



JOSEPH T. DUENAS  
Chairman



JOHN M. BENAVENTE, P.E.  
General Manager

Telephone Nos. (671) 648-3054/55 or Facsimile (671) 648-3165

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INVITATION FOR MULTI-STEP BID (IFMSB) NO.: GPA-068-18  
DESCRIPTION: Hazardous Materials Removal and Disposal for Tanguisson Power Plant and Dededo Diesel Power Plant

**SPECIAL REMINDERS TO PROSPECTIVE BIDDERS**

Bidders are reminded to read the Sealed Bid Solicitation and Instructions, and General Terms and Conditions attached to the IFMSB to ascertain that all of the following requirements checked below are submitted in the bid envelope. Bidders are required to submit one (1) original and five (5) bound copies of their unpriced technical proposal along with a sealed price proposal (separate envelope), including all addenda, if any, at the closing date and time.

- (XX) BID GUARANTEE (\$10,000.00 USD) May be in the form of; Reference #11 on the General Terms and Conditions
  - a. Cashier's Check or Certified Check (NOTE: Cashier's Check or Certified Check Refunds will be ONLY be made out to the name of the Bidder.)
  - b. Wire Transfer to Guam Power Authority;
  - c. Letter of Credit or
  - d. Surety Bond – Valid only if accompanied by:
    - 1. Current Certificate of Authority issued by the Insurance Commissioner;
    - 2. Power of Attorney issued by the Surety to the Resident General Agent;
    - 3. Power of Attorney issued by two (2) major officers of the Surety to whomever is signing on their behalf.
- (XX) STATEMENT OF QUALIFICATION;
- ( ) SAMPLES;
- ( ) BROCHURES/DESCRIPTIVE LITERATURE; (Shall provide detailed literature on items offered)
- (XX) AFFIDAVIT OF DISCLOSURE OF MAJOR SHAREHOLDERS;
- (XX) NON-COLLUSION AFFIDAVIT;
- (XX) NO GRATUITIES OR KICKBACKS AFFIDAVIT;
- (XX) ETHICAL STANDARDS AFFIDAVIT;
- (XX) WAGE DETERMINATION AFFIDAVIT;
- (XX) RESTRICTIONS AGAINST SEX OFFENDERS AFFIDAVIT;

Note: The above Affidavits must comply with the following requirements:

- a. The affidavit must be signed within 60 days of the date the bid is due;
- b. Date of signature of the person authorized to sign the bid and the notary date must be the same.
- c. First time affidavit must be an original – If copy, indicate Bid Number/Agency where original can be obtained.

(XX) OTHER REQUIREMENTS:

A Guam Business License and/or Contractor's License with proof of Employer Identification Number (EIN) is not required in order to provide a proposal for this engagement, but is a pre-condition for entering into a contract with the Authority. Bidders MUST comply with PL 26-111 dated June 18, 2002, PL 28-165 dated January 04, 2007 and Wage Determination under the Service Contract Act ([www.wdol.gov](http://www.wdol.gov)). Additionally, upon award the successful bidder must provide to GPA the most recently issued Wage Determination by the US Dept. of Labor.

The reminder must be signed and returned in the bid envelope together with the bid. Failure to comply with the above requirements will mean a disqualification and rejection of the bid.

On this \_\_\_\_\_ day of \_\_\_\_\_, 2018, I, \_\_\_\_\_, authorized representative of \_\_\_\_\_ acknowledge receipt of this special reminder to prospective bidders with the above referenced IFB.

\_\_\_\_\_  
Bidder Representative's Signature

**INVITATION FOR BID**

**ISSUING OFFICE:**

Guam Power Authority  
 Procurement Management Materials Supply  
 Gloria B. Nelson Public Service Building  
 688 Route 15, Mangilao, Guam 96913

*pu* JOHN M. BENAVENTE, P.E. DATE  
 General Manager

DATE ISSUED: 04/24/2018 MULTI-STEP  
05/01/2018 BID INVITATION NO.: GPA-068-18

BID FOR: Hazardous Materials Removal and Disposal for Tanguisson Power Plant and Dededo Diesel Power Plant

SPECIFICATION: See Attached

DESTINATION: See Attached

REQUIRED COMPLETION DATE: See Attached

**MANDATORY PRE-BID CONFERENCE: 9:30 A.M., Tuesday, May 08, 2018**  
 Meeting place will be at our GPA/GWA Procurement Office, Room 101, 1<sup>st</sup> Floor, Gloria B. Nelson Public Service Building, 688 Route 15, Fadian Mangilao.

**\*CUT-OFF DATE FOR RECEIPT OF QUESTIONS: 5:00 P.M., Tuesday, May 15, 2018**

**INSTRUCTIONS TO BIDDERS:**

INDICATE WHETHER:  INDIVIDUAL  PARTNERSHIP  CORPORATION

INCORPORATED IN: \_\_\_\_\_

Technical Proposal (Unpriced) and Price Proposal (Sealed Separately) shall be submitted in duplicate and sealed to the issuing office above no later than (Time) 4:00 P.M., Date: May 29, 2018. Technical Proposals (Sealed) submitted after the time and date specified above shall be rejected. See attached General Terms and Conditions and Sealed Bid Solicitation for details.

The undersigned offers and agrees to furnish within the time specified, the articles and services at the price stated opposite the respective items listed on the schedule provided, unless otherwise specified by the bidder. In consideration to the expense of the Government in opening, tabulating, and evaluating this and other bids, and other considerations, the undersigned agrees that this bid remain firm and irrevocable for a period of not less than six (6) months after the Proposal submittal date.

NAME AND ADDRESS OF BIDDER:

SIGNATURE AND TITLE OF PERSON  
 AUTHORIZED TO SIGN THIS BID:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

\_\_\_\_\_

AWARD: CONTRACT NO.: \_\_\_\_\_ AMOUNT: \_\_\_\_\_ DATE: \_\_\_\_\_

ITEM NO(S). AWARDED: \_\_\_\_\_

CONTRACTING OFFICER:

JOHN M. BENAVENTE, P.E. DATE  
 General Manager

NAME AND ADDRESS OF CONTRACTOR:

SIGNATURE AND TITLE OF PERSON

\_\_\_\_\_  
 \_\_\_\_\_

\_\_\_\_\_

INVITATION FOR MULTI-STEP BID NO.: GPA-068-18  
FOR  
HAZARDOUS MATERIALS REMOVAL AND DISPOSAL  
FOR  
TANGUISSON POWER PLANT AND DEDEDO DIESEL POWER PLANT



  
\_\_\_\_\_  
**JOHN J. CRUZ, JR., P.E.**

Assistant General Manager, Engineering and Technical Services

  
\_\_\_\_\_  
**JOHN M. BENAVENTE, P.E.**

General Manager

April 2018

Guam Power Authority  
P.O. Box 2977  
Hagatna, Guam 96932

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## 1. INTRODUCTION

The Guam Power Authority (GPA), hereinafter referred to as GPA, is inviting Technical Services Firms, hereinafter referred to as TSF or CONTRACTOR, to participate in a Multi-Step Bid for Hazardous Materials Mitigation (Removal and Disposal) for Tanguisson Power Plant and Dededo Diesel Power Plant.

This bid shall be a Two Step process. Step One will establish a Qualified Bidders List (QBL) based on acceptable submitted Proposals (or Unpriced Technical Offers). Step Two will evaluate the Priced Offers from the vendors identified on the QBL and award a contract. Step One is the period from IFMSB announcement through Notification of Qualified BIDDERS. Step Two is the period after completion of the Technical Proposal Evaluation and notification of the QBL of the contract award date.

GPA will qualify the BIDDERS based on their proposal and the Qualitative Scoring Worksheet. The BIDDERS selected will be notified and GPA will proceed with the second step of the bid process to open the sealed proposal price offers. GPA will perform a comprehensive evaluation of each proposal and select the BIDDER with the best proposal based on the submitted Price Proposal Worksheet. If the selected vendor cannot proceed with the contract, GPA may elect to 1) go to the next best BIDDER or 2) cancel the BID.

Table 1 indicates the anticipated milestones for the Bid process. GPA reserves the right to change the Bid process schedule at its sole discretion.

Milestone		From	To
Bid Announcement		04/24/2018	05/29/2018
Pre-Bid Conference / Site Visit (Mandatory)		05/08/2018; 9:30 A.M. (Chamorro Standard Time)	
Submission of Question		04/24/2018	05/15/2018
Cut-Off Date for Receipt of Questions		05/15/2018; 5:00 P.M. (Chamorro Standard Time)	
GPA Review and Answer Questions		04/24/2018	05/22/2018
Cut-Off Date for Receipt of Proposals (Technical and Price Proposals)		<b>05/29/2018; 4:00 P.M. (Chamorro Standard Time)</b>	
Bid Evaluation		05/30/2018	06/08/2018
Step One:	Determination & Notification of Qualified Bidders	06/11/2018	06/15/2018
Step Two:	Opening of Price Proposal	<b>07/03/2018; 2:00 P.M. (Chamorro Standard Time)</b>	
	Evaluation of Price Proposal	07/05/2018	07/12/2018
	Notification of Successful Bidder	07/13/2018	07/19/2018
Contract Approval		TBD	
Contract Commencement		TBD	

### 1.1 Invitation for Multi-Step Bid (IFMSB) Document Organization

Invitation for Multi-Step Bid documents is organized as follows:



- Technical Services for the Hazardous Materials Mitigation (Removal and Disposal)
- Appendices

**BIDDERS are reminded to submit the Cost/Price Data Sheet in a separate sealed envelope marked "PRICE PROPOSAL" for Step Two of the IFMSB process.**

## 1.2 Scope of Work

This scope of work (SOW) is a description of the services required for a Hazardous Material (HAZMAT) Removal and Disposal at the Tanguisson Power Plant and Dededo Diesel Power Plant. Should any factors require any deviations from the tasks as outlined in this SOW, the Contractor shall provide notification in writing before proceeding with work.

### 1.2.1 Hazardous Materials Removal and Disposal

The project shall include the Removal and Disposal of hazardous materials identified in the Hazardous Materials Survey Data Report for Tanguisson Power Plant, Appendix N and the Dededo Diesel Power Plant Appendix O, respectively. **IMPORTANT: The HAZMAT survey data report is not intended to serve as a project specification document. Actual site conditions and quantities must be field-verified, and therefore, shall be the basis of BIDDER'S priced proposal.**

### 1.2.2 Asbestos Containing Materials

The location of ACM materials is presented in Section 5.2 Summary of Findings, Appendix N for Tanguisson Power Plant. Asbestos removal shall be performed by a qualified and licensed asbestos abatement contractor in compliance with Federal, State and Local regulations pertaining to the removal of asbestos.

Regulatory Guidance: The abatement contractor must comply at a minimum with the requirements outlined in National Emission Standards for Hazardous Air Pollutants 40 CFR 61 and OSHA 29 CFR 1910.1001/1926.1101, including applicable regulations.

### 1.2.3 Lead-Based Paint

The location of LBP and LCP is presented in Section 6.2 Summary of Findings, Table 2, Appendix N for Tanguisson Power Plant and Section 6.2 Summary of Findings, Table 1, Appendix O for Dededo Diesel Power Plant. These Tables include a description of the tested components, location, paint color, and test results. X-ray fluorescence analyzers (XRF) readings above 0.0 mg/cm<sup>2</sup> are addressed as LCP and possible exposure hazard to workers under the OSHA Lead in Construction standard found at 29 CFR 1926.62.

Regulatory Guidance: Any removal actions for LBP structural materials should follow federal Resource Conservation and Recovery Act (RCRA) standards. The hazardous waste criterion for lead wastes is established under RCRA, Subtitle C, as 5.0 milligrams per liter (mg/L) measured with Toxicity Characteristic Leaching Procedure (TCLP).

#### **1.2.4 Polychlorinated Biphenyls**

Location of PCB is identified in Section 7.2 Summary of Findings, Table 3, Appendix N which provides a summary of light ballasts surveyed on each floor at the Tanguisson Power Plant. Ballasts without “No PCBs” labeling and manufactured prior to January 1979 were presumed to contain PCBs.

Regulatory Guidance: All suspect PCBs identified should be handled and disposed of in accordance with 40 CFR 761.50(b)(2)(ii) and 40 CFR 761.62(a)-(c).

#### **1.2.5 Mercury-Containing Sources**

Section 8.2 Summary of Findings, Appendix N identified 945 fluorescent light bulbs in varying lengths and 46 HID light bulbs at Tanguisson Power Plant. The specific number and locations of the fluorescent light tubes and HID light bulbs is listed in Table 6.

Regulatory Guidance: Transportation and disposal of all mercury-containing light sources should be conducted in accordance with 40 CFR 261 – 263.

#### **1.2.6 Containerized Hazardous Substances/Regulated Materials**

Section 9.2 Summary of Findings, Table 7 (Appendix N) and Table 2 (Appendix O), list a thorough inventory of containerized hazardous substances and other regulated materials identified at Tanguisson Power Plant and Dededo Diesel Power Plant.

Regulatory Guidance: All identified CHSM should be removed and properly disposed in accordance with any applicable federal, state, and local environmental and safety regulations.

\*\*\*NOTE: Bidder’s must provide a quote for ALL items to be eligible to participate in this IFMSB\*\*\*

### **1.3 Deliverables**

#### **1.3.1 Work Schedule**

The Contractor shall submit to GPA, for approval, a proposed work schedule with milestones, deliverables, and timelines. This work schedule shall be submitted no later than 1 week after issuance of the Notice to Proceed.

#### **1.3.2 Plans, Reports and other Documents**

The contractor shall prepare and submit all plans, reports, and documents required by this Scope of Work to GPA Planning and Regulatory for comments and review prior to finalization and submittal to GPA and Guam EPA. Contractor must be aware of the specific schedule

required for submittal of the reports. Ensure that GPA Planning and Regulatory are given ample time for review and comments and still meet the due dates for submittal.

The Contractor shall submit to GPA the following for review and approval:

- (A) HAZMAT Removal Work and Disposal Plan
- (B) Site Health and Safety Plan

Plans and report must be written in a manner required by GEPA or USEPA to ensure compliance with all applicable requirements and must be submitted to GPA no later than 1 week after issuance of the Notice to Proceed.

### **1.3.3 Deliverable and Work Products**

The deliverables and work products are established above in Section 1.3.2 and include the following:

- Work Schedule (with Milestones, Deliverable and Timelines)
- HAZMAT Removal Work, Handling and Disposal Plan
- Site Health and Safety Plan
- HAZMAT Removal, Handling and Disposal (Progress Report)
- HAZMAT Removal, Handling and Disposal (Final Report)

The contractor is expected to prepare and submit the above documents or plans to GPA in both hard copy and electronic file formats. Electronic files will be made with Adobe Acrobat 2015 or later. GPA may also request files formatted in Microsoft Office 2016 (or later) Applications (i.e. MS Word, Excel). Following submittal of these documents and plans, the contractor may be asked by GPA to make certain revisions or otherwise edit these materials. Following revision of these documents or plans, if necessary, the contractor will be required to resubmit three (3) hard copies and two (2) soft copies (on CD) of the Final Report to GPA within 10 days or earlier to ensure submittal, if required, to Guam EPA and USEPA within the required time frame. All deliverables must comply with applicable local, federal, and permit requirements.

### **1.3.4 General Requirements**

#### **1.3.4.1 Permitting Requirements**

The Contractor is responsible to apply for and obtain ALL necessary Permits and Certifications for this project.

### **1.3.4.2 Environmental Health & Safety Requirements**

The Contractor shall comply with Safety and Health Regulations for Construction, promulgated by the Secretary of Labor under Section 107 of the Contract Work Hours and Safety Standards Act, as set forth in Title 29, C.F.R. Copies of these regulations may be obtained from Labor Building, 14th and Constitution Avenue, NW, Washington, DC 20013. For these purposes, the Contractor shall comply with the provisions of the Federal Occupational Safety and Health Act, as amended.

Contractor must have a Hot Work permit before performing any cutting that involves the use of gas torch or welding equipment. Hot work permit must be updated daily.

During the cutting or welding the contractor must provide a fire watch and fire extinguishers at all times.

GPA Safety Division will make periodic checks regarding the use of proper PPE's, equipment, and permits.

All personnel who will be conducting the operation and/or handling contaminated material must be Hazardous Waste Operator (HAZWOPER) Certified.

### **1.3.4.3 Work-site Maintenance Requirements**

The electrical equipment such as transformers, capacitors, etc. and appurtenances such as pipes, tanks, etc. may still contain a small amount of oil. Before working on these items the contractor should place boom downstream of flow direction to pick up any oil that may spill.

Contractor must perform daily cleanup of slag from any cutting activity. Place plastic sheeting around work area to catch slag for easy cleanup.

The Contractor shall remove from the work premises any rubbish, tools, equipment, and materials that are not property of GPA. Upon completing the work, the Contractor shall leave the area clean, neat, and orderly.

### **1.3.4.4 Worksite Security Requirements**

Contractor should provide list of personnel who will enter Tangiuisson Power Plant and Dededo Diesel Power Plant. All personnel must have a valid ID to show the Security Guard before entering the premises.

No POV's are authorized inside the compound unless approved by the Authority.

## **1.4 Meetings**

Contractor personnel will attend and participate in up to two meetings with GPA. The Contractor will assist in confirming known environmental and operational hazard zones. These environmental issues will be listed by completed actions, items requiring further coordination, waivers, and needed

permits for the design documents related to future demolition at Tanguisson Power Plant and Dededo Diesel Power Plant.

## **Instructions to Bidders**

These instructions to bidders are intended to provide guidance in the preparation of bids and do not constitute part of the bid or of the contract document.

This is a Multi-Step Bid Procurement. In Step One, only the submitted Technical Proposals will be evaluated. In Step Two, the Price Offers based upon Technical Proposals that are determined to be acceptable, either initially or as a result of discussions, will be considered for award.

### **1.5 Correspondence**

#### **1.5.1 Language**

The official language of Guam is English. The bid and all accompanying documents shall be in English.

#### **1.5.2 Commercial and Technical Correspondence**

Any prospective BIDDER desiring an explanation or interpretation of the solicitation, commercial terms, Technical Specification, etc., must make a request in writing to GPA at the address listed below, referencing the Invitation for Multi-Step Bid No.: GPA-068-18

TO: JOHN M. BENAVENTE, P.E.  
GENERAL MANAGER  
GUAM POWER AUTHORITY  
POST OFFICE BOX 2977  
HAGATNA, GUAM 96932-2977

ATTENTION: JAMIE LYNN C. PANGELINAN  
SUPPLY MANAGEMENT ADMINISTRATOR  
PHONE: 1 (671) 648-3054/55  
FAX: 1 (671) 648-3165

### **1.6 Examination of Technical and Functional Requirements and Tender Documents**

Before submitting their proposal, BIDDERS must familiarize themselves with the nature and extent of the work, duly noting any local conditions that may affect the work to be done and the labor, materials, and equipment required.

BIDDERS are also required to carefully examine all tender documents inclusive of all technical and functional requirements and to inform themselves of all conditions and requirements for the execution of the proposed work. Ignorance on the part of BIDDERS of any part of the tender

documents and Technical and Functional Requirements will in no way relieve them of the obligations and responsibilities assumed under the contract.

### **1.7 Solicitation Amendment**

Any amendment, modification or addendum issued by the Guam Power Authority, prior to the opening of the proposals, for the purpose of changing the intent of the Technical and Functional Requirements, clarifying the meaning or changing any of the provisions of this Invitation for Bid, shall be binding to the same extent as if written in the tender documents.

Any addendum issued will be made available to all BIDDERS via mail, fax, e-mail or posting to the GPA Website at [www.guampowerauthority.com](http://www.guampowerauthority.com).

### **1.8 Familiarity with Laws**

The BIDDER shall be familiar with all Federal (U.S.) and local laws, ordinances, rules and regulations of Guam that in any manner affect the work. Ignorance of law on the part of the BIDDER will not relieve the BIDDER from responsibility.

### **1.9 Cost of Bidding**

BIDDERS shall bear all costs associated with the preparation and submission of its proposal. GPA will not be responsible or liable for those costs, regardless of the outcome of the IFMSB process.

### **1.10 Basis of Price/Cost Data Furnished with Technical Proposals**

The Vendors are required to submit their price offers as found in Appendix L along with their technical proposals in a separate sealed envelope marked "PRICE PROPOSAL" and indicating the date and time of bid package remittance.

### **1.11 Price/Cost Data**

BIDDERS shall provide prices/costs in U.S. Dollars. The Price/Cost Data Sheet is contained in Appendix L.

### **1.12 Site Visit**

The Site Visit date is indicated in Table 1: Milestone. All prospective BIDDERS are encouraged to attend the Site Visit. Attendance shall be at the BIDDERS' own expense. BIDDERS wishing to attend shall meet at the GPA Procurement Conference Room at the time specified before proceeding to the potential project sites at Tanguisson Power Plant and Dededo Diesel Power Plant. The attendance is mandatory or required to participate in this Multi-Step Bid.

### **1.13 Documents Executed Outside Guam**

The Power of Attorney, performance bond guarantee, and documents defining the constitution of the joint venture, consortium, company or firm, if executed outside Guam, whether required to be

submitted with the proposals or after the award of the contract, must be authenticated by a Notary Public or other official authorized to witness sworn statements.

#### 1.14 Step One Procedure

#### 1.15 Submission of Bids

##### 1.15.1 Proposal Contents

Each Proposal shall contain a complete and clear description of the proposed Firm/Fixed Price Contract, BIDDER management organization allocated for the CONTRACT, technologies, methodologies, and warranty and all resources at its disposal that the BIDDER will use to meet all functional requirements as set forth in the tender documents. Each proposal shall include the following:

- Cover and proposal checklist forms defined in Appendix A;
- Responses and supporting information meeting established criteria;
- Completed Price/Cost Data Sheet in a separate sealed envelope marked "PRICE PROPOSAL"; and
- Supplementary information described below.

Each proposal shall be submitted in the format and quantities outlined elsewhere.

##### 1.15.1.1 Technical Proposal Evaluation Criteria

The evaluation format is a two-step process. In the first step, GPA evaluates each BIDDER'S qualifications and non-priced proposal for quality, reasonableness, completeness and applicability towards GPA's business needs and goals. During the evaluation process, GPA shall score each BIDDERS'S submittal and rank each from most acceptable to least acceptable. GPA may choose to select one, any or none of the BIDDERS for the second step in the procurement process.

##### **Evaluation Criteria and Proposal Scoring:**

The following details the step one evaluation criteria form and step two final evaluation results form. GPA will convene a committee of no less than three people. These people will elect a committee chairperson.

##### **Scoring and evaluation shall occur in two steps:**

##### **Step 1: Individual Committee Member Evaluation and Scoring of Proposal**

Each committee member will score each BIDDER'S proposal using the *Step One Evaluation Form* with 5 points as the maximum score and by multiplying it to the raw score weight will get the weighted score for each evaluation factor. The weighted scores will be totaled to determine the evaluation scores for each bidder then proceed to Step 2.

Evaluation Criteria:	Weight:
Knowledge & Understanding of Project	150 points
Experience of Firm	200 points
Experience of Key Personnel	350 points
Cost Effectiveness and Efficiency	200 points
Coordination and Compliance to Regulations	200 points

### **Step 2: Evaluation of Bidder Qualifications**

After all the proposals have been scored under Step 1, the Committee Chair will request the Committee to evaluate on Step 2 under Individual Scope Scoring.

Each committee member will rank each proposal from highest weighted to lowest score using the *Step Two Evaluation Form*. Total points will be gathered and will be categorized as A = Acceptable if rating is greater than or equal to 880 points; PA = Potential Acceptable if score is greater than or equal to 825 points and U=Unacceptable if score is less than 825 points for each bidder.

#### **1.15.1.2 Supplementary Information**

Each BIDDER shall submit with their proposal all the supplementary information required by the tender documents. The information submitted must be in sufficient detail and clarity to permit a complete comparison of the proposal with the Technical Specifications. The supplementary information included with each Proposal shall include the following:

1. A sufficient number of drawings, diagrams, catalogs, illustrations, and such other information as necessary to clearly support responses to the Qualitative requirements.
2. Three or more client references and project description summaries for work performed under similar scope to this project.

Submittal of the following supplementary information is mandatory. **GPA shall automatically disqualify any proposal submitted without the supplementary information listed below:**

3. A copy of the BIDDER's Articles of Incorporation or other applicable forms concerning business organization (i.e. partnership, sole proprietorship, etc.) and By-Laws;
4. Affidavit of Disclosure of Major Shareholder (Appendix D);
5. Certificate of Good Standing to conduct business in jurisdiction of residence;
6. Non-collusion Affidavit (Appendix E);
7. No Gratuities or Kickbacks Affidavit (Appendix F);



8. Ethical Standards Affidavit (Appendix G);
9. Declaration Re-Compliance with U.S. DOL Wage Determination (Appendix H);
10. Restriction against Sex Offenders Employed by Service Providers to Government of Guam from Working on Government of Guam Property (Appendix J);
11. Information regarding outstanding claims against the BIDDER, if any; and,
12. Bid Bond (Appendix I)
13. Total Bid Cost (Appendix L) MUST be submitted in a Separate sealed envelope marked "Price Proposal".

## **1.15.2 Proposal Submittal**

### **1.15.2.1 Submittal**

BIDDERS shall submit all required documents to the GPA Procurement Office, Room 101, 1<sup>st</sup>. Floor, Gloria B. Nelson Public Service Building, Fadian, Mangilao, Guam.

### **1.15.2.2 Non-repudiation Issues**

GPA has structured its submittal procedure to ensure non-repudiation of the submitted proposals. In this IFMSB, non-repudiation is strong and substantial evidence of the identity of the sender and owner of the proposal and of proposal's integrity in so far as it being unaltered from its original sent state, sufficient to prevent a party from successfully denying the origin, submission or delivery of the proposal and the integrity of its contents. Non-repudiation applies to both parties to this IFMSB transaction. It binds the sender as well as precludes the recipient from denying the exchange of information and material upon the receipt of secure acknowledgement from the recipient.

GPA and the BIDDER shall manage the Submittal Process to address non-repudiation, security and confidentiality inclusive but not limited to the following:

- Manually executed signatures and printed media documents;
- Chain of custody receipts;
- Manual time-stamps for receipt of IFMSB materials;
- Machine generated Fax confirmation reports;
- Secure notification e-mail;
- Electronic Postings on the guampowerauthority.com domain;
- Physical delivery of printed material proposals;
- Physically secured area storage of IFMSB materials.

### **1.15.2.3 Signature of BIDDER**

A duly authorized person must sign the BIDDER's proposals. All names shall be typed or printed below the signature. A proposal submitted by a corporation must bear the seal of the corporation, be attested to by its Secretary, and be accompanied by necessary Power of Attorney documentation.

Associated companies or joint ventures shall jointly designate one Power of Attorney person authorized to obligate all the companies of the association or joint venture. A proposal submitted by a joint venture must be accompanied by the document of formation of the joint venture, duly registered and authenticated by a Notary Public, in which is defined precisely the conditions under which it will function, its period of duration, the persons authorized to represent and obligate it, the participation of the several firms forming the joint venture, the principal member of the joint venture, and address for correspondence for the joint venture. BIDDERS are advised that the joint venture agreement must include a clause stating that the members of the joint venture are severally and jointly bound.

Wherever a legal signature is required, receipt of an electronic signature will suffice to meet the submittal deadline for those electing to use the Electronic Proposal Submittal process. The original signed documents must be reproduced electronically and be placed in the submitted compressed archive file. However, the original documents must be sent to GPA via post or courier and post-marked no later than the bid-opening date. In addition, GPA will accept an electronic scanned copy of Notarized documents with the compressed archive submitted will suffice to meet the proposal deadline. However, the original documents must be sent to GPA via post or courier and post-marked no later than the bid-opening date.

### **1.15.2.4 Submittal Package Format and Handling**

This section describes the proposal package format and content required by GPA that is specific to manual submittal of proposals. The IFMSB Proposal Submittal Process is characterized by a preponderance of the submitted material in tangible printed media form that is hand-delivered by an authorized agent of the BIDDER to an authorized agent of the Guam Power Authority. Both the BIDDERS and GPA agents are live human beings. In addition, both parties perform non-repudiation of the proposal through the execution of manually executed signatures, seals and time stamps.

BIDDERS are required to submit one original and five (5) bound copies of their technical proposal along with a sealed Price Proposal.

### **1.15.2.5 Marking and Packaging of Proposals**

As a general rule, the manually submitted Proposals shall be submitted in separate sealed packages with the following information clearly marked on the outside of each side:

- 1) "TECHNICAL (UNPRICED) PROPOSAL" OR "PRICE PROPOSAL"

- 2) "HAZARDOUS MATERIALS REMOVAL AND DISPOSAL";
- 3) The BIDDER's Name;
- 4) INVITATION FOR BID NUMBER;
- 5) CLOSING DATE and TIME (Chamorro Standard Time).
- 6) Addressed as follows:

ATTENTION: JOHN M. BENAVENTE, P.E.  
 GENERAL MANAGER  
 GLORIA B. NELSON PUBLIC SERVICE BUILDING  
 688 ROUTE 15, SUITE 100  
 MANGILAO, GUAM 96913

### **1.15.2.6 Receipt and Handling of Manually Submitted Proposals**

Upon receipt, each Proposal submittal package will be time stamped. The only acceptable evidence to establish the time of receipt at the GPA is the date/time stamp of the Guam Power Authority's procurement office on the wrapper or other documentary evidence of receipt maintained by GPA. Proposals will be stored in a secure place until the date and time set for proposal opening.

GPA procurement personnel and the BIDDERS must ensure that the outside of the sealed package is stamped received using the GPA Procurement Stamp. In addition, GPA procurement personnel must officially log the time and date that the BIDDER's sealed proposal package has been received.

### **1.15.3 Submittal Closing Date**

The Technical Qualification Proposal submittal closing date is indicated in Table 1 Bid Milestone. Submitted proposals will be opened at this time which will initiate the proposal evaluation process. No proposals shall be accepted after the proposal submittal closing date.

### **1.15.4 Proposal Changes During Bid Process**

Changes may be made to the Technical Proposal(s) prior to the proposal submittal due date.

#### **1.15.4.1 Discussions of Proposals**

GPA may conduct discussions with any BIDDER to determine such BIDDERS qualifications for further consideration and explore with the BIDDER the scope and nature of the required services, method of performance and the relative utility of alternative methods of approach. During the course of such discussions, the Procurement Officer shall not disclose any information derived from a technical offer to any other BIDDER.

Each BIDDER is requested not to contact GPA on any matter relating to its proposal, from the time of submission of the Proposals to the time the contract is awarded, except to respond to inquiries by GPA.

#### **1.15.4.2 Notice of Unacceptable Proposal**

A notice of unacceptability will be forwarded to the BIDDER upon completion of the Technical Proposal evaluation and final determination of unacceptability. When the Procurement Officer determines a BIDDER's unpriced technical offer to be unacceptable, such BIDDER shall not be afforded an additional opportunity to supplement its technical offer.

#### **1.16 Step Two Procedure**

Upon completion of evaluation of Technical Proposals, qualified bidders will be notified and GPA will proceed with the Step Two of the multi-step bid.

##### **1.16.1 Request for Price Proposal/Offer and Performance Guarantees**

Each selected BIDDER from the Qualified Bidders list will be notified and GPA will open their submitted Price Offer. GPA will select a vendor based on a comprehensive evaluation of the price offer.

###### **1.16.1.1 Proposal Changes During Bid Process**

Changes may be made to the Price Offer prior to the proposal submittal due date.

###### **1.16.1.2 Proposal Validity**

All price/cost data submitted with the BIDDERS' proposals shall remain firm and open for acceptance for a period of not less than six (6) months after the Proposal submittal date defined elsewhere and thereafter shall be subject to renewal by mutual agreement between the BIDDER and GPA. BIDDER shall state the actual date of expiration in their proposal.

###### **1.16.2 Preliminary Examination of Priced Offer**

GPA will examine the Priced Offer on the opening date to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the Priced Offers are generally in order.

Arithmetical errors will be rectified on the following basis. If there is discrepancy between the unit price and the total price, including any discounts, that is obtained by multiplying the unit priced and quantity, the unit price shall prevail and the total price shall be corrected. If the Bidder does not accept the correction of the error, its bid will be rejected. If there is a discrepancy between words and figures, the amount in words will prevail.

### **1.16.3 Evaluation Criteria and Comparison of Priced Offers**

GPA will evaluate and compare the Priced Offers for Bidder's Technical Proposals that were determined during Step One to be responsive to the tender document requirements.

## **1.17 General Proposal Guidelines and Requirements**

### **1.17.1 Amendments to the Bid Documents**

GPA may elect to change the IFMSB documents in whole or part. GPA shall send all Amendments to the IFMSB documents via fax and/or e-mail. In addition, GPA will make all Amendments available on the Internet at [http://guampowerauthority.com/gpa\\_authority/procurement/gpa\\_current\\_rfps.php](http://guampowerauthority.com/gpa_authority/procurement/gpa_current_rfps.php).

### **1.17.2 Proprietary Data**

For the purposes of this solicitation and submitted proposals, the laws, rules and regulations of Territory of Guam governing confidentiality shall govern. BIDDERS may designate those portions of the Proposal that contain trade secrets or other proprietary data that are to remain confidential.

The Procurement Officer or his designee shall examine the proposals to determine the validity of any request for nondisclosure of trade secrets and other proprietary data identified in writing. If the BIDDER and GPA do not agree as to the disclosure of data, the Procurement Officer or his designee shall inform the BIDDER in writing and in e-mail within five working days of the closing date for Proposal submittal what portions of the Proposal will be disclosed and that, unless the BIDDER protests under the Conditions of Contract Disputes clause the information will be so disclosed. The proposal shall be opened to public inspection subject to any continuing prohibition of the disclosure of confidential data.

### **1.17.3 Acceptance of Proposals**

GPA reserves the right to reject any or all proposals and to waive minor informalities if it appears in GPA's best interest to do so.

Any effort by a BIDDER to influence GPA in the proposal evaluation, proposal comparison or contract award decisions may result in the rejection of the proposal. Once GPA has arrived at a decision regarding the award of the contract, it will notify promptly the successful BIDDER in writing.

### **1.17.4 Solicitation Cancellation or Delay**

The Guam Power Authority reserves the right to delay award or to cancel the Invitation for Bid, or to reject all proposals or any individual proposal in whole or in part, at any time prior to the final award. When a bid is canceled or rejected prior to final award, notice of cancellation or rejection shall be sent to all BIDDERS and all proposal materials will be promptly returned. The

reasons for cancellation or rejection shall be made a part of the procurement file that is available for public inspection.

After opening, but prior to award, all proposals may be rejected in whole or in part when the Procurement Officer or his designee determines that such action is in the Territory's best interest for reasons including but not limited to:

- a) The supplies and services being provided are no longer required;
- b) The solicitation did not provide consideration of other factors of significance to the Territory;
- c) All otherwise acceptable proposals received have clearly unreasonable price/cost data;
- d) There is reason to believe that the proposals may not have been independently arrived at in open competition, may have been collusive and may have been submitted in bad faith;

Any individual proposal may be rejected in whole or in part when in the best interest of the Territory.

#### **1.17.5 Disqualification of BIDDER**

When, for any reason, collusion or other anticompetitive practices are suspected among BIDDERS, a notice of the relevant facts shall be transmitted to the Guam Attorney General. BIDDERS suspected of collusion or other anticompetitive practices may be suspended or debarred from participating in future procurement opportunities for a specified period.

#### **1.17.6 False Statements in Proposal**

BIDDERS must provide full, accurate, and complete information as required by this solicitation and its attachments. The penalty for making false statements in any proposal or bid is prescribed in 18 U.S.C. 1001 and Title 9, Guam Code Annotated. Note, by use of a digital signature to sign the proposal, the BIDDER agrees that this act legally binds the BIDDER to his proposal.

#### **1.17.7 Prohibition Against Gratuities, Kickbacks, and Favors to the Territory**

Pursuant to GCA 5 Section 5630 (c), this clause is conspicuously set forth to alert all parties in this procurement that *Guam Public Law Title 5 § 5630. Gratuities and Kickbacks* prohibits against gratuities, kickbacks and favors to the Territory.

#### **1.17.8 Restriction against Contractors Employing Convicted Sex Offenders from Working at Government of Guam Venues**

GCA 5 §5253(b) restricts the PROPONENT against employing convicted sex offenders from working at Government of Guam venues. It states:

(b) All contracts for services to agencies listed herein shall include the following provisions: (1) warranties that no person providing services on behalf of the contractor has been convicted of a sex offense under the provisions of Chapter 25 of Title 9 GCA or an offense as defined in Article 2 of Chapter 28, Title 9 GCA, or an offense in another jurisdiction with, at a minimum, the same elements as such offenses, or who is listed on the Sex Offender Registry; and (2) that if any person providing services on behalf of the contractor is convicted of a sex offense under the provisions of Chapter 25 of Title 9 GCA or an offense as defined in Article 2 of Chapter 28, Title 9 GCA or an offense in another jurisdiction with, at a minimum, the same elements as such offenses, or who is listed on the Sex Offender Registry, that such person will be immediately removed from working at said agency and that the administrator of said agency be informed of such within twenty-four (24) hours of such conviction.

### **1.18 Award of Contract**

The contract will be awarded to the BIDDER evaluated as being qualified and with the best-priced proposal.

The successful BIDDER will be notified in writing (letter or e-mail or fax) of the intent to award the contract, and will be required to send to Guam, within ten (10) days of the date of receipt of such notice, a representative or representatives with proper Power of Attorney for the purpose of executing a contract with such alterations or additions thereto as may be required to adopt such contract to the circumstances of the proposal.

The successful BIDDER shall provide the required Performance Bond within fourteen days of receipt of the GPA Notice of Intent to Award.

Failure on the part of the successful BIDDER to provide a Performance Bond and/or to enter into a contract with GPA shall be sufficient grounds for the annulment of the award. The negotiations may then be resumed with the next most qualified BIDDER.

### **1.19 Bid and Performance Bond Requirements**

#### **1.19.1 Performance Bond**

A 15% Performance Bond is required, which must be submitted when the vendor is awarded the project. If the vendor is unable to submit the performance bond within fourteen (14) days after intent of award notification, GPA will then award the project to the next most qualified vendor.

Performance Bond Required: Good and sufficient bonds, in the penal sum of 15% of the estimated amount of the Contract, with a surety company satisfactory to OWNER, will be required from all Contractors guaranteeing that the Contract will be faithfully performed; that

CONTRACTOR will save OWNER harmless on account of all claims for damage to persons, property or premises arising out of his/her operations prior to the acceptance of the finished work; and that he will promptly make payment to all persons supplying him/her labor, materials, supplies and services used directly or indirectly by CONTRACTOR in the prosecution of the work provided for in the Contract. In the event the surety company becomes unsatisfactory to OWNER, it may, in its discretion, require from CONTRACTOR an additional or new bond in the same or lesser penal sum, satisfactory to it, and to be conditioned as above required.

Upon CONTRACTOR's failure to furnish such additional or new bond within ten (10) days from the date of written notice to do so, all payments under this Contract will be withheld until such additional bond is furnished.

### **1.19.2 Requirement for Performance Bond Execution by a Guam Licensed Surety Company**

The TSF shall provide a Performance Bond executed by a surety company licensed to do business on Guam. A list of surety companies licensed to do business on Guam is provided in Appendix C.

### **1.19.3 Bid Bond Form and Amount**

A bid bond for an amount of \$10,000.00 (USD) is required and may be in the following form:

- a. Cash, Bank Draft or Certified Check made payable to the Guam Power Authority;
- b. By wire transfer to Guam Power Authority, Account No. 0601-026246, Routing No. 121405115, Bank of Guam, 111 Chalan Santo Papa Street, Hagatna, Guam 96910, Mailing Address: P.O. Box BW, Hagatna, Guam 96910
- c. Letter of Credit;
- d. Surety Bond – valid if accompanied by:
  - (1) Current Certificate of Authority to do business on Guam issued by the Department of Revenue and Taxation;
  - (2) Power of Attorney issued by the Surety to the Resident General Agent; and
  - (3) Power of Attorney issued by two (2) major officers of the Surety to whoever is signing on their behalf.

Bonds, submitted as Bid Guarantee, without signatures and supporting documents are invalid and bids will be rejected.

If a BIDDER desires to submit a bid bond with an acceptable bonding company, the BIDDER must submit original copies of Appendix I.

### **1.18.4 Required Forms and Supplemental Information**

GPA shall automatically disqualify any proposal submitted without the supplementary information and required forms listed below:

- Certificate of Good Standing to conduct business in jurisdiction of residence;



- Information regarding outstanding claims against the BIDDER, if any;
- Required affidavits (Major Shareholders Disclosure; Non Collusion; Declaration Regarding Compliance with DOL Wage Determination; No Gratuities or Kickbacks; Ethical Standards Affidavit; Restriction Against Sex Offenders Employed by Service Providers to Government of Guam from Working on Government of Guam Property)
- Proposal Checklist
- Bid Bond
- A current Guam Business License. Although it is not required in order to provide a Bid for this engagement, obtaining a Guam Business License with proof of Employer Identification Number (EIN) is a pre-condition for entering into a contract with the Authority.

The following forms will be available on the GPA Website's Procurement Page, Appendices A, D, E, F, G, H, I and J must be completed:

- Appendix A: Proposal Checklists
- Appendix B: Performance Bond
- Appendix C: List of Surety Companies Licensed to Do Business in Guam
- Appendix D: Major Shareholders Disclosure Affidavit
- Appendix E: Non-collusion Affidavit
- Appendix F: No Gratuities or Kickbacks Affidavit
- Appendix G: Ethical Standards Affidavit
- Appendix H: Declaration Re Compliance with U.S. DOL Wage Determination
- Appendix I: Bid Bond Form and Instructions
- Appendix J: Restriction Against Sex Offenders Employed by Service Providers to Government of Guam from Working on Government of Guam Property
- Appendix K: Local Procurement Preference Application
- Appendix L: Total Bid Cost

## 1.20 Technical Proposal Forms

The following referenced forms are contained in Appendix A, Appendix D, Appendix E, Appendix F, Appendix G, Appendix H, Appendix I and Appendix J shall be completed and submitted with the Proposal.

**1.20.1 Document Receipt Checklist**

The BIDDER shall complete Form A 1 by initialing the Invitation for Bid Documents received from Guam Power Authority, including the latest IFMSB Amendment received. This Form is an acknowledgement of receipt, review and understanding of the IFMSB documents.

**1.20.2 Proposal Submittal Checklist**

The BIDDER shall complete Form A 2. This Form provides an inventory of documents submitted by the BIDDER in response to the Proposal requirements.

**1.20.3 Major Shareholders Disclosure Affidavit**

The BIDDER shall fill out the Major Shareholders Disclosure Affidavit form in Appendix D and submit it with its Proposal.

**1.20.4 Non-collusion Affidavit**

The BIDDER shall fill out the Non-Collusion Affidavit form in Appendix E and submit it with its Proposal.

**1.20.5 No Gratuities or Kickbacks Affidavit**

The BIDDER shall fill out the No Gratuities or Kickbacks Affidavit Form in Appendix F and submit it with its Proposal.

**1.20.6 Ethical Standards Affidavit**

The BIDDER shall fill out the Ethical Standards Affidavit Form in Appendix G and submit it with its Proposal.

**1.20.7 Bid Bond Form**

As stated in section 2.14.3, if a BIDDER desires to submit a bid bond with an acceptable bonding company, the BIDDER must submit original copies of Appendix I.

**1.20.8 Local Procurement Preference Application**

The BIDDER may fill out and sign the Local Procurement Preference Application in Appendix K and submit it with the Technical Proposal. Bidders/Offerors not completing this form will automatically be not considered for Local Procurement Preference. Non-completion of this form is not a basis for rejection of the bid or proposal.

**1.20.9 Restriction Against Sex Offenders**

The BIDDER shall complete the form, Restriction against Sex Offenders Employed by Service Providers to Government of Guam from Working on Government of Guam Property in Appendix J and submit it as part of the Technical Proposal.

**1.21 Price Proposal Form**

**1.21.1 Total Bid Cost Sheet (Appendix L)**

The qualified BIDDERS shall complete the Total Bid Cost Sheet (Appendix L).

Must be submitted in a separate sealed envelope marked "Price Proposal".

## **2. CONDITIONS OF CONTRACT**

### **2.1 Definitions**

Wherever used in these General Conditions or in the other Contract Documents, the following terms have the meanings indicated which are applicable to both the singular and plural thereof.

#### **2.1.1 Approved**

The word "Approved," when applied by ENGINEER to CONTRACTOR's drawings or documents shall mean that the drawings or documents are satisfactory from the standpoint of interfacing with GPA furnished components, and/or that ENGINEER has not observed any statement or feature that appears to deviate from the Specification requirements.

#### **2.1.2 Approved as Revised**

The words "Approved as Revised," when applied by ENGINEER to CONTRACTOR's drawings or documents shall mean that the drawings or documents are approved as defined above, except that the corrections shown are required for the proper interfacing with GPA furnished components or are necessary to be in conformance with the Specification's requirements.

#### **2.1.3 Change Order**

A written instrument to CONTRACTOR signed by GPA authorizing an addition, deletion, or revision in the services, or an adjustment in the purchase order price or the delivery time, issued after the effective date of the Contract Agreement (Agreement).

#### **2.1.4 Seller**

The CONTRACTOR

#### **2.1.5 Day**

A calendar day of twenty-four (24) hours measured from midnight to the next midnight

#### **2.1.6 Delivery Time**

The total number of days or the dates stated in the Agreement for furnishing the Services.

#### **2.1.7 Defective**

An adjective which when modifying the words Services refers to Services which are unsatisfactory, faulty, deficient, do not conform to the Contract Documents, or do not meet the requirements of any inspection, reference standard, test, or approval referred to in the Contract Documents.

**2.1.8 Effective Date of the Contract Agreement**

The date indicated in the Purchase Agreement on which it becomes effective, or if no such date is indicated, the date by which the Purchase Contract is signed by both parties.

**2.1.9 Engineer**

Wherever the words "ENGINEER" or "ENGINEERS" appear in the CONTRACT Documents, it shall mean GPA's engineer duly appointed as "ENGINEER". GPA shall assign several ENGINEERS as required to cover specialized areas of expertise.

**2.1.10 Engineer's Instructions**

Written instructions issued by ENGINEER which clarify or interpret the CONTRACT Documents or order minor changes or alterations in the Services to be furnished but which do not involve a change in the Purchase Price or the Delivery Time.

**2.1.11 General Manager**

The General Manager is the Chief Executive Officer of the Guam Power Authority. The office and title of General Manager shall apply to any person acting in a regular or in an acting capacity as the Chief Executive Officer of the Guam Power Authority.

**2.1.12 Modification**

A written amendment of the Purchase Agreement signed by both parties, or Change Order, or ENGINEER's Instructions.

**2.1.13 Owner**

The Guam Power Authority (An autonomous instrumentality of the Government of Guam).

**2.1.14 Purchaser**

The Guam Power Authority with whom CONTRACTOR has entered into the Contract Agreement.

**2.1.15 Contract Agreement (Agreement)**

The written agreement between GPA and CONTRACTOR covering services in connection therewith evidencing what is contemplated and agreed to between the parties including any other Contract Documents either attached to the Agreement or made a part thereof by reference therein.

**2.1.16 Contract Documents**

The Contract Agreement, Bonds (where required), these General Conditions, any Supplementary Conditions, the Specifications, the Drawings and any other documents specifically identified in

the Contract Agreement, together with all Modifications issued after execution of the Contract Agreement.

#### **2.1.17 Procurement Officer**

The General Manager of the Guam Power Authority or the General Manager's designee.

#### **2.1.18 Contractor**

The TSF with whom GPA has entered into the Contract Agreement.

#### **2.1.19 Site**

The SITE is the area where the Services is to be executed

#### **2.1.20 Territory**

The Territory of Guam.

### **2.2 Agreement**

Prior to entering into a formal agreement, GPA and CONTRACTOR shall resolve and document any differences between the CONTRACTOR's proposal and the tender documents.

The Agreement between GPA and CONTRACTOR shall consist of the tender documents, as resolved by the CONTRACTOR's final negotiated Proposal and by GPA amendments, and the CONTRACTOR's proposal, as adjusted by a prioritized list of documents generated during the evaluation and negotiation processes and agreed to and acknowledged in writing by both parties. These documents may consist of, but are not limited to, written answers to questions, letters, and written clarifications to the proposal.

Any formal contract document shall reference GPA tender documents and the CONTRACTOR's proposal. No oral understanding or statement shall modify the Agreement. Changes to the above documents can only be made in accordance with the procedure for modifications as defined in **Section 4.15 Changes**.

The resolved tender documents shall take priority over and shall govern in all cases of conflict with the adjusted proposal. The CONTRACTOR's contractual obligation shall be to fulfill all requirements of the tender documents, as resolved, and to provide all features of the CONTRACTOR's proposal, as adjusted.

The tender documents are intended to be complementary, what is called for by one shall be as binding as if called for by all. If not otherwise specified in the tender documents, these General Conditions shall apply. If, during performance of the Agreement CONTRACTOR detects a discrepancy in the tender documents, CONTRACTOR shall so report to ENGINEER in writing at once and shall obtain a written interpretation or clarification from ENGINEER before proceeding further; however, CONTRACTOR shall not be liable to GPA for failure to report any conflict, error, or discrepancy in the

Contract Documents unless CONTRACTOR had actual knowledge thereof or should reasonably have known thereof.

All materials, equipment, and services that may reasonably be inferred from the tender documents, as being required to produce the intended result will be supplied whether or not specifically called for. When words that have a well-known technical or trade meaning are used to describe materials, equipment, or services, such words will be interpreted in accordance with such meaning. Reference to standard specifications, manuals, or codes of any technical society, organization or association, or to the code of any Governmental authority, whether such reference be specific or by implication, shall mean the latest standard specification, manual, or code in effect on the effective date of the Agreement except as may be otherwise specifically stated in the Specification or Agreement. ENGINEER as provided in **Section 4.1.10 ENGINEER's Instructions** shall issue clarifications and interpretations of the tender documents.

### 2.3 Indemnity

CONTRACTOR shall indemnify and hold GPA and ENGINEER harmless from any claim, liability or product liability, loss, damage, demand, cause of action or suit, expense, or fee of legal counsel arising out of or in connection with the Services provided by the CONTRACTOR.

All goods will be delivered at the point of delivery set forth in the Purchase Contract. CONTRACTOR shall select the means and methods of transportation. All charges necessary to effect shipment to the point of delivery, including but not limited to export packing, switching, trucking, lighter age, and special handling will be paid by CONTRACTOR.

GPA and/or ENGINEER reserve the right to inspect the Goods upon delivery for the purpose of identifying the Goods and general verification of quantities.

### 2.4 Accounting

For accounting purposes and for use in establishing property records, GPA may require CONTRACTOR to provide a reasonable price breakdown of the total price into separate prices applying to the individual items supplied under the Agreement.

Where the Agreement covers the reimbursement of the traveling or living expenses of the CONTRACTOR's employees or agents, the CONTRACTOR agrees to furnish complete itemization and breakdowns of such expenses when requested by GPA.

In the event of any changes to or termination of the Agreement, or services on a labor hour or a cost reimbursable basis, CONTRACTOR shall supply information in such detail as may be reasonably required by GPA to support all applicable charges. GPA, or an independent auditor designated by GPA, shall have the right to audit, during normal working hours, CONTRACTOR's accounts and records relating to such charges. The expense of such audit will be borne by GPA.

## 2.5 Waiver of Claims

The making and acceptance of final payment will constitute:

A waiver of all claims by GPA against CONTRACTOR, except claims arising from unsettled liens, claims relative to defective services appearing after final payment, or from failure to comply with the Contract Documents or the terms of any special guarantees specified therein; nor will final payment constitute a waiver by GPA of any rights in respect of CONTRACTOR's continuing obligations under the Procurement Documents; and

A waiver of all claims by CONTRACTOR against GPA other than those previously made in writing and still unsettled.

## 2.6 Supervision and Coordination by Contractor

CONTRACTOR shall competently and efficiently manage, supervise, and direct the execution of services.

CONTRACTOR shall designate, in writing to GPA, a person with authority to act on behalf of CONTRACTOR with respect to CONTRACTOR's obligations under the CONTRACT Documents, and all communications given to or received from that person will be binding on CONTRACTOR.

CONTRACTOR shall perform all such activities as an independent contractor and not as an agent of GPA. When others furnish materials and equipment for assembly by the CONTRACTOR, CONTRACTOR shall receive, unload, store, and handle it and become responsible therefore as though CONTRACTOR was furnishing such materials and/or equipment under the Agreement.

## 2.7 Documentation

The Agreement will not be deemed satisfactorily completed until all requirements have been complied with including, but not limited to, proper material documentation and other requirements stated in the Contract Documents. GPA may withhold final payment hereunder, pending completion of all such requirements by the CONTRACTOR.

## 2.8 Continuing Performance

CONTRACTOR shall continue its performance under the Agreement during all claims, disputes, or disagreements with GPA. The execution of services shall not be prejudiced, delayed, or postponed pending resolution of any claims, disputes, or disagreements, except as CONTRACTOR and GPA may otherwise agree in writing.

GPA and/or its designee shall be allowed reasonable access to CONTRACTOR's and its subcontractor's works for the purpose of expediting project progress. Any expediting done by GPA shall not relieve CONTRACTOR from its obligations as to the Completion Time specified in the Agreement.



## 2.9 Compliance with Law

CONTRACTOR shall comply, and secure compliance by its subcontractors, with all applicable laws or regulations in connection with the services furnished hereunder. This includes the securing of any business or other licensing, certifications, or permits required.

If CONTRACTOR discovers any variance between the provisions of applicable laws and regulations and the drawings, Specifications, and other technical data furnished by the GPA, CONTRACTOR shall promptly notify GPA in writing thereof and obtain necessary changes from GPA before proceeding with the work affected thereby.

## 2.10 Price Adjustment

### 2.10.1 Price Adjustment Methods

Any adjustment in contract price within the parameters of this contract shall be made in one or more of the following ways:

- a) By agreement on a fixed price adjustment before commencement of the pertinent performance or as soon thereafter as practicable;
- b) By unit prices specified in the contract or subsequently agreed upon;
- c) By the costs attributable to the event or situation covered by the clause, plus appropriate profit or fee, all as specified in the contract or subsequently agreed upon;
- d) In such other manner as the parties may mutually agree; or
- e) In the absence of agreement between the parties, by a unilateral determination by the Procurement Officer of the costs attributable to the event or situation covered by the clause, plus appropriate profit or fee, all as computed by the Procurement

### 2.10.2 Submission of Cost or Pricing Data

The CONTRACTOR shall provide cost or pricing data for any price adjustments subject to the provisions of Section 3 403 (Cost or Pricing Data) of the Guam Procurement Regulations.

## 2.11 Contract Price

The Contract Price constitutes the total consideration to be paid by GPA to THE CONTRACTOR for the services performed in accordance with the Contract Documents as amended by the parties pursuant to the Agreement. Unless expressly provided otherwise in the Contract Documents, the Contract Price is not subject to escalation in respect of materials and/or labor cost or any other factor or variation in rates of exchange, and all duties, responsibilities, and obligations assigned to or undertaken by THE CONTRACTOR shall be at its expense without change in the Contract Price. Charges, fees, CONTRACTOR's profit, and all other expense shall be deemed to be included in the

Contract Price. Furthermore, the Contract Price includes management fees and incentive/penalty payments. Therefore, the Contract Price is dynamic but bounded.

Only a formal Change Order, accepted by GPA, may change the Contract Price. THE CONTRACTOR shall make any claim for an increase in the Contract Price in advance of performance of any such changes. However, GPA reserves the right to challenge or refute such claims.

## 2.12 Force Majeure

Force Majeure referred to herein shall mean an occurrence beyond the control and without the fault or negligence of the party affected including, but not limited to, acts of God or the public enemy, expropriation or confiscation; changes in law procedures, war, rebellion, or riots; floods, unusually severe weather that could not reasonably have been anticipated; fires, explosions, epidemics, catastrophes, or other similar occurrences which are not within the control of the party affected. However, the following shall not be considered as Force Majeure:

- a) Delay caused by lack or inability to obtain raw materials, congestion at CONTRACTOR's or its subcontractor's facilities, or elsewhere; market shortages, or similar occurrences, or
- b) Delay, either on the part of THE CONTRACTOR or its subcontractors, caused by shortages of supervisors or labor, inefficiency, or similar occurrences, or
- c) Sabotage, strikes, or any other concerted acts of workmen, which occur only in the facilities of THE CONTRACTOR or its subcontractors.

Should the circumstances of Force Majeure continue over a period of ninety (90) days, GPA has the right, if no other understanding is reached, to terminate the whole Agreement or any part thereof in accordance with Paragraph 4.16. Any delay or failure in performing the obligations under the Contract Documents of the parties hereto shall not constitute default under the Purchase Contract or give rise to any claim for damages or loss or anticipated profits if, and to the extent, such delay or failure is caused by Force Majeure, and if a claim is made therefore.

## 2.13 Invocation of Force Majeure

The party invoking Force Majeure shall perform the following:

- a) Notify the other party as soon as reasonably possible by facsimile, e-mail, telex, cable or Messenger/courier of the nature of Force Majeure, anticipated exposure time under Force Majeure, and the extent to which the Force Majeure suspends the affected party's obligations under the CONTRACT;
- b) Consult with the other party and take all reasonable, prudent steps to minimize the losses of either party resulting from the Force Majeure;
- c) Resume the performance of its obligations as soon as possible after the Force Majeure condition ceases.

In the event the CONTRACTOR furnishes special services for installation and startup, such services shall be rendered in a competent and diligent manner and in accordance with the Contract Documents, accepted industry practice and any applicable professional standards.

#### **2.14 Cost of Remedying Defects**

All direct, indirect, and other costs of correcting, defects in services and of exercising GPA's rights and remedies under **Paragraph 4.19**, and other sections as they apply, will be charged against THE CONTRACTOR and, if incurred prior to final payment, a Change Order will be issued incorporating the necessary revisions in the Contract Documents and a reduction in the Purchase Price, or if incurred after final payment, an appropriate amount will be paid by THE CONTRACTOR to GPA. Such direct, indirect, and other costs will include, in particular but without limitation, compensation for additional professional services. THE CONTRACTOR shall not be allowed an extension of the Delivery Time because of any delay in performance attributable to the exercise by GPA of GPA's rights and remedies under this paragraph.

#### **2.15 Stop Work Order**

##### **2.15.1 Order to Stop Work**

The Procurement Officer may, by written order to the CONTRACTOR, at any time, and without notice to any surety, require the CONTRACTOR to stop all or any part of the work called for by this contract. This order shall be for a specified period not exceeding ninety-days (90-days) after the order is delivered to the CONTRACTOR, unless the parties agree to any further period. Any such order shall be identified specifically as a stop work order issued pursuant to this clause. Upon receipt of such an order, the CONTRACTOR shall forthwith comply with its terms and take all reasonable steps to minimize the occurrence of costs allocable to the work covered by the order during the period of work stoppage. Before the stop work order expires, or within any further period to which the parties shall have agreed, the Procurement Officer shall either:

- a) Cancel the stop work order; or
- b) Terminate the work covered by such order, as provided in the 'Termination for Default Clause' or the 'Termination for Convenience Clause' of this contract.

##### **2.15.2 Cancellation or Expiration of the Order**

If a stop work order issued under this clause is canceled at any time during the period specified in the order, or if the period of the order or any extension thereof expires, the CONTRACTOR shall have the right to resume work. An appropriate adjustment shall be made in the delivery schedule or contract price shall be modified in writing accordingly, if:

- a) The stop work order results in an increase in the time required for, or in the CONTRACTOR's cost properly allocable to, the performance of any part of this contract; and

- b) The CONTRACTOR asserts a claim for such an adjustment within thirty (30) days after the end of the period of work stoppage; provided that, if the Procurement Officer decides that the facts justify such action, any such claim asserted may be received and acted upon at any time prior to final payment under this contract.

### **2.15.3 Termination of Stopped Work**

If a stop work order is not canceled and the work covered by such order is terminated for default or Convenience, the reasonable costs resulting from the stop work order shall be allowed by adjustment or otherwise.

## **2.16 Termination for Convenience**

### **2.16.1 Termination**

The Procurement Officer may, when the interest of GPA or the Territory so require, terminate this contract in whole or in part, for the Convenience of the Territory. The Procurement Officer shall give written notice of the termination to the CONTRACTOR specifying the part of the contract terminated and when termination becomes effective. **[GSA Procurement Regulations 6-101.10.]**

### **2.16.2 Contractor's Obligations**

The CONTRACTOR shall incur no further obligations in connection with the terminated work and on the date set in the notice of termination the CONTRACTOR will stop work to the extent specified. The CONTRACTOR shall also terminate outstanding orders and subcontracts as they relate to the terminated work. The CONTRACTOR shall settle the liabilities and claims arising out of the termination of subcontracts and orders connected with the terminated work. The Procurement Officer may direct the CONTRACTOR to assign the CONTRACTOR's right, title, and interest under terminated orders or subcontracts to the GPA. The CONTRACTOR must still complete the work not terminated by the notice of termination and may incur obligations as are necessary to do so.

### **2.16.3 Right to Supplies**

The Procurement Officer may require the CONTRACTOR to transfer title and deliver to GPA in the manner and to the extent directed by the Procurement Officer:

- a) Training material;
- b) Any completed supplies; and,
- c) Such partially completed supplies and materials, parts, tools, dies, jigs, fixtures, plans, drawings, information and contract rights (hereinafter called "manufacturing material") as the CONTRACTOR has specifically produced or specially acquired for the performance of the terminated part of this contract.

The CONTRACTOR shall, upon direction of the Procurement Officer, protect and preserve property in the possession of the CONTRACTOR in which the Territory has an interest. If the Procurement Officer does not exercise this right, the CONTRACTOR shall use best efforts to sell such supplies and manufacturing materials in accordance with the standards of Uniform Commercial Code of Guam (UCCG), Section 2706. Utilization of this Section in no way implies that the Territory has breached the contract by exercise of the Termination for Convenience Clause.

#### **2.16.4 Compensation Under Termination for Convenience**

The CONTRACTOR shall perform the following for compensation under termination for convenience.

- a) The CONTRACTOR shall submit a termination claim specifying the amounts due because of the termination for Convenience together with cost or pricing data to the extent required by **Section 3-403 (Cost or Pricing Data) of the Guam Procurement Regulations** bearing on such claim. If the CONTRACTOR fails to file a termination claim within one year from the effective date of termination, the Procurement Officer may pay the CONTRACTOR, if at all, an amount set in accordance with subparagraph (c) of this Paragraph.
- b) The Procurement Officer and the CONTRACTOR may agree to a settlement provided the CONTRACTOR has filed a termination claim supported by cost or pricing data to the extent required by **Section 3-403 (Cost or Pricing Data) of the Guam Procurement Regulations** and that the settlement does not exceed the total contract price plus settlement costs reduced by payments previously made by GPA, the proceeds of any sales of supplies and manufacturing materials, and the contract price of the work not terminated.
- c) Absent complete agreement under Subparagraph (b) of this Paragraph, the Procurement Officer shall pay the CONTRACTOR the following amounts, provided payments agreed to under Subparagraph (b) shall not duplicate payments under this subparagraph:
  - i. Contract prices for supplies or services accepted under the contract;
  - ii. Costs incurred in preparing to perform and performing the terminated portion of the work plus a fair and reasonable profit on such portion of the work (such profit shall not include anticipatory profit or consequential damages) less amounts paid or to be paid for accepted supplies or services; provided, however, that if it appears that the CONTRACTOR would have sustained a loss if the entire contract would have been completed, no profit shall be allowed or included and the amount of compensation shall be reduced to reflect the anticipated rate of loss;

- iii. Costs of settling and paying claims arising out of the termination of subcontracts or orders pursuant to **Paragraph 4.16.2** of this clause. These costs must not include costs paid in accordance with other subparagraphs of this Paragraph;
  - iv. The reasonable settlement costs of the CONTRACTOR including accounting, legal, clerical, and other expenses reasonably necessary for the preparation of settlement claims and supporting data with respect to the terminated portion of the contract for the termination and settlement of subcontracts there under, together with reasonable storage, transportation, and other costs incurred in connection with the protection or disposition of property allocable to the terminated portion of this contract. The total sum to be paid to the CONTRACTOR under this Subparagraph shall not exceed the total contract price plus the reasonable settlement costs of the CONTRACTOR reduced by the amount of payments otherwise made, the proceeds of any sales of supplies and manufacturing materials under subparagraph (b) of this Paragraph, and the contract price of work not terminated.
- d) Cost claimed, agreed to, or established under subparagraph (b) and (c) of this Paragraph shall be in accordance with Chapter 7 (**Cost Principles**) of the **Guam Procurement Regulations. 13 GCA 2706 (UCCG)** states:

## 2.17 Termination for Defaults

### 2.17.1 Default

If the CONTRACTOR refuses or fails to perform any of the provisions of this contract with such diligence as will ensure its completion within the time specified in this contract, or any extension thereof, otherwise fails to timely satisfy the contract provisions, or commits any other substantial breach of this contract, the Procurement Officer may notify the CONTRACTOR in writing of the delay or non-performance and if not corrected in ten days or any longer time specified in writing by the Procurement Officer, such officer may terminate the CONTRACTOR's right to proceed with the contract or such part of the contract as to which there has been delay or a failure to properly perform. In the event of termination in whole or in part the Procurement Officer may procure similar supplies or services in a manner and upon terms deemed appropriate by the Procurement Officer. The CONTRACTOR shall continue performance of the contract to the extent it is not terminated and shall be liable for excess cost incurred on procuring similar services.

### 2.17.2 Contractor's Duties

Notwithstanding termination of the contract and subject to any directions from the Procurement Officer, the CONTRACTOR shall take timely, reasonable, and necessary action to protect and preserve property in the possession of the CONTRACTOR in which GPA has an interest.

### 2.17.3 Compensation

Payment for completed supplies delivered and accepted by the GPA shall be at the contract price. Payment for the protection and preservation of property shall be in an amount agreed upon by the CONTRACTOR and the Procurement Officer; if the parties fail to agree, the Procurement Officer shall set an amount subject to the CONTRACTOR's rights under Chapter 9 (Legal and Contractual Remedies) of the Guam Procurement Regulations. The GPA may withhold from amounts due the CONTRACTOR such sums as the Procurement Officer deems to be necessary to protect the GPA against loss because of outstanding liens or claims of former lien holders and to reimburse the PURCHASER for the excess costs incurred in procuring similar services.

### 2.17.4 Excuse for Nonperformance or Delayed Performance

Except with respect to defaults of subcontractors, the CONTRACTOR shall not be in default by reason of any failure in performance of this contract in accordance with its terms (including any failure by the CONTRACTOR to make progress in the prosecution of the work hereunder which endangers such performance) if the CONTRACTOR has notified the Procurement Officer within fifteen (15) days after the cause of the delay and the failure arises out of causes such as: acts of God; acts of the public enemy; act of the Territory and any other governmental entity in its sovereign restrictions; strikes or other labor disputes; freight embargoes; or unusually severe weather. If the failure to perform is caused by the failure of a subcontractor to perform or to make progress, and if such failure arises out of causes similar to those set forth above, the CONTRACTOR shall not be deemed to be in default, unless the supplies or services to be furnished by the subcontractor were reasonably obtainable from other sources in sufficient time to permit the CONTRACTOR to meet the contract requirements. Upon request of the CONTRACTOR, the Procurement Officer shall ascertain the facts and extent of such failure, and, if such officer determines that any failure to perform was occasioned by any one or more of the excusable causes, and that, but for the excusable cause, the CONTRACTOR's progress and performance would have met the terms of the contract, the delivery schedule shall be revised accordingly, subject to the rights of the GPA under the clause entitled "Termination For Convenience", Paragraph 4.16. (As used in the Paragraph of this clause the term "subcontractor" means subcontractor at any tier.)

### 2.17.5 Erroneous Termination for Default

If, after notice of termination of the CONTRACTOR's right to proceed under the provisions of this clause, it is determined for any reason that the CONTRACTOR was not in default under the provisions of this clause, or that the delay was excusable under the provisions **Paragraph 4.17.4** (Excuse for Nonperformance or Delayed Performance) of this clause, the rights and obligations of the parties shall, if the contract contains a clause providing for termination for Convenience of GPA, be the same as if the notice of termination had been issued pursuant to such clause. If, in the foregoing circumstances, this contract does not contain a clause providing for termination for Convenience of GPA, the contract shall be adjusted to compensate for such termination and

the contract modified accordingly subject to the CONTRACTOR's rights under Chapter 9 (Legal and Contractual Remedies) of the Guam Procurement Regulations.

#### **2.17.6 Additional Rights and Remedies**

The rights and remedies provided in this clause are in addition to any other rights and remedies provided by law or under this contract.

#### **2.18 Disputes**

All controversies between GPA and the CONTRACTOR, which arise under, or are by virtue of, this contract and which are not resolved by mutual agreement, shall be resolved under Guam Procurement Law and the Government Claims Act.

#### **2.19 Consequential Damages**

Unless expressly provided for otherwise in this Agreement, neither party, including their agents and employees, shall be liable to the other party for consequential damages, including, but not limited to, loss of use, loss of profit and interest due to breach of contract, breach of warranty, negligence, or any other cause whatsoever, provided nothing herein shall relieve CONTRACTOR from its liability for injury to persons or property, including property of GPA, whether such liability arises in contract, including breach of warranty, or tort, including negligence.

#### **2.20 Notices**

Whenever any provision of the Contract Documents requires the giving of written notice it shall be deemed to have been validly given if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or if delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the giver of the notice.

#### **2.21 Computation of Time**

When any period of time is referred to in the Contract Documents by days, it will be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the time computation.

#### **2.22 Language and Trade Terms**

All communications, documents, and execution of services hereunder, unless otherwise designated, shall be in the English language. INCOTERMS (International Rules for the Interpretation of Trade Terms) published by the International Chamber of Commerce in 1980 and any subsequent revisions thereto shall govern interpretation of trade terms in the Contract Documents.



### 2.23 **Governing Law**

The laws of Guam shall govern the validity and interpretation of these conditions, the Agreement and legal relations of the parties.

CONTRACTOR shall not transfer or assign to any third parties any obligations or rights under the Agreement, nor any claims against GPA arising directly or indirectly out of the Agreement.

CONTRACTOR shall not sublet the Agreement in whole or in part without the prior written consent of GPA. Written consent of GPA for subletting shall not relieve CONTRACTOR of any of his obligations under the Agreement.

### 2.24 **Non-waiver**

GPA shall not consider any provisions of this Agreement waived unless GPA gives notice of such waiver in writing. Even if such notice has been given, such waiver shall not be construed as being a waiver of any other past or future right of GPA under the provisions of this Agreement, unless otherwise expressly stipulated therein. Failure of GPA to insist upon strict performance of any of the terms and conditions hereof, or failure or delay of GPA to insist upon strict performance of any of the terms and conditions hereof, or failure or delay of GPA to exercise any acts, rights, or remedies provided herein or by law shall not relieve CONTRACTOR of liability under any guarantees or of obligations under the Agreement and shall not be deemed a waiver of any right of GPA to insist upon strict fulfillment of the Agreement or of any of GPA's rights or remedies as to the services furnished.

### 2.25 **Severability**

If any work, phrase, clause, article, or other provision of this Agreement is or is deemed or adjudicated or otherwise found to be against public policy, void, or otherwise unenforceable, then said work, phrase, clause, article, or other provision shall be deleted or modified, in keeping with the express intent of the parties hereto as necessary to render all the remainder of this Agreement valid and enforceable. All such deletions or modifications shall be the minimum necessary to affect the foregoing.

### 2.26 **Rights and Remedies**

The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto, will be in addition to, and shall not be construed in any way as a limitation of any rights and remedies available to any or all of them which are otherwise imposed or available by law or contract, by special warranty or guarantee, or by other provisions of the Contract Documents, and the provisions of this paragraph shall be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right, and remedy to which they apply. All representations, warranties, and guarantees made in the Contract Documents will survive final payment and termination or completion of this Agreement.

## 2.27 Claims based on the General Manager's Action or Omissions

If any action or omission on the part of the General Manager, or his/her designee, requiring performance changes within the scope of the contract constitutes the basis for a claim by the CONTRACTOR for additional compensation, damages, or an extension of time for completion, the CONTRACTOR shall continue with performance of the contract in compliance with the directions or orders of such officials, but by so doing, the CONTRACTOR shall not be deemed to have prejudiced any claim for additional compensation, damages, or an extension of time for completion; provided:

- (1) The CONTRACTOR shall have given written notice to the General Manager, or his/her designee:
  - i. Prior to the commencement of the work involved, if at that time the CONTRACTOR knows of the occurrence of such action or omission;
  - ii. Within thirty (30) days after the CONTRACTOR knows of the occurrence of such action or omission, if the CONTRACTOR did not have such knowledge prior to the commencement of the work; or
  - iii. Within such further time as may be allowed by the Procurement Officer in writing. This notice shall state that the CONTRACTOR regards the act or omission as a reason that may entitle the CONTRACTOR to additional compensation, damages, or an extension of time. The Procurement Officer or designee of such officer, upon receipt of such notice, may rescind such action, remedy such omission, or take such other steps as may be deemed advisable in the discretion of the Procurement Officer or designee of such officer.
- (2) The notice required by subparagraph (1) of this Paragraph describes as clearly as practicable at the time the reasons why the CONTRACTOR believes that additional compensation, damages, or an extension of time may be remedies to which the CONTRACTOR is entitled; and
- (3) The CONTRACTOR maintains and, upon request, makes available to the Procurement Officer within a reasonable time, detailed records to the extent practicable, of the claimed additional costs or basis for an extension of time in connection with such changes.

## 2.28 Limitations of Clause

Nothing herein contained shall excuse the CONTRACTOR from compliance with any rules of law precluding GPA and its officers and any CONTRACTORS from acting in collusion or bad faith in issuing or performing change orders that are clearly not within the scope of the contract.

## 2.29 Standard Work Schedule

Work scheduled and performed by the CONTRACTOR on GPA's premises shall conform to published GPA working hours and shall account for GPA's observed holidays.

### 2.30 Interference with Operation

Interference with normal operation of GPA's facilities or equipment, or that of any CONTRACTORs or subcontractors on GPA's premises, shall be avoided. The GPA's representative will determine in advance whether such interference is unavoidable and will establish the necessary procedures under which the interferences will be allowed.

### 2.31 Release of Information

The CONTRACTOR shall not release any information, including the contract price, concerning this project or any part thereof in any form, including advertising, news releases, or professional articles, without written permission of GPA.

### 2.32 Liens

In the event that a lien of any nature shall at any time be filed against the hardware, firmware, or software or the CONTRACTOR's facility by any person, firm, or corporation which has supplied material or services at the request of the CONTRACTOR, and for the cost of which the CONTRACTOR is liable under the terms of the Agreement, the CONTRACTOR agrees, promptly on demand of GPA and at the CONTRACTOR's expense, to take any and all action necessary to cause any such lien to be released or discharged therefrom. The CONTRACTOR agrees to hold GPA harmless from all liens, claims, or demands in connection with the Work.

### 2.33 Insurance

Contractor shall not commence work under this contract until he has obtained all insurance required under this section and owner has approved such insurance, nor shall the Contractor allow any Subcontractor to commence work on this subcontract until all similar insurance required of the Subcontractor has been so obtained and approved. He shall maintain all insurance required during the course of the work.

### 2.34 Contractors and Subcontractors Insurance

Prior to commencing the work, contractor shall obtain and thereafter maintain during the course of the work Insurance with companies acceptable to owner. The contractor shall not allow any subcontractor to commence work on his subcontract until all similar insurance required of the subcontractor has been so obtained and approved. The limits of insurance shall be as follows unless a higher limit is required by statute:

1. General Liability including products, completed operations and contractual coverage for this Agreement in the amount of \$1,000,000 combined limit. Owner shall be an additional insured.
2. Auto Liability covering bodily injury and property damage in the amount of \$1,000,000 combined single limit. Owner shall be an additional insured.

3. Excess Liability with limits of \$5,000,000 or higher. Owner shall be an additional insured.
4. Worker's Compensation and Employer's Liability – Statutory limits. Add Waiver of Subrogation endorsement in favor of Owner.
5. Builder's Risk or Installation Floater, when applicable, is to be furnished by Contractor, which shall include owner as named insured.

#### **2.34.1 Indemnification**

The Contractor shall indemnify, defend and hold harmless owner against all loss, damage, or expense (including reasonable attorney's fees incurred by owner) arising out of the performance of the work, including injury or death to any person or persons resulting from the acts or omission of the Contractor or the Contractor's employees, servants, agents or subcontractors and from mechanics and materialism liens

#### **2.34.2 Certificate of Insurance**

Contractor shall furnish certificates of insurance and waiver of subrogation endorsement to owner prior to commencement of work showing evidence of such coverage, including the statement to the effect that cancellation or termination of the insurance shall not be effective until at least (10) days after receipt of written notice to owner. At all times Contractor's insurance shall be primary to any other insurance that may be carried by Owner. The statement of limits of insurance coverage shall be construed as in any way limiting the Contractor's liability under this agreement. Owner shall be an additional insured on all liability coverage and certificates of insurance shall clearly indicate such.

#### **2.34.3 Insurance Company and Agent**

All insurance policies herein required of the Contractor shall be written by a company duly authorized and licensed to do business in the State or Territory where work under this contract is being performed and be executed by some agent thereof duly licensed as an agent in said State or Territory.

**MULTI-STEP BID NO.: GPA-068-18**

**HAZARDOUS MATERIALS REMOVAL AND DISPOSAL  
FOR  
TANGUISSON POWER PLANT AND DEDEDO DIESEL  
POWER PLANT**



**APPENDICES**

**Appendix A      Checklist**

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**DOCUMENT RECEIPT CHECKLIST**

**Form A-1**

**MULTI-STEP BID NO.: GPA-068-18**

**HAZARDOUS MATERIALS REMOVAL AND DISPOSAL FOR TANGUISSON POWER PLANT AND DEDEDO DIESEL POWER PLANT**

<b>Document Title</b>	<b>Bidder Initial</b>
APPENDICES	
APPENDIX A – Checklists (Form A-1 and Form A-2)	_____
APPENDIX B – Performance Bond	_____
APPENDIX C – List of Surety Companies Licensed to Do Business in Guam	_____
APPENDIX D – Major Shareholders Disclosure Affidavit	_____
APPENDIX E – Non-Collusion Affidavit	_____
APPENDIX F – No Gratuities or Kickbacks Affidavit	_____
APPENDIX G – Ethical Standards Affidavit	_____
APPENDIX H – Declaration Re Compliance with U.S. DOL Wage Determination	_____
APPENDIX I – Bid Bond Form and Instructions	_____
APPENDIX J – Restriction Against Sex Offenders Employed by Service Providers to Government of Guam from Working on Government of Guam Property	_____
APPENDIX K – Local Procurement Preference Application	_____
APPENDIX L – Total Bid Cost	_____
APPENDIX M – Site Plan	_____
Others:	
APPENDIX N – Hazardous Material Sruvey Data: Tanguisson Plant	_____
APPENDIX O – Hazardours Material Survey Data: Dededo Diesel Plant	_____

**TECHNICAL PROPOSAL SUBMITTAL CHECKLIST<sup>1</sup>**

**Form A-2**

**MULTI-STEP BID NO. GPA-068-18  
HAZARDOUS MATERIALS REMOVAL AND DISPOSAL FOR TANGUISSON POWER PLANT AND  
DEDEDO DIESEL POWER PLANT**

ITEM	QUANTITY (ORIGINALS)	QUANTITY (COPIES)	GPA INITIAL
1 Technical Qualification Proposal	_____	_____	_____
2 Supplementary Information:	_____	_____	_____
2.1 Articles of Incorporation and By-Laws <sup>2</sup>	_____	_____	_____
2.2 Audited Financial Information on Bidder and Sub-Contractors	_____	_____	_____
2.3 Certificate of Good Standing <sup>2</sup>	_____	_____	_____
2.4 Client References	_____	_____	_____
2.5 Bid Bond <sup>2</sup>	_____	_____	_____
2.6 Affidavit of Disclosure of Major Shareholders <sup>2</sup>	_____	_____	_____
2.7 Non-Collusion Affidavit <sup>2</sup>	_____	_____	_____
2.9 No Gratuities or Kickbacks Affidavit <sup>2</sup>	_____	_____	_____
2.10 Ethical Standards Affidavit <sup>2</sup>	_____	_____	_____
2.11 Delcaration Re-Compliance with US DOL Wage Determination <sup>2</sup>	_____	_____	_____
2.12 Restriction Against Sex Offenders Employed by Service Providers to Government of Guam from Working on Government of Guam Property <sup>2</sup>	_____	_____	_____
2.13 Information regarding outstanding claims against the BIDDER, if any <sup>2</sup>	_____	_____	_____
2.14 Local Procurement Preference Application	_____	_____	_____
2.15 Current Guam Business License <sup>3</sup>	_____	_____	_____
3 Form A-1, Document Receipt Checklist	_____	_____	_____

<sup>1</sup> Quantities supplied for each item must comply with minimums established in Volume I of the Request for Proposal documents.

<sup>2</sup> Proposal is subject to automatic disqualification if this article is not provided.

<sup>3</sup> Not required in order to provide a PROPOSAL for this engagement, but is a pre-condition for entering into a contract with the Authority



**Appendix B                  Performance Bond**

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**BOND NO.:**

**PERFORMANCE BOND**

KNOW ALL MEN BY THESE PRESENTS that (here insert full name and address or legal title of Contractor) \_\_\_\_\_  
 \_\_\_\_\_  
 as Principal, hereinafter called, Contractor, and (Bonding Company), called Surety, are held and firmly bound unto the Territory of Guam as Obligee, in the amount of \_\_\_\_\_  
 \_\_\_\_\_ Dollars (\$ \_\_\_\_\_), for the payment whereof Contractor and Surety bind themselves, their heirs, executor, administrators, successors and assigns jointly and severally firmly by these presents.

WHEREAS, Contractor has by written agreement dated \_\_\_\_\_ entered into a contract with the Territory of Guam for (describe project and insert project number) \_\_\_\_\_  
 \_\_\_\_\_ which contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Contractor shall promptly and faithfully perform said Contract then this obligation shall be null and void, otherwise, it shall remain the full force and effect. The Surety hereby waives notice of any alternation or extension provided the same is within the scope of the contract. Whenever Contractor shall be and is declared by the Territory of Guam to be in default under the Contract, the Territory of Guam having performed territorial obligations there under the Surety may promptly remedy the default or shall promptly:

1. Complete the Contract in accordance with its terms and conditions; or
2. Obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and upon determination by the Territory of Guam and the Surety jointly of the lowest responsive, responsible bidder arrange for a contract between such bidder and the Territory of Guam, and make available as work progresses (even though there should be default or a succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the contract price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term "balance of the contract price," as used in this paragraph shall mean the total amount payable by the Territory of Guam to Contractor under the Contract and any amendments thereto, less the amount properly paid by the Territory of Guam to Contractor. No right of action shall accrue on this bond to or for the use of any person or corporation other than the Territory of Guam or successors of the Territory of Guam.

Signed and sealed this \_\_\_\_\_ day of \_\_\_\_\_, 2018.

\_\_\_\_\_  
 (PRINCIPAL) (SEAL)



\_\_\_\_\_  
(WITNESS)

\_\_\_\_\_  
(TITLE)

\_\_\_\_\_  
(MAJOR OFFICER OF SURETY)

\_\_\_\_\_  
(TITLE)

\_\_\_\_\_  
(MAJOR OFFICER OF SURETY)

\_\_\_\_\_  
(TITLE)

**Appendix C**

**List of Surety Companies Licensed to Do Business in Guam**

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NAMES AND ADDRESSES OF ALL INSURANCE COMPANIES  
AND THEIR GENERAL AGENTS  
LICENSED TO TRANSACT INSURANCE BUSINESS IN GUAM  
AS OF DECEMBER 31,1999

NAME AND HOME ADDRESS  
OF INSURANCE COMPANY

NAME AND ADDRESS  
OF GENERAL AGENT

Academy Life Insurance Co  
20 Moores Road  
Frazer PA 19355

Prescott R. Hoeck  
1036S Route 1  
Yigo GU 96929

Admiral Life Insurance Co of America  
206 Eight Street  
Des Moines IA 50309

Francisco B. Salas  
145 Aspinall Avenue  
Hagatna GU 96910

Alexander Hamilton Life Insurance Co  
100 North Greene Street  
Greensboro NC 27401

Money Resources Inc  
415 Chalan San Antonio #210  
Tamuning GU 96911

All American Life Insurance Co  
707 North Eleventh Street  
PO Box 2074  
Milwaukee WI 53201

Independent Research Agency for  
Life Insurance  
Hong's Building Suite 5  
Route 10 & 32  
Mangilao GU 96923

Joseph M. Casey  
Holiday Tower Condo, Apt. 615  
Route 4  
Sinajana GU 96926

Ambac Assurance Corporation  
One State Street Plaza  
New York NY 10004

Moylan's Insurance Underwriters Inc  
101 Agana Shopping Center  
Hagatna GU 96910

American Family Life Assurance Co  
1932 Wynnton Road  
Columbus GA 31999

Pioneer Pacific Financial Services  
Inc of Guam  
231 Hesler Place  
Hagatna GU 96910

American Fidelity Life Insurance Co  
4060 Barrancas Avenue  
Pensacola FL 32507

Dale M. Donovan  
790 N Marine Drive # 496  
Tumon GU 96911

NAME AND HOME ADDRESS  
OF INSURANCE COMPANY

American Home Assurance Co  
70 Pine Street  
New York NY 10270

American International Assurance  
Company (Bermuda) LTD  
29 Richmond Road  
Pembroke HKO8 Bermuda

American International Life  
Assurance Company  
P O Box 727  
Wall Street Station  
New York NY 10268

American National Insurance Co  
One Moody Plaza  
Galveston TX 77550

American National Life Insurance  
Company of Texas  
One Moody Plaza  
Galveston TX 77550

American-Amicable Life Insurance  
Company of Texas  
425 Austin Avenue  
Waco TX 76702

Amwest Surety Insurance Co  
5230 Las Virgenes Road  
Calabasas CA 91302

Argonaut Insurance Co  
250 Middlefield Road  
Menlo Park CA 94025

NAME AND ADDRESS  
OF GENERAL AGENT

Calvo's Insurance Underwriters Inc  
115 Chalan Santo Papa  
Hagatna GU 96910

Calvo's Insurance Underwriters Inc  
115 Chalan Santo Papa  
Hagatna GU 96910

Calvo's Insurance Underwriters Inc  
115 Chalan Santo Papa  
Hagatna GU 96910

Randolph C. Biscoe  
130 Aspinall Avenue Suite 1 E  
Hagatna GU 96910

Randolph C. Biscoe  
130 Aspinall Avenue Suite 1 E  
Hagatna GU 96910

Winfred T. Profitt  
106 Lily Court  
Mangilao GU 96923

Takagi & Associates Inc  
414 W Soledad Avenue Suite 100  
Hagatna GU 96910

Cassidy's Associated Insurers Inc  
376 West O'Brien Drive  
Hagatna GU 96910

Cassidy's Associated Insurers Inc  
376 West O'Brien Drive  
Hagatna GU 96910

NAME AND HOME ADDRESS  
OF INSURANCE COMPANY

Balboa Insurance Co  
18581 Teller Avenue  
Irvine CA 92612

Balboa Life Insurance Co  
18581 Teller Avenue  
Irvine CA 92612

Best Life Assurance Co of California  
P O Box 19721  
Irvine CA 96612

Canada Life Assurance Co The  
330 University Avenue  
Ontario Toronto Canada M5G1 R

Capital Markets Assurance  
Corporation  
113 King Street  
Armonk NY 10504

Central States Health & Life  
Co of Omaha  
P O Box 34350  
Omaha NE 68134-0350

Central States Indemnity Co.  
of Omaha  
P O Box 34350  
Omaha NE 68134

Centurion Life Insurance Co  
206 Eighth Street  
Des Moines IA 50309

NAME AND ADDRESS  
OF GENERAL AGENT

Cassidy's Associated Insurers Inc  
376 West O'Brien Drive  
Hagatna GU 96910

Cassidy's Associated Insurers Inc  
376 West O'Brien Drive  
Hagatna GU 96910

D B Davis & Associates  
Staywell Building  
430 West Soledad Avenue  
Hagatna GU 96910

Joaquin C. Arriola  
259 Martyr Street Suite 201  
Hagatna GU 96910

Moylan's Insurance Underwriters Inc  
101 Agana Shopping Center  
Hagatna GU 96910

The Brass Group Inc  
479 West O'Brien Drive Suite 102  
Hagatna GU 96910

Moylan's Insurance Underwriters Inc  
101 Agana Shopping Center  
Hagatna GU 96910

Moylan's Insurance Underwriters Inc  
101 Agana Shopping Center  
Hagatna GU 96910

Francisco B. Salas  
267 S Marine Drive Suite 2F  
Tamuning GU 96911



NAME AND HOME ADDRESS  
OF INSURANCE COMPANY

CGU International Insurance PLC  
Multinational Bancorporation Ctr 10th Flr  
6805 Ayala Avenue  
Makati City Philippines

Chung Kuo Insurance Co Ltd  
10th Floor ICBC Bldg  
No 100 Chilin Road  
Taipei Taiwan

Conseco Life Insurance Co  
11815 N Pennsylvania Street  
Carmel IN 46032

Continental Insurance Co  
CNA Plaza  
Chicago IL 60685

Cumberland Casualty & Surety Co  
4311 W Waters Avenue #401  
Tampa FL 33614

NAME AND ADDRESS  
OF GENERAL AGENT

AON Insurance Micronesia (Guam) I  
Hengi Plaza #203  
278 South Marine Drive  
Tamuning GU 96911

Great National Ins Underwriters Inc  
Great National Insurance Building  
Chalan San Antonio  
Tamuning GU 96911

Alpha Insurers  
123 Archbishop Flores Street  
Hagatna GU 96910

Rodolfo B. Batimana  
Suite 202 Julale Center  
Hagatna GU 96910

Carmencita C. Estrada  
114 Abas Court Liguana Terrace  
Dededo GU 96912

Pacific Financial Corporation  
973 S Marine Drive Suite 101  
Tamuning GU 96911

Edward B. Senato  
P O Box 11945  
Tamuning GU 96931

Farley A. Young  
132 Kayen Mapagahes  
Dededo GU 96912

Cassidy's Associated Insurers Inc  
376 West O'Brien Drive  
Hagatna GU 96910

Cassidy's Associated Insurers Inc  
376 West O'Brien Drive  
Hagatna GU 96910

NAME AND HOME ADDRESS  
OF INSURANCE COMPANY

Dai-Tokyo Fire & Marine Insurance  
Company Ltd The  
25-3, Yoyogi 3-Chome Shlbuya-ku  
Tokyo Japan

Delaware American Life Insurance Co  
P O Box 667  
Wilmington DE 19899

Dongbu Insurance Co  
21-9 Cho-Dong, Chung-Gu  
CPO Box 658  
Seoul Korea 100

Eagle Pacific Insurance Co  
2101 4th Avenue Suite 1700  
Seattle WA 98121

Federal Insurance Co  
P O Box 1615  
Warren NJ 07061

Fireman's Fund Insurance Company  
777 San Marin Drive  
Novato CA 94998

First American Title Insurance Co  
114 East Fifth Street  
Santa Ana CA 92702

First Fire & Casualty Insurance  
Hawaii Inc  
P O Box 2866  
Honolulu HI 96803

First Indemnity Insurance of Hawaii Inc  
P O Box 2866  
Honolulu HI 96803

NAME AND ADDRESS  
OF GENERAL AGENT

Takagi & Associates Inc  
414 W Soledad Avenue  
GCIC Building Suite 100  
Hagatna GU 96910

Calvo's Insurance Underwriters Inc  
115 Chalan Santo Papa  
Hagatna GU 96910

Moylan's Insurance Underwriters Inc  
101 Agana Shopping Center  
Hagatna GU 96910

Moylan's Insurance Underwriters Inc  
101 Agana Shopping Center  
Hagatna GU 96910

Cassidy's Associated Insurers Inc  
376 West O'Brien Drive  
Hagatna GU 96910

Calvo's Insurance Underwriters Inc  
115 Chalan Santo Papa  
Hagatna GU 96910

Pacific American Title Insurance &  
Escrow Company  
715 Chalan Machaute Suite 101  
Maite GU 96927

Cassidy's Associated Insurers Inc  
376 West O'Brien Drive  
Hagatna GU 96910

Cassidy's Associated Insurers Inc  
376 West O'Brien Drive  
Hagatna GU 96910

NAME AND HOME ADDRESS  
OF INSURANCE COMPANY

First Insurance Company of Hawaii Ltd  
P O Box 2866  
Honolulu Hi 96803

First Liberty Insurance Corporation  
175 Berkeley Street  
Boston MA 02117

First Net Insurance Company  
101 Agana Shopping Center  
Hagatna GU 96910

Fortis Benefits Insurance Company  
P O Box 62471  
St Paul MN 55164

General Security Insurance Company  
Two World Trade Center  
New York NY 10048

Globe Life & Accident Ins Company  
204 North Robinson Avenue  
Oklahoma City OK 73102

GMHP Health Insurance LTD  
177 Chalan Pasaheru Suite A  
Tamuning GU 96911

NAME AND ADDRESS  
OF GENERAL AGENT

Cassidy's Associated Insurers Inc  
376 West O'Brien Drive  
Hagatna GU 96910

Takagi & Associates Inc  
414 W Soledad Avenue  
GCIC Building  
Hagatna GU 96910

Anne Palacios  
414 West Soledad Avenue  
GCIC Building  
Hagatna GU 96910

Moylan's Insurance Underwriters Inc  
101 Agana Shopping Center  
Hagatna GU 96910

World Marketing Alliance Inc Guam  
Calvo's Insurance Bldg Suite 200  
115 Chalan Santo Papa  
Hagatna GU 96910

Cassidy's Associated Insurers Inc  
376 West O'Brien Drive  
Hagatna GU 96910

Joseph M. Casey  
Holiday Tower Condo Apt 615  
788 Route 4  
Sinajana GU 96926

Calvo's Insurance Underwriters Inc  
115 Chalan Santo Papa  
Hagatna GU 96910

TS Inc  
845 N Marine Drive Suite 11  
Tumon GU 96911

NAME AND HOME ADDRESS  
OF INSURANCE COMPANY

Grand Pacific Life Insurance Co Ltd  
1164 Bishop Street Suite 500  
Honolulu HI 96813

Grand Pacific Life Insurance Co Ltd  
1164 Bishop Street Suite 500  
Honolulu HI 96813

Great American Life Insurance Co  
P O Box 5420 Mail Drop 250-23-5 C  
Cincinnati OH 45201

Great-West Life & Annuity Insurance Co  
8515 East Orchard Road  
Englewood CO 80111

Gulf Insurance Company  
4600 Fuller Drive  
Irving Texas 75038

Hartford Life & Accident Insurance Co  
P O Box 2999  
Hartford CT 06104

Individual Assurance Company  
Life Health & Accident  
1600 OAK Street  
Kansas City MO 64108

Insurance Company of North America  
1601 Chestnut Street  
P O Box 7716  
Philadelphia PA 19192

NAME AND ADDRESS  
OF GENERAL AGENT

Great National Insurance Underwriter  
Great National Insurance Bldg  
Chalan San Antonio  
Tamuning GU 96911

Pacific Financial Corporation  
973 S Marine Drive Suite 101  
Tamuning GU 96911

Takagi & Associates Inc  
414 W Soledad Avenue  
GCIC Building  
Hagatna GU 96910

Guam Imperial International Inc  
231 Hesler Place  
Hagatna GU 96910

Benefits Communication Corp  
424B Route 8  
Mongmong GU 96927

Cassidy's Associated Insurers Inc  
376 West O'Brien Drive  
Hagatna GU 96910

Primo Mabesa  
1296 North Marine Drive Suite 2  
Tamuning GU 96911

Joaquin C. Arriola  
259 Martyr Street Suite 201  
Hagatna GU 96910

Anne M. Palacios  
414 W Soledad Avenue  
GCIC Building Suite 9  
Hagatna GU 96910

NAME AND HOME ADDRESS  
OF INSURANCE COMPANY

Insurance Company of North America  
1601 Chestnut Street  
P O Box 7716  
Philadelphia PA 19192

Intercargo Insurance Company  
1450 E American Lane 20th Floor  
Schaumburg IL 60173

Jefferson Pilot Financial Insurance  
One Granite Place  
Concord NH 03301

Jefferson-Pilot Life Insurance Company  
100 North Greene Street  
Greensboro NC 27401

John Alden Life Insurance Company  
5100 Gamble Drive  
St Louis Park MN 55416

John Hancock Life Insurance Company  
PO Box 111  
Boston MA 02117

Knights of Columbus  
One Columbus Plaza  
New Haven CT 06510

Liberty National Life Insurance Company  
P O Box 2612  
Birmingham AL 35202

NAME AND ADDRESS  
OF GENERAL AGENT

Takagi & Associates Inc  
414 W Soledad Avenue  
GCIC Building Suite 100  
Hagatna GU 96910

Takagi & Associates Inc  
414 W Soledad Avenue  
GCIC Building Suite 100  
Hagatna GU 96910

Money Resources Inc  
415 Chalan San Antonio #210  
Tamuning GU 96911

Money Resources Inc  
415 Chalan San Antonio # 210  
Tamuning GU 96911

William A. Dippel  
Terrace Condominium #D 50  
Tumon GU 96911

Money Resources Inc  
415 Chalan San Antonio #210  
Tamuning GU 96911

Jesus A. Baza  
125 Granada Lane  
Sinajana GU 96910

Joseph M. Casey  
Holiday Tower Condo Apt 615  
Route 4  
Sinajana GU 96926

Independent Research Agency for  
Life Insurance  
Hong's Building Suite 5  
Route 10 & 32  
Mangilao GU 96923

NAME AND HOME ADDRESS  
OF INSURANCE COMPANY

Lincoln Benefit Life Company  
3075 Sanders Road H2C  
Northbrook IL 60062

Lincoln National Life Insurance Co  
1300 South Clinton Street  
Fort Wayne IN 46802

LM Insurance Corporation  
175 Berkeley Street  
Boston MA 02117

NAME AND ADDRESS  
OF GENERAL AGENT

Jesus Dela Cruz  
231 Hesler Street  
Hagatna GU 96910

Patrocel N. Duque  
231 Hesler Street  
Hagatna GU 96910

Jacqueline T. Flores  
231 Hesler Street  
Hagatna GU 96910

Roger Surban  
615 Harmon Loop Road Suite 201  
(C) Tonko Reyes Comm Complex  
Dededo GU 96912

Takagi & Associates Inc  
414 W Soledad Avenue  
GCIC Building Suite 100  
Hagatna GU 96910

The Money Tree Inc  
231 Hesler Street  
Hagatna GU 96910

Dale M. Donovan  
790 N Marine Drive #496  
Tumon GU 96911

David W. Cassidy  
376 West O'Brien Drive  
Hagatna GU 96910

Anne M. Palacios  
414 W Soledad Avenue  
GCIC Building Suite 9  
Hagatna GU 96910

NAME AND HOME ADDRESS  
OF INSURANCE COMPANY

LM Insurance Corporation  
175 Berkeley Street  
Boston MA 02117

Lumbermens Mutual Casualty Co  
One Kemper Drive  
Long Grove IL 60049

Lyndon Life Insurance Company  
520 Maryville Center Drive Suite 500  
St Louis MO 63141

Manufacturers Life Insurance Co (USA)  
P O Box 6400  
Buffalo NY 14201-0604

MBIA Insurance Corporation  
113 King Street  
Armonk NY 10504

Merrill Lynch Life Insurance Co.  
4804 Deer Lane Drive East 4th Floor  
Jacksonville FL 33246

Midland Life Insurance Company The  
250 East Broad Street  
Columbus OH 43215

Midland National Life Insurance Co  
One Midland Plaza  
Sioux Falls SD 57193

Mitsui Marine & Fire Insurance  
Company LTD  
9 Kanda Surugadai, 3-Chome  
Chiyoda-Ku, Tokyo, Japan

NAME AND ADDRESS  
OF GENERAL AGENT

Takagi & Associates Inc  
414 W Soledad Avenue  
GCIC Building Suite 100  
Hagatna GU 96910

Cassidy's Associated Insurers Inc  
376 West O'Brien Drive  
Hagatna GU 96910

Joaquin C. Arriola  
259 Martyr Street Suite 201  
Hagatna GU 96910

Moylan's Insurance Underwriters Inc  
101 Hagatna Shopping Center  
Hagatna GU 96910

Moylan's Insurance Underwriters Inc  
101 Hagatna Shopping Center  
Hagatna GU 96910

Merrill Lynch Life Agency Inc  
134 Soledad Avenue Suite 406  
Hagatna GU 96910

Billy C. Acebron  
119 South Marine Drive Suite B1  
Tamuning GU 96911

Earl F. Foley  
Julale Shopping Center Suite 216  
424 W O'Brien Drive  
Hagatna GU 96910

AON Insurance Micronesia (Guam) I  
Hengi Plaza Suite 203  
278 South Marine Drive  
Tamuning GU 96911

NAME AND HOME ADDRESS  
OF INSURANCE COMPANY

MMI General Insurance Limited  
135 C Kayen Chando  
Sateena Mail Suite 207/208  
Dededo GU 96912

Monumental Life Insurance Company  
2 East Chase Street  
Baltimore MD 21202

MONY Life Insurance Company  
1740 Broadway  
New York NY 10019

National Travelers Life Company  
5700 Westown Parkway West  
Des Moines IA 50266

National Union Fire Insurance  
Company of Pittsburgh PA  
70 Pine Street  
New York NY 10270

National Western Life Insurance Co  
850 East Anderson Lane  
Austin TX 78752

Nationwide Life Insurance Company  
One Nationwide Plaza 1-27-08  
Columbus OH 43215

Nauru Insurance Corporation  
P O Box 82 AIWO District  
Republic of Nauru  
Central Pacific Nauru

NAME AND ADDRESS  
OF GENERAL AGENT

Moylan's Insurance Underwriters Inc  
101 Agana Shopping Center  
Hagatna GU 96910

Joseph M. Casey  
Holiday Tower Condo Apt 615  
788 Route 4  
Sinajana GU 96926

Independent Research Agency for  
Life Insurance  
Hong's Building Suite 5  
Route 10 & 32  
Mangilao GU 96923

Gayle & Teker  
300 Hernan Cortez Avenue #200  
Hagatna GU 96910

Joaquin C. Arriola  
259 Martyr Street Suite 201  
Hagatna GU 96910

Calvo's Insurance Underwriters Inc  
115 Chalan Santo Papa  
Hagatna GU 96910

Moylan's Insurance Underwriters Inc  
101 Agana Shopping Center  
Hagatna GU 96910

BWC Investment Services, Inc.  
1855 Gateway Blvd Suite 500  
Concord CA 94590

Calvo's Insurance Underwriters Inc  
115 Chalan Santo Papa  
Hagatna GU 96910



NAME AND HOME ADDRESS  
OF INSURANCE COMPANY

Netcare Life & Health Insurance  
101 Agana Shopping Center  
Hagatna GU 96910

New Hampshire Insurance Company  
70 Pine Street  
New York NY 10270

Nichido Fire & Marine Insurance Co  
N0 3-16 Ginza 5-Chome Chuo-Ku  
Tokyo 104 Japan

Nippon Fire & Marine Insurance  
Company, Ltd.  
2-10 Nihonbashi 2-Chome  
Tokyo 103 Japan

North Coast Life Insurance Company  
1116 West Riverside Avenue  
Spokane WA 99201

Occidental Life Insurance Company  
of America  
425 Austin Avenue  
P O Box 2595  
Waco TX 76702

Old Line Life Insurance Company  
of America The  
707 North Eleventh Street  
P O Box 401  
Milwaukee WI 53201

Old Republic Insurance Company  
414 West Pittsburgh Street  
Greensboro PA 15601

NAME AND ADDRESS  
OF GENERAL AGENT

Moylan's Insurance Underwriters Inc  
101 Agana Shopping Center  
Hagatna GU 96910

Calvo's Insurance Underwriters Inc  
115 Chalan Santo Papa  
Hagatna GU 96910

Calvo's Insurance Underwriters Inc  
115 Chalan Santo Papa  
Hagatna GU 96910

Nanbo Guam Ltd DBA:  
Nanbo Insurance Underwriters  
434 West O'Brien Drive  
Hagatna GU 96910

Moylan's Insurance Underwriters Inc  
101 Agana Shopping Center  
Hagatna GU 96910

Moylan's Insurance Underwriters Inc  
101 Agana Shopping Center  
Hagatna GU 96910

Joseph M. Casey  
Holiday Tower Condo Apt 615  
788 Route 4  
Sinajana GU 96926

Independent Research Agency for  
Life Insurance  
Hong's Building Suite 5  
Route 10 & 32  
Mangilao GU 96923

David W. Cassidy  
376 W O'Brien Drive  
Hagatna GU 96910

NAME AND HOME ADDRESS  
OF INSURANCE COMPANY

Old Republic National Title Ins Co  
400 Second Avenue S  
Minneapolis MN 55401

Pacific Guardian Life Insurance  
Company Ltd  
1440 Kapiolani Boulevard  
Suites 1600 & 1700  
Honolulu HI 96814

Pacific Indemnity Insurance Company  
P O Box 3580  
Hagatna GU 96932

Pacific Indemnity Insurance Company  
P O Box 3580  
Hagatna GU 96932

Pacificare Life Assurance Company  
3515 Harbor Boulevard  
Costa Mesa CA 92626

NAME AND ADDRESS  
OF GENERAL AGENT

Takagi Title Security Inc  
414 W Soledad Avenue  
GCIC Building  
Hagatna GU 96910

Dwayne K. Brown  
866 Chalan Palasyo (Rt.7) Ste.205  
Maina, Guam 96927

Calvo's Insurance Underwriters, Inc.  
115 Chalan Santo Papa  
Hagatna, Guam 96910

Citadel Trading Corporation DBA:  
Citadel Insurance Underwriters  
615 Harmon Loop Road Suite 201 C  
Tonko Reyes Comm Complex  
Dededo GU 96912

Nanbo Guam Ltd DBA  
Nanbo Insurance Underwriters  
434 West O'Brien Drive  
Hagatna GU 96910

Anacleto Q. Nicholas  
145 Chichirica Street  
Kaiser Dededo GU 96912

Cassidy's Associated Insurers Inc  
376 W O'Brien Drive  
Hagatna GU 96910

Prescott Hoeck dba:  
Guam Ventures  
121 Taison Way  
Barrigada GU 96913

The Baldwin Corporation  
790 S Marine Drive #1  
Tamuning GU 96911

NAME AND HOME ADDRESS  
OF INSURANCE COMPANY

PFL Life Insurance Company  
4333 Edgewood Road NE  
Cedar Rapids IA 52499

Primerica Life Insurance Company  
3120 Breckinridge Boulevard  
Duluth GA 30199

Progressive Casualty Insurance Co  
6300 Wilson Mills Road  
Mayfield Village OH 44143

Protective Life Insurance Company  
2801 Highway 280 South Birmingham  
Birmingham AL 35223

Pruco Life Insurance Company  
213 Washington Street  
Newark NJ 07102

NAME AND ADDRESS  
OF GENERAL AGENT

William A. Dippel  
Terrace Condominium #D 50  
Tumon GU 96911

Carmelita S. Concepcion  
Ada's Comm & Proff Center #202 B  
130 Marine Drive  
Hagatna GU 96910

Primerica Financial Services  
Insurance Marketing Inc  
Ada's Comm & Proff Center #202 B  
130 Marine Drive  
Hagatna GU 96910

Bernadita S. Quitugua  
136 Sampaguita Lane Latte Heights  
Mangilao GU 96923

The Baldwin Corporation  
790 South Marine Drive #1  
Tamuning GU 96911

Nanbo Guam Ltd., dba:  
Nanbo Insurance Underwriters  
434 West O'Brien Drive  
Hagatna GU 96910

Pacific Financial Corporation  
973 S Marine Drive Suite 101  
Tamuning GU 96911

John S. Pillsbury  
267 South Marine Drive 2F  
Tamuning GU 96911

Francisco B. Salas  
267 South Marine Drive Suite 2F  
Tamuning GU 96911

NAME AND HOME ADDRESS  
OF INSURANCE COMPANY

Prudential Insurance Company  
of America  
751 Broad Street  
Newark NJ 07102

QBE Insurance (International) Limited  
82 Pitt Street  
Sydney NSW 2000 Australia

Reliance Insurance Company  
Three Parkway  
5th Floor Compliance Department  
Philadelphia PA 19102

Reliance National Indemnity Company  
Three Parkway  
5th Floor Compliance Department  
Philadelphia PA 19102

Royal State National Insurance  
Company LTD  
819 South Beretania Street  
Honolulu HI 96813

Safeco Insurance Co of America  
Safeco Plaza  
Seattle WA 98185

Seaboard Surety Company of NY  
6225 Centennial Way  
Baltimore MD 21209

Security Benefit Life Insurance Co  
700 Harrison Street  
Topeka KS 66636

Security-Connecticut Life Insurance Co  
20 Security Drive  
Avon CT 06001

NAME AND ADDRESS  
OF GENERAL AGENT

John S. Pillsbury  
267 South Marine Drive Suite 2F  
Tamuning GU 96911

Sally E. Mondia  
674 Harmon Loop  
Dededo GU 96912

Takagi & Associates Inc  
414 West Soledad Avenue  
GCIC Building Suite 100  
Hagatna GU 96910

Takagi & Associates Inc  
414 West Soledad Avenue  
GCIC Building Suite 100  
Hagatna GU 96910

Gayle & Teker  
330 Hernan Cortez Avenue  
Hagatna GU 96910

Calvo's Insurance Underwriters Inc  
115 Chalan Santo Papa  
Hagatna GU 96910

Calvo's Insurance Underwriters Inc  
115 Chalan Santo Papa  
Hagatna GU 96910

Independent Research Agency for  
Life Insurance  
Hong's Building Suite 5  
Route 10 & 32  
Mangilao GU 96923

Life Investment Consultants Inc  
121 Basa Street  
Tamuning GU 96911

NAME AND HOME ADDRESS  
OF INSURANCE COMPANY

Security-Connecticut Life Insurance Co  
20 Security Drive  
Avon CT 06001

St Paul Fire & Marine Insurance Co  
385 Washington Street  
St Paul MN 55102

Standard Insurance Company  
1100 SW Sixth Avenue  
Portland OR 97204

Stewart Title Guaranty Company  
PO Box 2029  
Houston TX 77252

Surety Life Insurance Company  
3075 Sanders Road H2C  
Northbrook IL 60062

Surety Life Insurance Company  
3075 Sanders Road H2C  
Northbrook IL 60062

NAME AND ADDRESS  
OF GENERAL AGENT

Pacific Financial Corporation  
973 South Marine Drive Suite 101  
Tamuning GU 96911

Primo Mabesa dba: PM Ins  
& Financial Planning Svcs  
790 North Marine Drive Suite 880  
Tamuning GU 96911

Regis Insurance Inc  
118 East Marine Drive Suite B2  
Dededo GU 96912

Calvo's Insurance Underwriters Inc  
115 Chalan Santo Papa  
Hagatna GU 96910

Moylan's Insurance Underwriters Inc  
101 Agana Shopping Center  
Hagatna GU 96910

Joaquin C. Arriola  
259 Martyr Street Suite 201  
Hagatna GU 96910

Manu P. Melwani  
715 Chalan Machaute Suite 101  
Maite GU 96927

Jesus M. Dela Cruz  
166 Carlos Lane  
Mangilao GU 96923

Jacqueline T. Flores  
231 Hesler Place  
Hagatna GU 96910

Moylan's Insurance Underwriters Inc  
101 Agana Shopping Center  
Hagatna GU 96910

NAME AND HOME ADDRESS  
OF INSURANCE COMPANY

Surety Life Insurance Company  
3075 Sanders Road H2C  
Northbrook IL 60062

Terrace Guam Ltd  
134 West Soledad Avenue  
Bank of Hawaii Building Suite 401  
Hagatna GU 96910

Ticor Title Insurance Company  
171 North Clark Street 6th Floor  
Chicago IL 60601

Tokio Marine & Fire Insurance  
Company Limited  
2-1 Marunouchi 1-Chome Chiyoda-Ku  
Tokyo Japan

Trans World Assurance Company  
885 South El Camino Real  
San Mateo CA 94402

Transamerica Assurance Company  
PO Box 2101  
Los Angeles CA 90051

Transamerica Life Insurance &  
Annuity Company  
PO Box 54178  
Los Angeles CA 90054

Transamerica Occidental Life Ins Co  
1150 South Olive Street  
Los Angeles CA 90054

NAME AND ADDRESS  
OF GENERAL AGENT

Roger S. Surban  
46 Anaco Lane  
Nimitz Hill Estate  
Piti GU 96910

The Money Tree Inc  
231 Hesler Place  
Hagatna GU 96910

Title Guaranty of Guam  
Hernan Cortez Avenue  
Hagatna GU 96910

Nanbo Guam Ltd dba:  
Nanbo Insurance Underwriters  
434 West O'Brien Drive  
Hagatna GU 96910

Dale M. Donovan  
790 North Marine Drive Suite 496  
Tumon GU 96911

Ralph G. Taitano  
130 Aspinall Street Suite 2BE  
Hagatna GU 96910

Ralph G. Taitano  
130 Aspinall Street Suite 2BE  
Hagatna GU 96910

Ralph G. Taitano  
130 Aspinall Street Suite 2BE  
Hagatna GU 96910

NAME AND HOME ADDRESS  
OF INSURANCE COMPANY

Surety Life Insurance Company  
3075 Sanders Road H2C  
Northbrook IL 60062

Terrace Guam Ltd  
134 West Soledad Avenue  
Bank of Hawaii Building Suite 401  
Hagatna GU 96910

Ticor Title Insurance Company  
171 North Clark Street 6th Floor  
Chicago IL 60601

Tokio Marine & Fire Insurance  
Company Limited  
2-1 Marunouchi 1-Chome Chiyoda-Ku  
Tokyo Japan

Trans World Assurance Company  
885 South El Camino Real  
San Mateo CA 94402

Transamerica Assurance Company  
PO Box 2101  
Los Angeles CA 90051

Transamerica Life Insurance &  
Annuity Company  
PO Box 54178  
Los Angeles CA 90054

Transamerica Occidental Life Ins Co  
1150 South Olive Street  
Los Angeles CA 90054

NAME AND ADDRESS  
OF GENERAL AGENT

Roger S. Surban  
46 Anaco Lane  
Nimitz Hill Estate  
Piti GU 96910

The Money Tree Inc  
231 Hesler Place  
Hagatna GU 96910

Title Guaranty of Guam  
Hernan Cortez Avenue  
Hagatna GU 96910

Nanbo Guam Ltd dba:  
Nanbo Insurance Underwriters  
434 West O'Brien Drive  
Hagatna GU 96910

Dale M. Donovan  
790 North Marine Drive Suite 496  
Tumon GU 96911

Ralph G. Taitano  
130 Aspinall Street Suite 2BE  
Hagatna GU 96910

Ralph G. Taitano  
130 Aspinall Street Suite 2BE  
Hagatna GU 96910

Ralph G. Taitano  
130 Aspinall Street Suite 2BE  
Hagatna GU 96910

NAME AND HOME ADDRESS  
OF INSURANCE COMPANY

Travelers Casualty and Surety Co  
One Tower Square  
Hartford CT 06183

Travelers Indemnity Company  
One Tower Square  
Hartford CT 06183

Travelers Insurance Company  
One Tower Square  
Hartford CT 06183

United of Omaha Life Insurance Co  
Mutual of Omaha Plaza  
Omaha NE 68175

United Pacific Insurance Company  
Three Parkway  
Compliance Department 5th Floor  
Philadelphia PA 19102

United Services Automobile Assn  
9800 Fredericksburg Road  
San Antonio TX 78288

United States Fire Insurance Company  
305 Madison Avenue  
Morrison NJ 07960

UNUM Life Insurance Company  
of America  
2211 Congress Street  
Portland ME 04122

USAA Casualty Insurance Company  
9800 Fredericksburg Road  
San Antonio TX 78288

NAME AND ADDRESS  
OF GENERAL AGENT

Moylan's Insurance Underwriters Inc  
101 Agana Shopping Center  
Hagatna GU 96910

Moylan's Insurance Underwriters Inc  
101 Agana Shopping Center  
Hagatna GU 96910

Moylan's Insurance Underwriters Inc  
101 Agana Shopping Center  
Hagatna GU 96910

Earl L. Foley  
P O Box BO  
Hagatna GU 96910

Takagi & Associates Inc  
414 West Soledad Avenue  
GCIC Building Suite 100  
Hagatna GU 96910

Calvo's Insurance Underwriters Inc  
115 Chalan Santo Papa  
Hagatna GU 96910

Cassidy's Associated Insurers Inc  
376 West O'Brien Drive  
Hagatna GU 96910

Moylan's Insurance Underwriters  
101 Agana Shopping Center  
Hagatna GU 96910

Calvo's Insurance Underwriters Inc  
115 Chalan Santo Papa  
Hagatna GU 96910

Cassidy's Associated Insurers Inc  
376 West O'Brien Drive  
Hagatna GU 96910



NAME AND HOME ADDRESS  
OF INSURANCE COMPANY

USAA General Indemnity Company  
9800 Fredericksburg Road  
San Antonio TX 78288

Western Reserve Life Assurance  
Company of Ohio  
P O Box 5068  
Clearwater FL 33758

Western-Southern Life Assurance Co  
P O Box 1119  
Cincinnati OH 45202

Westport Insurance Corporation  
P O Box 2979  
Overland KA 66201

Zurich Insurance (Guam) Inc  
GCIC Building Suite 900  
414 West Soledad Avenue  
Hagatna GU 96910

NAME AND ADDRESS  
OF GENERAL AGENT

Nanbo Insurance Underwriters  
434 West O'Brien Drive  
Hagatna GU 96910

Calvo's Insurance Underwriters Inc  
115 Chalan Santo Papa  
Hagatna GU 96910

Billy C. Acebron  
119 South Marine Drive Suite B1  
Tamuning GU 96911

Glenn Meno  
400 Route 8  
Maite GU 96927

AON Insurance Micronesia (Guam) I  
Hengi Plaza #203  
278 South Marine Drive  
Tamuning GU 96911

D B Davis & Associates  
430 West Soledad Avenue  
Staywell Building  
Hagatna GU 96910

**Appendix D Major Shareholders Disclosure Affidavit**

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**GUAM POWER AUTHORITY**  
**ATURIDAD ILEKTRESEDAT GUAHAN**  
**P.O. BOX 2977 • HAGATNA, GUAM, USA 96932-2977**

**SPECIAL PROVISION FOR  
MAJOR SHAREHOLDERS DISCLOSURE AFFIDAVIT**

All Bidders/Offerors are required to submit a current affidavit as required below. Failure to do so will mean disqualification and rejection of the Bid/RFP.

**GCA §5233 (Title 5, Section 5233) states:**

“Section 5233 Disclosure of Major Shareholders. As a condition of submitting a bid or offer, any partnership, sole proprietorship or corporation doing business with the government of Guam shall submit an affidavit executed under oath that lists the name and address of any person who has held more than ten percent (10%) of the outstanding interest or shares in said partnership, sole proprietorship or corporation at any time during the twelve (12) month period immediately preceding submission of a bid, or, that it is a not for profit organization that qualifies for tax exception under the Internal Revenue Code of the United States or the Business Privilege Tax law of Guam, Title 12 Guam Code Annotated. Section 269203©. With the exception of not for profit organizations, the affidavit shall contain the number of shares or the percentage of all assets of such partnership, sole proprietorship or corporation which have held by each such person during the twelve (12) month period. In addition, the affidavit shall contain the name and address of any person who has received or is entitled to receive a commission, gratuity or other compensation for procuring or assisting obtaining business related to the bid or offer and shall also contain the amounts of any such commission, gratuity or other compensation. The affidavit shall be open and available to the public for inspection and copying.

- 1. If the affidavit is a copy, indicate the Bid/RFP number and where it is filed.**
- 2. Affidavits must be signed within 60 days of the date the bids or proposals are due.**

**MAJOR SHAREHOLDERS OF DISCLOSURE AFFIDAVIT**

TERRITORY OF GUAM )  
 ) ss.  
 HAGATNA, GUAM )

I, undersign, \_\_\_\_\_, being first duly sworn, deposes  
 (partner or officer of the company of, etc.)  
 and says:

1. That the persons who have held more than ten percent (10%) of the company's shares during the past twelve (12) months are as follows:

<u>Name</u>	<u>Address</u>	<u>Percentage of Shares Held</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
Total number of shares:		_____

2. Persons who have received or are entitled a commission, gratuity or other compensation or procuring or assisting in obtaining business related to the Bid/RFP for which this Affidavit is submitted are as follows:

<u>Name</u>	<u>Address</u>	<u>Amount of Commission Gratuity or other Compensation</u>
_____	_____	_____
_____	_____	_____

Further, affiant sayeth naught.

Date: \_\_\_\_\_

\_\_\_\_\_  
 Signature of individual if bidder/offeror is a sole proprietorship; Partner, if the bidder/offeror is a partnership; Officer, if the bidder/offeror is a corporation.

Subscribe and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2018.

Notary Public \_\_\_\_\_  
 In and for the Territory of Guam  
 My Commission expires \_\_\_\_\_

**Appendix E                  Non Collusion Affidavit**

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**NON-COLLUSION AFFIDAVIT**

Guam )  
 )ss:  
Hagatna )

I, \_\_\_\_\_ first being duly sworn, depose and say:  
(Name of Declarant)

1. That I am the \_\_\_\_\_ of the \_\_\_\_\_.  
(Title) (Name of Bidding/RFP Company)
2. That in making the foregoing proposal or bid, that such proposal or bid is Genuine and not collusive or sham, that said bidder/offeror has not colluded, conspired or agreed, directly or indirectly, with any bidder or person, to put in a sham or to refrain from bidding or submitting a proposal and has not in any manner, directly or indirectly, sought by agreement or collusion, or communication or conference, with any person, to fix the bid of affiant or any other bidder, or to secure any overhead, project or cost element of said bid price, or of that of any bidder, or to secure any advantage against the GUAM POWER AUTHORITY or any person interested in the proposed contract; and
3. That all statements in said proposal or bid are true.
4. This affidavit is made in compliance with Guam Administrative Rules and Regulations §§3126(b).

\_\_\_\_\_  
(Declarant)

SUBSCRIBED AND SWORN to me before this \_\_\_\_\_ day of \_\_\_\_\_ 2018.

\_\_\_\_\_  
Notary Public  
In and for the Territory of Guam  
My commission expires: \_\_\_\_\_

**Appendix F                      No Gratuities or Kickbacks Affidavit**

---

**NO GRATUITIES OR KICKBACKS AFFIDAVIT**

**AFFIDAVIT**

(Offeror)

**TERRITORY OF GUAM )**  
**)ss:**  
**HAGATNA, GUAM )**

\_\_\_\_\_, being first duly sworn, deposes and says:

As the duly authorized representative of the Offeror, that neither I nor of the Offeror’s officers, representatives, agents, subcontractors, or employees has or have offered, given or agreed to give any government of Guam employee or former employee, any payment, gift, kickback, gratuity or offer of employment in connection with Offeror’s proposal.

\_\_\_\_\_  
Signature of Individual if Proposer is a Sole Proprietorship;  
Partner, if the Proposer is a Partnership;  
Officer, if the Proposer is a Corporation

**SUBCRIBED AND SWORN** to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2018.

Notary Public \_\_\_\_\_  
In and for the Territory of Guam  
My Commission Expires: \_\_\_\_\_



**Appendix G                      Ethical Standards Affidavit**

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**ETHICAL STANDARDS AFFIDAVIT**

**AFFIDAVIT**

(Proposer)

**TERRITORY OF GUAM )**

) **ss:**

**HAGATNA, GUAM )**

\_\_\_\_\_, being first duly sworn, deposes and says:

That I am (the Sole Proprietor, a Partner or Officer of the Offeror)

That Offeror making the foregoing Proposal, that neither he or nor of the Offeror’s officers, representatives, agents, subcontractors, or employees of the Offeror have knowingly influenced any government of Guam employee to breach any of the ethical standards set forth in 5 GCA Chapter 5 Article 11, and promises that neither he nor any officer, representative, agent, subcontractor, or employee of Offeror will knowingly influence any government of Guam employee to breach any ethical standard set for in 5 GCA Chapter 5 Article 11.

\_\_\_\_\_  
Signature of Individual if Proposer is a Sole Proprietorship;  
Partner, if the Proposer is a Partnership;  
Officer, if the Proposer is a Corporation

**SUBSCRIBED AND SWORN** to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2018.

\_\_\_\_\_  
Notary Public  
In and for the Territory of Guam  
My Commission Expires: \_\_\_\_\_

**Appendix H                      Declaration Re Compliance with US DOL Wage Determination**

---

**DECLARATION RE-COMPLIANCE WITH U.S. DOL WAGE DETERMINATION**

Procurement No.: \_\_\_\_\_

Name of Offeror Company: \_\_\_\_\_

hereby certifies under penalty of perjury:

- (1) That I am \_\_\_\_\_ (the offeror, a partner of the offeror, an officer of the offeror) making the bid or proposal in the foregoing identified procurement;
- (2) That I have read and understand the provisions of 5 GCA § 5801 and § 5802 which read:

**§ 5801. Wage Determination Established.**

In such cases where the government of Guam enters into contractual arrangements with a sole proprietorship, a partnership or a corporation ('contractor') for the provision of a service to the government of Guam, and in such cases where the contractor employs a person(s) whose purpose, in whole or in part, is the direct delivery of service contracted by the government of Guam, then the contractor shall pay such employee(s) in accordance with the Wage Determination for Guam and the Northern Mariana Islands issued and promulgated by the U.S. Department of Labor for such labor as is employed in the direct delivery of contract deliverables to the government of Guam.

The Wage Determination most recently issued by the U.S. Department of Labor at the time a contract is awarded to a contractor by the government of Guam shall be used to determine wages, which shall be paid to employees pursuant to this Article. Should any contract contain a renewal clause, then at the time of renewal adjustments, there shall be made stipulations contained in that contract for applying the Wage Determination, as required by this Article, so that the Wage Determination promulgated by the U.S. Department of Labor on a date most recent to the renewal date shall apply.

**§ 5802. Benefits.**

In addition to the Wage Determination detailed in this Article, any contract to which this Article applies shall also contain provisions mandating health and similar benefits for employees covered by this Article, such benefits having a minimum value as detailed in the Wage Determination issued and promulgated by the U.S. Department of Labor, and shall contain provisions guaranteeing a minimum of ten (10) paid holidays per annum per employee.

- (3) That the offeror is in full compliance with 5 GCA § 5801 and § 5802, as may be applicable to the procurement referenced herein;

**SUBSCRIBED AND SWORN** to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2018.

\_\_\_\_\_  
 Notary Public  
 In and for the Territory of Guam  
 My Commission Expires:

**Appendix I Bid Bond Form and Instructions**

---



**GUAM POWER AUTHORITY**  
**ATURIDAD ILEKTRESEDAT GUAHAN**  
**P.O. BOX 2977 • HAGATNA, GUAM, USA 96932-2977**

**BID BOND**

NO.: \_\_\_\_\_

KNOW ALL MEN BY THESE PRESENTS that \_\_\_\_\_, as

Principal Hereinafter called the Principal, and (Bonding Company), \_\_\_\_\_, a duly admitted insurer under the laws of the Territory of Guam, as Surety, hereinafter called the Surety are held firmly bound unto the Territory of Guam for the sum of \_\_\_\_\_ Dollars (\$\_\_\_\_\_), for Payment of which sum will and truly to be made, the said Principal and the said Surety bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a bid for (identify project by number and brief description)

\_\_\_\_\_

NOW, THEREFORE, if the Territory of Guam shall accept the bid of the Principal and the Principal shall enter into a Contract with the Territory of Guam in accordance with the terms of such bid, and give such bond or bonds as may be specified in bidding or Contract documents with good and sufficient surety for the faithful performance of such Contract Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such Contract and give such bond or bonds, if the Principal shall pay to the Territory of Guam the difference not to exceed the penalty hereof between the amounts specified in said bid and such larger amount for which the Territory of Guam may in good faith contract with another party to perform work covered by said bid or an appropriate liquidated amount as specified in the Invitation for Bids then this obligation shall be null and void, otherwise to remain full force and effect.

Signed and sealed this \_\_\_\_\_ day of \_\_\_\_\_ 2018.

\_\_\_\_\_  
(PRINCIPAL) (SEAL)

\_\_\_\_\_  
(WITNESS)

\_\_\_\_\_  
(TITLE)

\_\_\_\_\_  
(MAJOR OFFICER OF SURETY)

\_\_\_\_\_  
(MAJOR OFFICER OF SURETY)

\_\_\_\_\_  
(TITLE)

\_\_\_\_\_  
(TITLE)

\_\_\_\_\_  
(RESIDENT GENERAL AGENT)

**SEE INSTRUCTIONS FOR SUPPORTING DOCUMENTS REQUIRED**

## **INSTRUCTION TO PROVIDERS**

NOTICE to all Insurance and Bonding Institutions:

The Bond requires the signatures of the Vendor, two (2) major Officers of the Surety and Resident General Agent, if the Surety is a foreign or alien surety.

When the form is submitted to the Guam Power Authority, it should be accompanied with copies of the following:

1. Current Certificate of Authority to do business on Guam issued by the Department of Revenue and Taxation.
2. Power of Attorney issued by the Surety to the Resident General Agent.
3. Power of Attorney issued by two (2) major officers of the Surety to whoever is signing on their behalf.

Bonds submitted as Bid Guarantee, without signatures and supporting documents are invalid and Bids will be rejected

**Appendix J**

**Restriction against Sex Offenders Employed by Service Providers to  
Government of Guam from Working on Government of Guam Property**

---



**SPECIAL PROVISIONS**

GCA 5 §5253 Restriction Against Contractors Employing Convicted Sex Offenders from Working at Government of Guam Venues:

- (a) No person convicted of a sex offense under the provisions of Chapter 25 of Title 9 Guam Code Annotated, or an offense as defined in Article 2 of Chapter 28, Title 9 GCA in Guam, or an offense in any jurisdiction which includes, at a minimum, all of the elements of said offenses, or who is listed on the Sex Offender Registry, and who is employed by a business contracted to perform services for an agency or instrumentality of the government of Guam, shall work for his employer on the property of the Government of Guam other than public highway.
- (b) All contracts for services to agencies listed herein shall include the following provisions: (1) warranties that no person providing services on behalf of the contractor has been convicted of a sex offense under the provisions of Chapter 25 of Title 9 GCA or an offense as defined in Article 2 of Chapter 28, Title 9 GCA, or an offense in another jurisdiction with, at a minimum, the same elements as such offenses, or who is listed on the Sex Offender Registry; and (2) that if any person providing services on behalf of the contractor is convicted of a sex offense under the provisions of Chapter 25 of Title 9 GCA or an offense as defined in Article 2 of Chapter 28, Title 9 GCA or an offense in another jurisdiction with, at a minimum, the same elements as such offenses, or who is listed on the Sex Offender Registry, that such person will be immediately removed from working at said agency and that the administrator of said agency be informed of such within twenty-four (24) hours of such conviction.
- (c) Duties of the General Services Agency or Procurement Administrators. All contracts, bids, or Requests for Proposals shall state all the conditions in § 5253(b).
- (d) Any contractor found in violation of § 5253(b), after notice from the contracting authority of such violation, shall, within twenty-four (24) hours, take corrective action and shall report such action to the contracting authority. Failure to take corrective action within the stipulated period may result in the temporary suspension of the contract at the discretion of the contracting authority.

*SOURCE: Added by P.L. 28-024:2 (Apr. 21, 2005). Amended by P.L. 28-098:2 (Feb. 7, 2006).*

Signature of Bidder	Date
Proposer, if an individual;	
Partner, if a partnership;	
Officer, if a corporation.	

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 2018.

\_\_\_\_\_  
 Notary Public  
 In and for the Territory of Guam  
 My Commission Expires:

**Appendix K                    Local Procurement Preference Application**

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**GUAM POWER AUTHORITY**  
**ATURIDAD ILEKTRESEDAT GUAHAN**  
**P.O. BOX 2977 • HAGATNA, GUAM, USA 96932-2977**

**LOCAL PROCUREMENT PREFERENCE APPLICATION**

Based on the law stipulated below, please place a checkmark or an "X" on the block indicating the item that applies to your business:

5GCA, Chapter 5, Section 5008, "Policy in Favor of Local Procurement" of the Guam Procurement Law states:

All procurement of supplies and services shall be made from among businesses licensed to do business on Guam and that maintains an office or other facility on Guam, whenever a business that is willing to be a contractor is:

- ( ) (a) A licensed bonafide manufacturing business that adds at least twenty-five percent (25%) of the value of an item, not to include administrative overhead, suing workers who are U.S. Citizens or lawfully admitted permanent residents or nationals of the United States, or persons who are lawfully admitted to the United States to work, based on their former citizenship in the Trust Territory for the Pacific Islands; or
- ( ) (b) A business that regularly carries an inventory for regular immediate sale of at least fifty percent (50%) of the items of supplies to be procured; or
- ( ) (c) A business that has a bonafide retail or wholesale business location that regularly carries an inventory on Guam of a value of at least one half of the value of the bid or One Hundred Fifty Thousand Dollars (\$150,000.0) whichever is less, of supplies and items of a similar nature to those being sought; or
- ( ) \*(d) A service actually in business, doing a substantial business on Guam, and hiring at least 95% U.S. Citizens, lawfully admitted permanent residents or national of the United States, or persons who lawfully admitted to the United States to work, based on their citizenship in any of the nations previously comprising the Trust Territory of the Pacific Islands.

- Bidders indicating qualification under (d) may be considered QUALIFIED for the Local Procurement Preference, **only if** the Government's requirement is for service. Service is defined Pursuant to 5 GCA Government Operations Subparagraph 5030 entitled DEFINITIONS under Chapter 5 of the Guam Procurement Law.

1. I \_\_\_\_\_, representative for \_\_\_\_\_, have read the requirements of the law cited above and do hereby qualify and elect to be given the LOCAL PROCUREMENT PREFERENCE for Bid No.: GPA \_\_\_\_\_. By filling in this information and placing my signature below, I understand that the Guam Power Authority will review this application and provide me with a determination whether or not the 15% preference will be applied to this bid.
2. I \_\_\_\_\_, representative for \_\_\_\_\_, have read the requirements of the law cited above, and do not wish to apply for the Local Procurement Preference for Bid No.: GPA \_\_\_\_\_.

\_\_\_\_\_  
 Bidder Representative Signature

\_\_\_\_\_  
 Date

**NOTE:**

Prospective Bidders/Offerors completing this form will automatically be not considered for Local Procurement Preference. Non-completion of this form is not a basis for rejection of the bid or proposal.

**Appendix L            Total Bid Cost**

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### Total Bid Cost List

**Must be submitted in a separate sealed envelope marked "Price Proposal".**

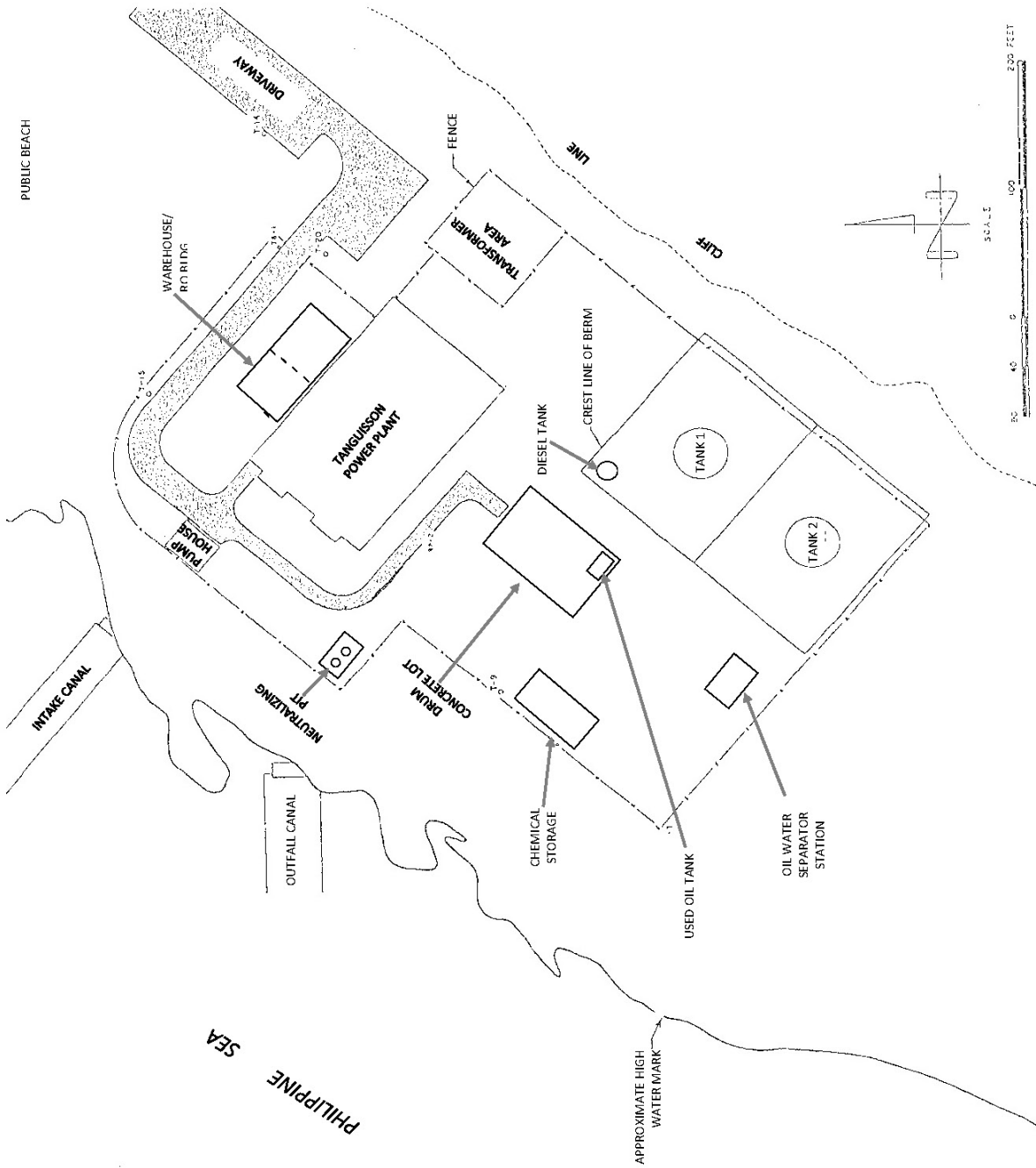
ITEM	COST/UNIT	QTY.	TANGUISSON POWER PLANT (COST)	QTY.	DEDEDO DIESEL POWER PLANT (COST)
1. Asbestos Containing Materials (ACM) Removal and Disposal	\$ / cu.yds.				
2. Lead-Based and Lead-Containing Paint Removal and Disposal	Lot	1		1	
3. Polychlorinated Biphenyl (PCB) Removal and Disposal	\$ / drum				
3. Mercury-Containing Sources Removal and Disposal	\$ / drum				
4. Containerized Hazardous Substances / Regulated Materials (CHSM) Removal and Disposal	Lot	1		1	
	<b>TOTAL</b>				

**Appendix M            Facility Site Plan**

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# Tanguisson Power Plant

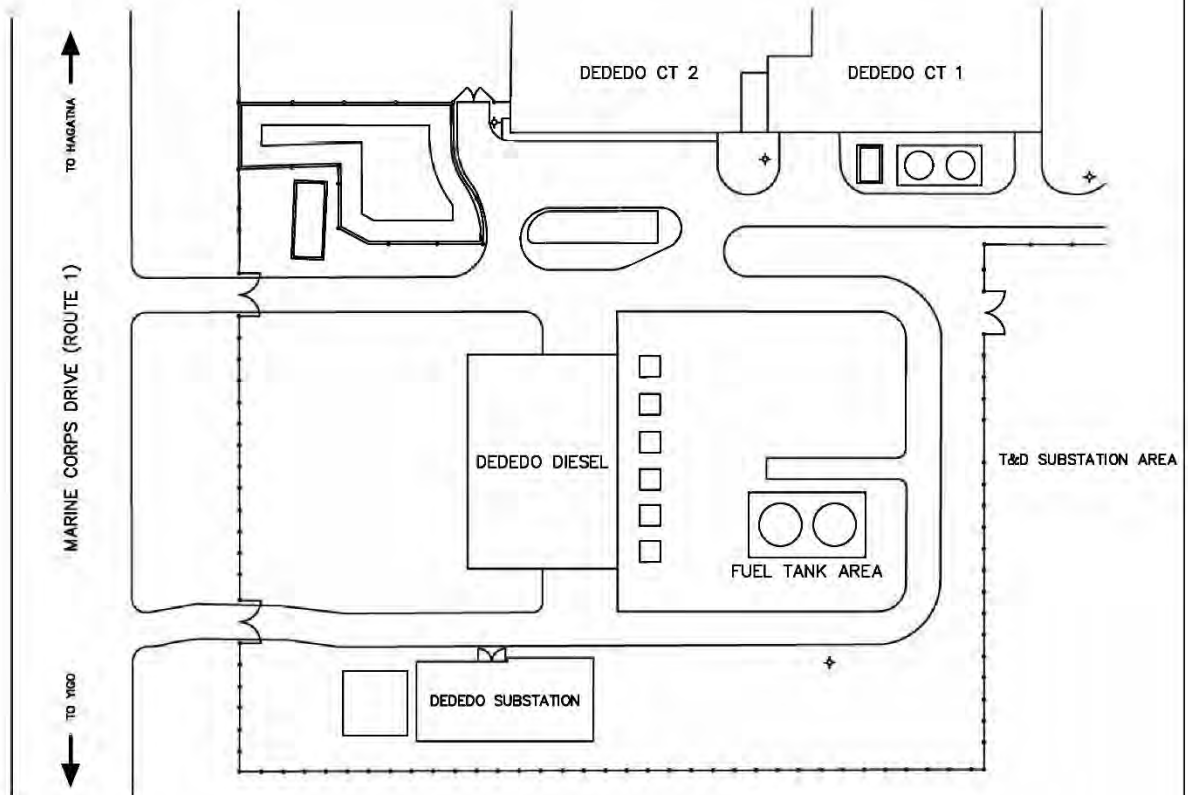
## Site Plan



# GUAM POWER AUTHORITY

## HAZARDOUS MATERIALS SURVEY

### DEDEDO DIESEL POWER PLANT



NOT TO SCALE

 <b>GUAM POWER AUTHORITY</b> P.O. BOX 2977, AGANA, GUAM, USA 96910	
<small>DRAWING NO.</small> C-2	SITE PLAN



**APPENDIX N - HAZARDOUS MATERIAL SURVEY DATA REPORT- TANGUISSON POWER PLANT**



# **HAZARDOUS MATERIALS SURVEY DATA REPORT**

## **TANGUISSON POWER PLANT**

31 August 2017

Prepared By



EA Engineering, Science, & Technology, Inc., PBC  
1001 Army Drive, Suite 103  
Barrigada, Guam 96913



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# **HAZARDOUS MATERIALS SURVEY DATA REPORT**

## **TANGUISSON POWER PLANT**

31 August 2017

Prepared By



EA Engineering, Science, & Technology, Inc., PBC  
1001 Army Drive, Suite 103  
Barrigada, Guam 96913



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2	LEAD-BASED AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT
3	SUMMARY OF PCB-CONTAINING MATERIALS AT THE TANGUISSON POWER PLANT
4	SUMMARY OF PCB WIPE RESULTS
5	SUMMARY OF SOIL PCB RESULTS
6	SUMMARY OF MERCURY-CONTAINING SOURCES AT THE TANGUISSON POWER PLANT
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11	OPERATING FLOOR ACM SURVEY
12	AIR PREHEATER PLATFORM ACM SURVEY
13	DRUM DECK ACM SURVEY
14	SOIL SAMPLE LOCATIONS TANGUISSON POWER PLANT



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**LIST OF APPENDICES**

- APPENDIX A        2013 ASBESTOS INSPECTION REPORT
- APPENDIX B        PHOTO LOG
- APPENDIX C        LABORATORY RESULTS AND CHAIN OF CUSTODY RECORDS

**LIST OF ACRONYMS AND ABBREVIATIONS**

- ACM                Asbestos-Containing Materials
- CFR                Code of Federal Regulations
- EA                 EA Engineering, Science, and Technology, Inc., PBC
- GPA                Guam Power Authority
- HID                high-intensity discharge
- HUD                Department of Housing and Urban Development
- IFB                Invitation for Bid
- LBP                lead-based paint
- LCP                lead-containing paint
- MW                megawatts
- mg/cm<sup>2</sup>            milligrams per square centimeter
- mg/L               milligrams per liters
- MGD                million gallons per day
- OSHA              Occupational Safety and Health Administration
- PCB                polychlorinated biphenyl
- RCRA              The Resource Conservation and Recovery Act
- TCLP              Toxicity Characteristic Leaching Procedure
- XRF                X-ray Fluorescence Spectrum Analyzer

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## 1.0 EXECUTIVE SUMMARY

### Asbestos-Containing Materials (ACM)

The total volume of ACM at the Tanguisson Power Plant is 3,406 cubic feet (ft<sup>3</sup>).

General recommendations, based on the visual inspection and analytical results, are discussed in Section 5.3. Removal of identified ACM is recommended of those materials identified as asbestos-containing prior to demolition.

### Lead-Based Paint (LBP)

Testing was performed on existing painted surfaces using an X-Ray Fluorescence Spectrum Analyzer (XRF) to determine the lead content of the paint. Test results revealed that LBP (equal to or greater than 1.0 milligrams per square centimeter [mg/cm<sup>2</sup>]) is present in various components at the Tanguisson Power Plant. Those components include: RFO Tank 2 shell, RFO Tank 1, No. 2 light oil storage tank, bollards around the oil-water separator, red painted fire hydrants, interior basement walls and panels, painted pipes on all floors of the power plant, staircase railings, ground floor switch panels, GE Generators, painted I-beams and H-beams, control room green floor tile, and transformers.

### Polychlorinated Biphenyls (PCBs)

One hundred seventy-seven (177) light ballasts were identified at the Tanguisson Power Plant. Ballasts without "No PCBs" labeling were presumed to contain PCBs. Wipe samples and surface soil sample results contained PCB concentrations below the screening criteria.

### Mercury-Containing Sources

EA identified 945 fluorescent light tubes in varying lengths and 46 high-intensity discharge (HID) light bulbs at the Tanguisson Power Plant.

### Containerized Hazardous Substances/Regulated Materials

EA identified 130 different types of containerized hazardous substances and regulated materials at the Tanguisson Power Plant.

## 2.0 INTRODUCTION

EA Engineering, Science, and Technology, Inc., PBC (EA) was contracted by the Guam Power Authority (GPA) to conduct a Hazardous Materials Survey at the Tanguisson Power Plant ("the facility"), which is anticipated for future demolition. The Hazardous Materials Surveys was conducted in accordance with the requirements in the GPA Invitation for Bid (IFB) to include ACM, LBP, PCB-containing equipment, containerized wastes, and other miscellaneous regulated materials. Surveys at the facility were conducted from April through August 2017. This report presents the results of the surveys performed at the facilities main power plant structure, transformer pad, aboveground fuel and caustic liquid storage tanks, intake area, and all other outdoor buildings at the facility.



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### 3.0 LIMITATIONS

Our professional services have been performed, our findings obtained and our recommendations prepared in accordance with customary principles and practices in the field of environmental science and engineering. This statement is in lieu of other statements either expressed or implied. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

EA does not warrant that there are no environmental issues beyond those identified in this report, nor does EA accept any liability if such are found at some future time, or could have been found if sampling or additional studies were conducted. EA does not assume responsibility for other environmental issues that may be associated with the subject property.

This report is not intended to serve as a bidding document nor as a project specification document. Actual site conditions and quantities should be field-verified. Additionally, the passage of time may result in a change in the environmental characteristics at this site. The results, findings, conclusions, and recommendations expressed in this report are based only on conditions that were observed during EA's inspection of the site. In view of the rapidly changing status of environmental laws, regulations, and guidelines, EA cannot be responsible for changes in laws, regulations, or guidelines which occur after the study has been completed and which may affect the subject property.

This report was prepared for GPA by EA and is based in part on third-party information not within the control of EA. While it is believed that the third-party information contained herein will be reliable under the conditions and subject to the limitations set forth herein, EA does not guarantee the accuracy thereof. This report has been completed solely for the use of GPA and is being provided as a confidential document. Any transfer of this report to third parties is the sole responsibility of GPA.

### 4.0 PROPERTY DESCRIPTION

The Tanguisson Power Plant is located at Dededo Parcel 1 Estate 103 at the Tanguisson Point in the Municipality of Dededo, Guam (Figure 1). The facility is comprised of the main power plant structure, transformer pad, aboveground fuel and caustic liquid storage tanks, intake area, neutralizing pit, chemical storage facility, and warehouse building (Figure 2). The main power plant structure, approximately 82,800 square feet, is divided into five levels with two generating units (Figures 3 through 8).

During operation, the two generating units had a rated output of 26.5 megawatts (MW). For each unit, two flows comprised 48.96 million gallons per day (MGD) design flow: a non-contact turbine condenser flow of 41.62 MGD and a non-contact auxiliary water heater exchanger flow of 7.34 MGD. Between the two units, the facilities total design output was 53 MW with a design flow of 97.92 MGD. Both units share a common intake structure that is located on the shoreline just northwest of the facility and draws water from the Philippine Sea. The intake was developed with an intake velocity of 0.93 feet per second.



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## 5.0 ASBESTOS-CONTAINING MATERIALS

### 5.1 INSPECTION METHODOLOGY

EA reviewed the previous July 2013 Asbestos Inspection Report (IHP, 2013) and quantified the amount of ACM present at the plant (Figures 9 through 13). The July 2013 Asbestos Inspection Report is presented in Appendix A. Types of materials labeled ACM include pipes, lines and certain components. On 21 and 19 June 2017, items identified as ACM was quantified by measuring length, thickness, and circumference on materials/components that have been previously identified as ACM. The volume of each component and the total volume of asbestos at each floor level were calculated (Table 1).

### 5.2 SUMMARY OF FINDINGS

The total volume of asbestos at the Tanguisson Power Plant is approximately 3,406 ft<sup>3</sup>. Table 1 lists the total volume of asbestos at each floor level. Locations of ACM materials is presented in Figures 9 through 13 and a photo log of representative ACM materials is presented in Appendix B of this report, and Appendix B of the 2013 Asbestos Inspection Report.

### 5.3 CONCLUSIONS AND RECOMMENDATIONS

Should future demolition activities disturb or impact the identified ACM in any way, a licensed asbestos abatement contractor should remove the material prior to construction activities. Asbestos removal should be performed by a qualified and licensed asbestos abatement contractor in compliance with Federal, State, and Local regulations pertaining to the removal of asbestos. The abatement contractor must comply at a minimum with requirements outlined in National Emission Standards for Hazardous Air Pollutants 40 CFR 61 and OSHA 29 CFR 1910.1001/1926.1101, including applicable local regulations.

## 6.0 LEAD-BASED PAINT

### 6.1 INSPECTION METHODOLOGY

On 3, 5, and 6 April 2017, EA performed a lead-based and lead-containing paint survey to identify locations of LBP that may be disturbed during demolition of the Tanguisson Power Plant. The survey was completed utilizing a Niton XLp 300A Spectrum Analyzer.

Prior to obtaining readings from suspect LBP surfaces, the XRF was calibrated in accordance with the manufacturer's instructions. A minimum of three tests was performed on a lead paint standard to check the calibration of the instrument. Once the XRF displays three consecutive readings within the acceptable range of 0.8 – 1.2 mg/cm<sup>2</sup>, the unit is considered to be functioning properly and within the established tolerance. Calibration checks were performed prior to surveying and at the end of daily field activities. Paint chip samples were not collected during the LBP survey.

Federal or state regulations do not currently specify testing procedures for non-residential structures scheduled for demolition. XRF readings above 0.0 mg/cm<sup>2</sup> are addressed as LCP and



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possible exposure hazard to workers under the OSHA Lead in Construction standard found at 29 CFR 1926.62. Any removal actions for LBP structural materials should follow federal Resource Conservation and Recovery Act (RCRA) standards. The hazardous waste criterion for lead wastes is established under RCRA, Subtitle C, as 5.0 milligrams per liter (mg/L) measured with the Toxicity Characteristic Leaching Procedure (TCLP).

## 6.2 SUMMARY OF FINDINGS

Table 2 provides a summary of painted component surfaces that were tested (confirmed LBP in bold font). This table includes a description of the tested component, location, paint color, and test results. Surfaces were identified as LBP if the results were equal to or greater than the HUD definition of lead-based paint of 1.0 mg/cm<sup>2</sup>. LCP (greater than 0.0 mg/cm<sup>2</sup>) was observed on the majority of the painted surfaces. A photo log of LBP surveys is presented in Appendix A.

## 6.3 CONCLUSIONS AND RECOMMENDATIONS

LBP and LCP were identified at various locations throughout the Tanguisson Power Plant as presented in Table 2. Although LBP and LCP are not required to be abated prior to demolition activities, contractors working on LBP/LCP-coated structures and/or in areas containing LBP/LCP should be notified of its presence and must adhere to the requirements of OSHA Lead in Construction (29 CFR 1926.62). In addition, LBP/LCP-containing waste and debris generated via demolition activities must be sampled and analyzed by TCLP to determine lead content in the generated waste. If the result of the TCLP testing indicates greater than 5.0 mg/L of lead in the waste stream, specialized disposal procedures are required. All lead paint containing debris exceeding the TCLP standard for lead and other metals shall be disposed of as a hazardous waste.

According to the OSHA Lead in Construction standard found at 29 CFR 1926.62, workers in contact with materials identified as either LCP or LBP are potentially at risk for exposure to lead. Current OSHA regulations require that lead-containing surfaces that may be affected by building demolition activities be identified prior to conducting these activities.

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As with any painted surface, the underlying paint layers can vary in color and lead content. Therefore, negative test results for a given component and surface color should not be relied upon for similar appearing components. For instance, the same color surface paint on doors can produce negative results on some doors and be positive (due to underlying paint) on other doors.

Untested facility components or structures should be considered to contain regulated levels of lead until subsequent testing shows otherwise. However, the same positive test combinations of substrate, paint color, and component at one location should be assumed to contain lead at locations not specifically sampled. Although LCP is not required to be abated prior to demolition activities, contractors working on lead-painted components and/or working in the area of lead-containing paint should be notified of its presence and must adhere to the requirements of OSHA Lead in Construction (29 CFR 1926.62). In addition, EA recommends that representative TCLP testing of any possible lead-containing waste generated during facility demolition activities be conducted to determine waste disposal requirements.



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## 7.0 POLYCHLORINATED BIPHENYLS

### 7.1 INSPECTION METHODOLOGY

EA staff performed a visual inspection in accordance with the requirements in the GPA IFB in an attempt to detect sources that may contain PCBs. Examples of suspect sources of PCBs include light ballasts, transformers pads, pole mounted transformers, hydraulic fluids, oils and paints, switches, motors, drains, sumps, and sediments. The Tanguisson Power Plant contains many different transformers, and each transformer was inspected for identifying tags or labels indicating “Non-PCB” oil. Wipe samples were collected from suspect oils and greases observed at the facility and analyzed by Eurofins Calscience Laboratory in Garden Grove, California on 6 June 2017.

Surface soil samples were collected, prepared and analyzed to characterize suspect oils and greases or soils on 12 May 2017.

Representative fluorescent light ballasts housings were disassembled and ballasts were inspected for PCBs on 15 August 2017.

### 7.2 SUMMARY OF FINDINGS

Table 3 provides a summary of light ballasts surveyed on each floor at the Tanguisson Power Plant. Ballasts without “No PCBs” labeling and manufactured prior to January 1979 were presumed to contain PCBs.

EA collected 14 wipe samples (including 1 duplicate sample) of suspect oils and greases at the Tanguisson Power Plant. All wipe samples collected show PCB concentrations to be below the screening criteria of 10 micrograms/100 square centimeters as presented in Table 4. The laboratory report is included in Appendix C.

Table 5 presents the results of the 11 grab surface soil samples (including one duplicate sample) were collected from the Tanguisson Power Plant (Figure 14). All soil samples collected contained PCB concentrations below the screening criteria of 9.8 milligrams per kilogram (Appendix B). A photo log of PCB sampling is presented in Appendix B and the laboratory report is presented at Appendix C.

### 7.3 CONCLUSIONS AND RECOMMENDATIONS

All suspect PCBs identified should be handled and disposed of in accordance with 40 CFR 761.50(b) (2) (ii) and 40 CFR 761.62(a)-(c) prior to demolition.



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## **8.0 MERCURY-CONTAINING SOURCES**

### **8.1 INSPECTION METHODOLOGY**

On 19 and 20 June 2017, EA performed a visual inspection at the power plant in an attempt to detect any sources that may contain mercury. Examples of suspect sources of mercury that EA attempted to locate were fluorescent light bulbs, HID lamps, and thermostats.

### **8.2 SUMMARY OF FINDINGS**

The facility contains 945 fluorescent light tubes in varying lengths and 46 HID light bulbs. The specific number and locations of the fluorescent light tubes and HID light bulbs is listed in Table 6. No mercury-containing thermostats were observed during the inspection.

### **8.3 CONCLUSIONS AND RECOMMENDATIONS**

The transportation and disposal of all mercury-containing light sources should be conducted in accordance with 40 CFR 261 – 263.

## **9.0 CONTAINERIZED HAZARDOUS SUBSTANCES / REGULATED MATERIALS**

### **9.1 INSPECTION METHODOLOGY**

EA performed a visual inspection at the Tanguisson Power Plant for containerized hazardous substances and other regulated materials. The inspection documented the presence of 55-gallon drums, compressed gas cylinders, waste storage bins, mercury switches, thermostats, tanks containing caustic solutions, anti-scaling chemicals, oils, fuels, aboveground storage tanks, underground storage tanks, sumps, cesspools, piping, backup generators, resins, batteries, and other suspect containers or wastes.

### **9.2 SUMMARY OF FINDINGS**

Table 7 lists a thorough inventory of containerized hazardous substances and other regulated materials identified at the power plant and adjacent warehouse building. EA identified 130 different types of containerized hazardous substances and regulated materials.

### **9.3 CONCLUSIONS AND RECOMMENDATIONS**

Containerized hazardous substances and other regulated materials were identified during this investigation. In order to prevent an unintentional release, any hazardous materials identified should be removed and properly disposed in accordance with any applicable federal, state, and local regulations prior to demolition.

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**TABLE 1. QUANTIFIED ASSESSMENT OF ASBESTOS-CONTAINING MATERIALS  
AT THE TANGUISSON POWER PLANT**

Location	Total Volume (ft <sup>3</sup> )
Basement	687.12
Ground Floor	1238.04
Operating Floor	743.64
Drum Deck and	727.67



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**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
3-Apr-17	23	Exterior	Spotlight	blue	2.023"
3-Apr-17	24	Exterior	Spotlight post	blue	2.047"
3-Apr-17	25	Exterior	Fire cannon	red	2.022"
3-Apr-17	26	Exterior	Fire cannon piping	red	2.022"
3-Apr-17	27	Exterior	Railing	yellow	2.022"
3-Apr-17	28	Exterior	Railing	yellow	2.025"
3-Apr-17	29	Exterior	RFO tank 2 pipe	yellow	2.022"
3-Apr-17	30	Exterior	RFO tank 2 pipe	yellow	2.022"
3-Apr-17	31	Exterior	RFO tank 2 rail	yellow	2.025"
3-Apr-17	32	Exterior	RFO tank 2 red fire	red	2.022"
3-Apr-17	34	Exterior	RFO conduit	green	2.025"
3-Apr-17	35	Exterior	RFO tank 2 shell (lower 1st plate)	grey	2.022"
3-Apr-17	36	Exterior	RFO tank 2 shell (mid 2nd plate)	grey	2.072"
3-Apr-17	37	Exterior	RFO tank 2 shell (3rd plate)	grey	<b>1.70</b>
3-Apr-17	38	Exterior	RFO tank 2 shell (4th plate)	grey	<b>1.20</b>
3-Apr-17	39	Exterior	RFO tank 2 pipe	yellow	2.022"
3-Apr-17	40	Exterior	FRM panel 2 (MEC) frame	red	2.062"
3-Apr-17	41	Exterior	FRM panel box	grey	2.023"
3-Apr-17	42	Exterior	Phone box between RFO tank 1 & 2	grey	2.052"
3-Apr-17	43	Exterior	RFO tank 1 pipe	yellow	2.022"
3-Apr-17	45	Exterior	RFO pipe	green	2.022"
3-Apr-17	46	Exterior	RFO pipe	red	2.022"

**Lead-Based Paint**  
*Ngcf/Eqpvv kphpi 'Rc kpv'*  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kc rku* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
3-Apr-17	47	Exterior	Conduit	green	2.02"
3-Apr-17	48	Exterior	RFO tank 1 (plate 1)	grey	<b>1.80</b>
3-Apr-17	50	Exterior	Rail at RFO tank 1	yellow	2.02"
3-Apr-17	51	Exterior	No. 2 light oil storage tank	grey	<b>1.70</b>
3-Apr-17	52	Exterior	No.2 light oil ladder	yellow	2.08"
3-Apr-17	53	Exterior	OWS housing	green	2.02"
3-Apr-17	54	Exterior	OWS pipe	green	2.04"
3-Apr-17	55	Exterior	OWS separation	green	2.02"
3-Apr-17	56	Exterior	OWS tank center	green	2.02"
3-Apr-17	57	Exterior	OWS tank frame	green	2.03"
3-Apr-17	58	Exterior	OWS tank foundation	green	2.02"
3-Apr-17	59	Exterior	Bollard	yellow	<b>1.20</b>
3-Apr-17	60	Exterior	OWS center table	green	2.03"
3-Apr-17	61	Exterior	OWS foundation	green	2.02"
3-Apr-17	62	Exterior	Pipe at OWS	green	2.03"
3-Apr-17	63	Exterior	Bollard	yellow	2.02"
3-Apr-17	64	Exterior	Bollard	yellow	2.02"
3-Apr-17	65	Exterior	Used oil tank	white	2.02"
3-Apr-17	66	Exterior	Used oil frame	red	2.02"
3-Apr-17	67	Exterior	Used oil foundation	red	2.02"
3-Apr-17	68	Exterior	Used oil ladder	grey	2.08"
3-Apr-17	69	Exterior	Chemical storage metal beam	grey	2.02"

**Lead-Based Paint**

Ngcf /Eppic kpi Rc kpv'

**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.

Kc/rk denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.

<LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
3-Apr-17	70	Exterior	Chemical storage metal beam	yellow	2022
3-Apr-17	71	Exterior	Bollard	yellow	2022
3-Apr-17	72	Exterior	Valve cap	yellow	2023
3-Apr-17	73	Exterior	Fire hydrant	red	4022
3-Apr-17	74	Exterior	Bollard	yellow	2022
3-Apr-17	75	Exterior	Bollard	yellow	2022
3-Apr-17	76	Exterior	Valve cap	yellow	2022
3-Apr-17	77	Exterior	Frame	green	2023
3-Apr-17	78	Exterior	Bollard	green	2022
3-Apr-17	79	Exterior	Pump shelter	grey	2088
3-Apr-17	80	Exterior	Tank	white	2022
3-Apr-17	81	Exterior	Electrical box	green	2072
3-Apr-17	82	Exterior	Electrical box	green	2072
3-Apr-17	83	Exterior	Tank base	white	2022
3-Apr-17	84	Exterior	Hydrogen compressed cylinder	red	2024
3-Apr-17	85	Exterior	Hydrogen compressed cylinder	red	2022
3-Apr-17	86	Exterior	Hydrogen compressed cylinder	red	2022
3-Apr-17	87	Exterior	Hydrogen compressed cylinder	red	2023
6-Apr-17	361	BASEMENT	Lockers	white	<LOD
6-Apr-17	362	BASEMENT	Bench wood	green	<LOD
6-Apr-17	363	BASEMENT	Bench legs	green	<LOD
6-Apr-17	364	BASEMENT	Ceramic wall tile	light blue	<LOD

**Lead-Based Paint**  
*Ngcf/Eqpvv kphpi 'Rc kpv'*  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kcrkru* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	365	BASEMENT	Ceramic floor tile	light blue	<LOD
6-Apr-17	366	BASEMENT	Ceramic wall tile (wavy)	blue	<LOD
6-Apr-17	367	BASEMENT	Ceramic floor tile	beige	<LOD
6-Apr-17	368	BASEMENT	Wall	light green	<LOD
6-Apr-17	369	BASEMENT	Wall	dark green	<b>1.20</b>
6-Apr-17	372	BASEMENT	Wall	dark green	202"
6-Apr-17	373	BASEMENT	Panel	blue	<b>2.70</b>
6-Apr-17	374	BASEMENT	Pump panel	blue	<LOD
6-Apr-17	375	BASEMENT	Pump motor	black	<LOD
6-Apr-17	376	BASEMENT	Motor foundation	blue	<LOD
6-Apr-17	377	BASEMENT	Cylinder	blue	<LOD
6-Apr-17	378	BASEMENT	Pipe	yellow	202"
6-Apr-17	379	BASEMENT	Pipe	blue	<LOD
6-Apr-17	380	BASEMENT	Water pipe	blue	<LOD
6-Apr-17	381	BASEMENT	Pipe	yellow	<b>1.10</b>
6-Apr-17	382	BASEMENT	Pipe	white	<b>1.30</b>
6-Apr-17	383	BASEMENT	CRV	green	<LOD
6-Apr-17	384	BASEMENT	Pipe	white	<b>3.70</b>
6-Apr-17	385	BASEMENT	Panel	black	<LOD
6-Apr-17	386	BASEMENT	Pipe	grey	<b>2.20</b>
6-Apr-17	388	BASEMENT	Transformer	blue	<LOD
6-Apr-17	389	BASEMENT	Panel	blue	<LOD

**Lead-Based Paint**

*Ngcf/Eqpic/kpki/Rc/kpv'*

**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.

*Kc/rkz* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.

<LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	390	BASEMENT	Panel	blue	<LOD
6-Apr-17	391	BASEMENT	Panel	grey	<LOD
6-Apr-17	392	BASEMENT	Panel	blue	<LOD
6-Apr-17	393	BASEMENT	Vent valve	black	<LOD
6-Apr-17	394	BASEMENT	CMU wall	grey	<LOD
6-Apr-17	396	BASEMENT	CMU wall	white	<LOD
6-Apr-17	398	BASEMENT	CMU wall	white	<LOD
6-Apr-17	399	BASEMENT	Pipe	grey	<LOD
6-Apr-17	400	BASEMENT	Pipe	grey	<b>1.80</b>
6-Apr-17	401	BASEMENT	Pipe	grey	<LOD
6-Apr-17	402	BASEMENT	Panel	grey	<LOD
6-Apr-17	403	BASEMENT	Panel	grey	<LOD
6-Apr-17	404	BASEMENT	Motor	blue	<LOD
6-Apr-17	405	BASEMENT	Motor	blue	<LOD
6-Apr-17	406	BASEMENT	Pipe	grey	<LOD
6-Apr-17	407	BASEMENT	Pipe	grey	<b>3.10</b>
6-Apr-17	408	BASEMENT	Motor	blue	<LOD
6-Apr-17	409	BASEMENT	Pipe	Red	<LOD
6-Apr-17	410	BASEMENT	Staircase frame	black	<LOD
6-Apr-17	411	BASEMENT	Staircase railing	yellow	<b>2.50</b>
6-Apr-17	412	BASEMENT	Tool room Door	orange	<LOD
6-Apr-17	413	BASEMENT	Tool room plywood wall	white	<LOD

**Lead-Based Paint**

*Ngcf /Eqpic kpi Rc kpv'*

**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.

*Kc/rkz* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.

<LOD=not detected as a concentration exceeding the limit of detection.







**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	414	BASEMENT	Tool room column	white	<LOD
6-Apr-17	415	BASEMENT	Panel door	blue	<LOD
6-Apr-17	416	BASEMENT	Panel	blue	<LOD
6-Apr-17	417	BASEMENT	Transformer	blue	<LOD
6-Apr-17	419	BASEMENT	Panel	blue	<LOD
6-Apr-17	420	BASEMENT	Panel	grey	<LOD
6-Apr-17	421	BASEMENT	Pipe	yellow	<b>4.50</b>
6-Apr-17	422	BASEMENT	Pipe	yellow	<b>3.30</b>
6-Apr-17	423	BASEMENT	Pipe	yellow	<LOD
6-Apr-17	424	BASEMENT	Lathe	grey	<LOD
6-Apr-17	425	BASEMENT	Pan	grey	<LOD
6-Apr-17	426	BASEMENT	High beams with turn buckles	blue	<LOD
6-Apr-17	427	BASEMENT	Switch	blue	<LOD
6-Apr-17	428	BASEMENT	Panel	blue	<LOD
6-Apr-17	429	BASEMENT	Transformer	blue	<LOD
6-Apr-17	430	BASEMENT	Fire alarm	red	<b>2.0:</b>
6-Apr-17	431	BASEMENT	Storage cabinet	blue	<LOD
6-Apr-17	432	BASEMENT	Pipe	red	<LOD
6-Apr-17	433	BASEMENT	Switch	blue	<LOD
6-Apr-17	434	BASEMENT	Staircase railing	black	<LOD
6-Apr-17	435	BASEMENT	Railing	yellow	<LOD
6-Apr-17	436	BASEMENT	Floor drain pipe	grey	<b>2.60</b>

**Lead-Based Paint**  
*Ngcf /Eqpic kpipi 'Rc kpy'*  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kc/rkz* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	437	BASEMENT	Panel	blue	<LOD
6-Apr-17	438	BASEMENT	Pipe	grey	<b>3.50</b>
6-Apr-17	439	BASEMENT	Pipe	yellow	<b>2.70</b>
6-Apr-17	440	BASEMENT	Tank	grey	<LOD
6-Apr-17	441	BASEMENT	Pipe	yellow	<LOD
6-Apr-17	442	BASEMENT	Pump	grey	<LOD
6-Apr-17	443	BASEMENT	Motor	blue	<LOD
6-Apr-17	444	BASEMENT	Pipe	yellow	<b>2.00</b>
6-Apr-17	445	BASEMENT	Drum container	grey	<LOD
6-Apr-17	446	BASEMENT	Suction pipe	grey	<LOD
6-Apr-17	447	BASEMENT	Pump	grey	<LOD
6-Apr-17	448	BASEMENT	Motor	grey	<LOD
6-Apr-17	449	BASEMENT	Panel	grey	<LOD
6-Apr-17	450	BASEMENT	Control panel	grey	<LOD
6-Apr-17	453	BASEMENT	Main water pipe supply	grey	<LOD
6-Apr-17	454	BASEMENT	Main water pipe supply	red	<LOD
6-Apr-17	455	BASEMENT	Main water pipe supply	red	<LOD
6-Apr-17	456	BASEMENT	Boiler feed day tank	yellow	<LOD
6-Apr-17	457	BASEMENT	Pipe	blue	<LOD
6-Apr-17	458	BASEMENT	Pipe	blue	<LOD
6-Apr-17	459	BASEMENT	Pipe	blue	<LOD
6-Apr-17	460	BASEMENT	Pipe	yellow	<LOD

**Lead-Based Paint**  
*Ngcf /Eqpic kpipi 'Rc kpv'*  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kc/rkz* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	461	BASEMENT	CRV 1-16	green	<LOD
6-Apr-17	462	BASEMENT	Pipe	yellow	<LOD
6-Apr-17	463	BASEMENT	Pump motor	blue	<LOD
6-Apr-17	464	BASEMENT	Foundation	black	2.02"
6-Apr-17	465	BASEMENT	Concrete pad	black	<LOD
6-Apr-17	466	BASEMENT	Day tank	yellow	<LOD
6-Apr-17	467	BASEMENT	Pipe	blue	<LOD
6-Apr-17	468	BASEMENT	Pipe	blue	<LOD
6-Apr-17	469	BASEMENT	Pipe	yellow	<LOD
6-Apr-17	470	BASEMENT	Pipe	yellow	<LOD
6-Apr-17	471	BASEMENT	CRV 1-17	green	<LOD
6-Apr-17	472	BASEMENT	Pump motor	blue	<LOD
6-Apr-17	473	BASEMENT	Foundation	black	<LOD
6-Apr-17	474	BASEMENT	Concrete pad	black	<LOD
6-Apr-17	475	BASEMENT	Panel	blue	<b>2.20</b>
6-Apr-17	476	BASEMENT	Breaker 4	blue	<LOD
6-Apr-17	478	BASEMENT	Panel/Box	grey	<LOD
6-Apr-17	479	BASEMENT	Funnel	grey	<LOD
6-Apr-17	480	BASEMENT	Receiver tank	grey	<LOD
6-Apr-17	481	BASEMENT	Pipe	grey	<b>2.40</b>
6-Apr-17	482	BASEMENT	Filter	green	<LOD
6-Apr-17	483	BASEMENT	CRV 1-32	green	<LOD

**Lead-Based Paint**

Ngcf/Eqpic/kpki/Rc/kpv'  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
 Kc/rk denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.



**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	484	BASEMENT	Pipe	grey	<LOD
6-Apr-17	485	BASEMENT	Pipe	grey	<LOD
6-Apr-17	486	BASEMENT	Condenser valve (inlet)	grey	<b>6.20</b>
6-Apr-17	487	BASEMENT	Inlet manifold	red	<LOD
6-Apr-17	488	BASEMENT	Condenser valve (inlet)	grey	<LOD
6-Apr-17	489	BASEMENT	Inlet manifold	red	<LOD
6-Apr-17	490	BASEMENT	Pipe	red	<LOD
6-Apr-17	491	BASEMENT	Pipe	yellow	<LOD
6-Apr-17	492	BASEMENT	Lube oil condenser tank	grey	<LOD
6-Apr-17	493	BASEMENT	Pipe	yellow	<LOD
6-Apr-17	494	BASEMENT	Pan	black	<LOD
6-Apr-17	495	BASEMENT	Concrete foundation	black	<LOD
6-Apr-17	496	BASEMENT	Condenser	grey	<LOD
6-Apr-17	497	BASEMENT	Pipe	grey	<LOD
6-Apr-17	498	BASEMENT	Pipe	grey	<b>2.70</b>
6-Apr-17	499	BASEMENT	Pipe	grey	<LOD
6-Apr-17	500	BASEMENT	Condensate pump	blue	<LOD
6-Apr-17	501	BASEMENT	Pipe	grey	<LOD
6-Apr-17	502	BASEMENT	Pipe	grey	<b>2.80</b>
6-Apr-17	503	BASEMENT	Panel/Electrical box	blue	<LOD
6-Apr-17	504	BASEMENT	Condensate pump motor	blue	<LOD
6-Apr-17	505	BASEMENT	Condensate pump	blue	0.80

**Lead-Based Paint**

*Ngcf /Eqpic kpipi 'Rc kpv'*

**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.

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<LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	506	BASEMENT	Pipe	grey	<b>2.30</b>
6-Apr-17	507	BASEMENT	Pipe	grey	<LOD
6-Apr-17	508	BASEMENT	Pipe	grey	<b>1.60</b>
6-Apr-17	509	BASEMENT	CRV 1-15	green	<LOD
6-Apr-17	510	BASEMENT	Pipe	grey	<LOD
6-Apr-17	511	BASEMENT	Condenser	grey	<LOD
6-Apr-17	512	BASEMENT	Pipe	yellow	<LOD
6-Apr-17	513	BASEMENT	Frame	yellow	<b>4.30</b>
6-Apr-17	514	BASEMENT	Foundation	yellow	<LOD
6-Apr-17	515	BASEMENT	Concrete foundation	black	<LOD
6-Apr-17	516	BASEMENT	Condensation Recirculator pipe	grey	<LOD
6-Apr-17	517	BASEMENT	CRV 1-35	green	<LOD
6-Apr-17	518	BASEMENT	Pipe	grey	<LOD
6-Apr-17	519	BASEMENT	Cathodic box	grey	<LOD
6-Apr-17	520	BASEMENT	Cathodic box	grey	<LOD
6-Apr-17	521	BASEMENT	Pipe	yellow	<LOD
6-Apr-17	522	BASEMENT	Bypass pipe	red	<LOD
6-Apr-17	523	BASEMENT	Header	red	<LOD
6-Apr-17	524	BASEMENT	Valve body	grey	<b>2.00</b>
6-Apr-17	525	BASEMENT	Valve body	grey	<LOD
6-Apr-17	526	BASEMENT	Water box vent pipe	grey	<b>3.50</b>
6-Apr-17	527	BASEMENT	Pipe	yellow	<LOD

**Lead-Based Paint**

*Ngcf /Eqpic kpipi 'Rc kpv'*

**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.

*Kc/rku* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.

<LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	528	BASEMENT	Pipe	yellow	<LOD
6-Apr-17	529	BASEMENT	Box	grey	<LOD
6-Apr-17	530	BASEMENT	Pipe (CO <sub>2</sub> vent drain)	grey	<LOD
6-Apr-17	531	BASEMENT	Pipe	yellow	<b>5.00</b>
6-Apr-17	532	BASEMENT	CO <sub>2</sub> vent pipe	grey	<LOD
6-Apr-17	533	BASEMENT	CO <sub>2</sub> tank	grey	<LOD
6-Apr-17	534	BASEMENT	Condenser	grey	<LOD
6-Apr-17	535	BASEMENT	Pipe	blue	<LOD
6-Apr-17	536	BASEMENT	Pipe	grey	<LOD
6-Apr-17	537	BASEMENT	Pipe	blue	<LOD
6-Apr-17	538	BASEMENT	Catchment	grey	<b>3.10</b>
6-Apr-17	539	BASEMENT	Pipe	grey	<LOD
6-Apr-17	540	BASEMENT	Pipe	grey	<b>3.60</b>
6-Apr-17	541	BASEMENT	Heat Exchange pipe	grey	<LOD
6-Apr-17	542	BASEMENT	Pipe	blue	<LOD
6-Apr-17	543	BASEMENT	Supply pipe	blue	<LOD
6-Apr-17	544	BASEMENT	Pipe	grey	<LOD
6-Apr-17	545	BASEMENT	Tank	grey	<LOD
6-Apr-17	546	BASEMENT	Control air dryer	green	<LOD
6-Apr-17	547	BASEMENT	Traps	green	<LOD
6-Apr-17	549	BASEMENT	Pipe	green	<LOD
6-Apr-17	550	BASEMENT	Frame	green	<LOD

**Lead-Based Paint**  
*Ngcf /Eqpic kpi 'Rc kpv'*  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kc/rk* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	551	BASEMENT	Tank	grey	<LOD
6-Apr-17	552	BASEMENT	Switch/panel	grey	<LOD
6-Apr-17	553	BASEMENT	Frame	grey	<LOD
6-Apr-17	554	BASEMENT	Foundation	grey	<LOD
6-Apr-17	555	BASEMENT	Pump	green	<LOD
6-Apr-17	556	BASEMENT	Control panel	grey	<LOD
6-Apr-17	557	BASEMENT	Frame	grey	<LOD
6-Apr-17	558	BASEMENT	Sampling panel	grey	<LOD
6-Apr-17	559	BASEMENT	Sampling back	grey	<LOD
6-Apr-17	560	BASEMENT	Motor	blue	<LOD
6-Apr-17	561	BASEMENT	Pipe	grey	<LOD
6-Apr-17	562	BASEMENT	Pipe	grey	<LOD
6-Apr-17	563	BASEMENT	Pump	blue	<LOD
6-Apr-17	564	BASEMENT	Pipe	grey	<LOD
6-Apr-17	565	BASEMENT	Pipe	blue	<LOD
6-Apr-17	566	BASEMENT	Pump	blue	<LOD
6-Apr-17	567	BASEMENT	Pipe	red	<LOD
6-Apr-17	568	BASEMENT	Railing	yellow	<LOD
6-Apr-17	569	BASEMENT	Staircase frame	black	<LOD
6-Apr-17	570	BASEMENT	Bracket	green	<LOD
6-Apr-17	571	BASEMENT	Compressor control panel	grey	<LOD
6-Apr-17	573	BASEMENT	Compressor	grey	<LOD

**Lead-Based Paint**  
*Ngcf /Eqpic kpipi 'Rc kpy'*  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kc/rku* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	574	BASEMENT	Day tank	yellow	<LOD
6-Apr-17	575	BASEMENT	Pump	grey	<LOD
6-Apr-17	576	BASEMENT	Foundation	black	<LOD
6-Apr-17	577	BASEMENT	Pipe	blue	<b>2.30</b>
6-Apr-17	578	BASEMENT	Pipe	yellow	<b>2.80</b>
6-Apr-17	579	BASEMENT	CRV	green	<LOD
6-Apr-17	580	BASEMENT	Pump motor	blue	<LOD
6-Apr-17	581	BASEMENT	Day tank	yellow	<LOD
6-Apr-17	582	BASEMENT	Pump	grey	<LOD
6-Apr-17	583	BASEMENT	Foundation	black	<LOD
6-Apr-17	584	BASEMENT	Concrete foundation	black	<LOD
6-Apr-17	585	BASEMENT	Pipe	blue	<b>2.90</b>
6-Apr-17	586	BASEMENT	CRV	green	<LOD
6-Apr-17	587	BASEMENT	Pipe	yellow	<LOD
6-Apr-17	588	BASEMENT	Motor	blue	<LOD
6-Apr-17	589	BASEMENT	Box	grey	<LOD
6-Apr-17	590	BASEMENT	Lube Oil Tank	grey	<LOD
6-Apr-17	591	BASEMENT	Motor	blue	<LOD
6-Apr-17	592	BASEMENT	Pipe	yellow	<b>2.70</b>
6-Apr-17	593	BASEMENT	Tank	grey	<LOD
6-Apr-17	594	BASEMENT	Condenser header	red	<LOD
6-Apr-17	595	BASEMENT	Bypass pipe	red	<LOD

**Lead-Based Paint**  
*Ngcf /Eqpic kpi Rc kpv'*  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kc/rku* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.







**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	596	BASEMENT	Valve body	grey	<LOD
6-Apr-17	597	BASEMENT	Condenser	grey	<LOD
6-Apr-17	598	BASEMENT	Condenser	grey	<LOD
6-Apr-17	599	BASEMENT	CRV	green	<LOD
6-Apr-17	600	BASEMENT	Pump	green	<LOD
6-Apr-17	601	BASEMENT	Drain tank	grey	<LOD
6-Apr-17	602	BASEMENT	Pipe	grey	<LOD
6-Apr-17	603	BASEMENT	Pipe	grey	<b>3.30</b>
6-Apr-17	604	BASEMENT	Catchment	grey	<LOD
6-Apr-17	605	BASEMENT	Catchment	grey	<LOD
6-Apr-17	606	BASEMENT	Pipe	grey	<LOD
6-Apr-17	607	BASEMENT	Catchment	grey	<LOD
6-Apr-17	608	BASEMENT	Pipe	grey	<b>2.70</b>
6-Apr-17	610	BASEMENT	Pump motor	blue	<LOD
6-Apr-17	611	BASEMENT	Pipe	grey	<LOD
6-Apr-17	613	BASEMENT	Pipe	grey	<b>1.20</b>
6-Apr-17	614	BASEMENT	Condenser	grey	<LOD
6-Apr-17	615	BASEMENT	Pipe/valve	grey	<LOD
6-Apr-17	616	BASEMENT	Pipe	grey	<LOD
6-Apr-17	618	BASEMENT	Pump	blue	<LOD
6-Apr-17	619	BASEMENT	Pipe	grey	<LOD
6-Apr-17	620	BASEMENT	Pipe	grey	<LOD

**Lead-Based Paint**  
*Ngcf /Eqpic kpi Rc kpv'*  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kc/rkz* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	621	BASEMENT	CRV	green	<LOD
6-Apr-17	622	BASEMENT	Pipe	grey	<LOD
6-Apr-17	623	BASEMENT	Condenser	grey	<LOD
6-Apr-17	624	BASEMENT	Pipe	yellow	<b>3.00</b>
6-Apr-17	625	BASEMENT	Frame	yellow	<LOD
6-Apr-17	626	BASEMENT	Foundation	yellow	<LOD
6-Apr-17	627	BASEMENT	Foundation	yellow	<LOD
6-Apr-17	628	BASEMENT	Filter	grey	<LOD
6-Apr-17	629	BASEMENT	Overhead pipe	blue	<LOD
6-Apr-17	630	BASEMENT	Pipe	grey	<LOD
6-Apr-17	631	BASEMENT	CRV 2-35	green	<LOD
6-Apr-17	632	BASEMENT	Pipe	grey	<LOD
6-Apr-17	633	BASEMENT	Box	grey	<LOD
6-Apr-17	634	BASEMENT	Header	red	<LOD
6-Apr-17	635	BASEMENT	Bypass pipe	red	<LOD
6-Apr-17	636	BASEMENT	Inlet hatch	grey	<LOD
6-Apr-17	637	BASEMENT	Valve body	grey	<LOD
6-Apr-17	638	BASEMENT	Pipe	yellow	<LOD
6-Apr-17	639	BASEMENT	CO <sub>2</sub> tank	grey	<LOD
6-Apr-17	640	BASEMENT	Condenser	grey	<LOD
6-Apr-17	641	BASEMENT	Pipe	grey	<LOD
6-Apr-17	642	BASEMENT	Pipe	white	<LOD

**Lead-Based Paint**  
*Ngcf /Eqpic kpi 'Rc kpv'*  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kc/rkz* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	643	BASEMENT	Pipe	blue	<LOD
6-Apr-17	644	BASEMENT	Overhead pipe	red	<LOD
6-Apr-17	645	BASEMENT	Auxiliary heat exchanger	grey	<LOD
6-Apr-17	646	BASEMENT	Pipe	blue	<LOD
6-Apr-17	647	BASEMENT	Heat Exchanger	grey	<LOD
6-Apr-17	648	BASEMENT	Pipe	blue	<b>2.70</b>
6-Apr-17	649	BASEMENT	Overhead pipe	grey	<LOD
6-Apr-17	650	BASEMENT	Floor drain pipe	grey	<LOD
6-Apr-17	651	BASEMENT	Circulation line	grey	<LOD
6-Apr-17	652	BASEMENT	Circulation line	red	<LOD
6-Apr-17	653	BASEMENT	Pipe	grey	<b>3.10</b>
6-Apr-17	655	BASEMENT	Pump	grey	<LOD
6-Apr-17	656	BASEMENT	Compressor	grey	<LOD
6-Apr-17	657	BASEMENT	Pump	grey	<LOD
6-Apr-17	658	BASEMENT	Control panel	blue	<LOD
6-Apr-17	659	BASEMENT	Exhaust	blue	<LOD
6-Apr-17	660	BASEMENT	Tank	grey	<LOD
6-Apr-17	661	BASEMENT	Air dryers	green	<LOD
6-Apr-17	663	BASEMENT	Pipe	green	<LOD
6-Apr-17	664	BASEMENT	Separators	green	<LOD
6-Apr-17	665	BASEMENT	Frame	green	<LOD
6-Apr-17	666	BASEMENT	Tank	grey	<LOD

**Lead-Based Paint**

*Ngcf /Eqpic kpipi 'Rc kpy'*

**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.

*Kc/rku* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.

<LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	667	BASEMENT	Frame	grey	<LOD
6-Apr-17	668	BASEMENT	Motor	blue	<LOD
6-Apr-17	669	BASEMENT	Pump	green	<LOD
6-Apr-17	670	BASEMENT	Control panel	grey	<LOD
6-Apr-17	671	BASEMENT	Frame	grey	<LOD
6-Apr-17	672	BASEMENT	Foundation	grey	<LOD
6-Apr-17	673	BASEMENT	Sampling sink	grey	<LOD
6-Apr-17	5	Ground Floor	Floor drain pipe	grey	<b>3.10</b>
6-Apr-17	6	Ground Floor	Column Wall (Fire Extinguisher)	Red	2.05"
6-Apr-17	7	Ground Floor	Nitrogen tank	grey	2.06"
6-Apr-17	8	Ground Floor	Nitrogen tank	grey	2.03"
6-Apr-17	9	Ground Floor	Carbon dioxide (CO <sub>2</sub> ) tank	red	2.09"
6-Apr-17	10	Ground Floor	Carbon dioxide (CO <sub>2</sub> ) tank	red	2.02"
6-Apr-17	11	Ground Floor	CO <sub>2</sub> Manifold pipe	red	2.04"
6-Apr-17	12	Ground Floor	Frame	black	2.06"
6-Apr-17	13	Ground Floor	Pipe	red	<b>2.50</b>
6-Apr-17	14	Ground Floor	Guard rail	yellow	<b>5.60</b>
6-Apr-17	15	Ground Floor	Staircase railing	yellow	<b>9.10</b>
6-Apr-17	16	Ground Floor	Curb (concrete rail)	black	2.08"
6-Apr-17	17	Ground Floor	Square railing	yellow	2.05"
6-Apr-17	18	Ground Floor	Square railing	black	2.03"
6-Apr-17	19	Ground Floor	Round railing	yellow	<b>9.20</b>

**Lead-Based Paint**

Ngcf /Eqpic kpi Rc kpv'

**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.

Kc/rk denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.

<LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	20	Ground Floor	Condenser air pipe	grey	<b>6.50</b>
6-Apr-17	21	Ground Floor	Valve handle	yellow	2.09"
6-Apr-17	22	Ground Floor	Condenser air pipe	grey	<b>2.70</b>
6-Apr-17	23	Ground Floor	Tank	silver	2.03"
6-Apr-17	24	Ground Floor	Pipe	silver	2.02"
6-Apr-17	25	Ground Floor	Valve handle	yellow	2.02"
6-Apr-17	26	Ground Floor	Pipe	grey	2.04: "
6-Apr-17	27	Ground Floor	Return line	blue	2.05"
6-Apr-17	28	Ground Floor	Return line	blue	2.04"
6-Apr-17	29	Ground Floor	Valve handle	yellow	2.08"
6-Apr-17	30	Ground Floor	CRV	green	<b>1.30</b>
6-Apr-17	31	Ground Floor	Railing	yellow	<b>8.10</b>
6-Apr-17	32	Ground Floor	Railing	black	<b>3.40</b>
6-Apr-17	33	Ground Floor	Pipe lagging	silver	2.02"
6-Apr-17	35	Ground Floor	Valve	grey	2.03"
6-Apr-17	36	Ground Floor	Pipe	grey	2.02"
6-Apr-17	37	Ground Floor	Pipe	grey	2.05"
6-Apr-17	38	Ground Floor	Valve	black	2.07"
6-Apr-17	39	Ground Floor	Valve handle	yellow	2.03"
6-Apr-17	40	Ground Floor	Pipe 1 in.	grey	<b>2.10</b>
6-Apr-17	41	Ground Floor	Valve	black	2.05"
6-Apr-17	42	Ground Floor	Overhead	yellow	<b>1.70</b>

**Lead-Based Paint**

Ngcf /Eqpic kpi Rc kpv'

**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.

Kc/rk denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.

<LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	43	Ground Floor	Bearing Lube Oil Valve	grey	2.06"
6-Apr-17	44	Ground Floor	Pipe 1 in.	grey	2.90
6-Apr-17	45	Ground Floor	Bearing Lube Oil Pipe	yellow	2.80
6-Apr-17	46	Ground Floor	Valve	black	2.05"
6-Apr-17	47	Ground Floor	CRV 1-37	green	2.02"
6-Apr-17	48	Ground Floor	Valve	black	2.05"
6-Apr-17	49	Ground Floor	CRV-1-18	green	2.02"
6-Apr-17	50	Ground Floor	Boil cladding	silver	2.02"
6-Apr-17	51	Ground Floor	Pipe hanger	grey	2.07"
6-Apr-17	52	Ground Floor	Tank cladding	silver	2.02"
6-Apr-17	53	Ground Floor	Power receptacle	blue	2.05"
6-Apr-17	54	Ground Floor	Diesel generator	yellow	2.04"
6-Apr-17	55	Ground Floor	Generator	red	2.05"
6-Apr-17	56	Ground Floor	Foundation	yellow	2.09"
6-Apr-17	57	Ground Floor	Day tank	yellow	2.05"
6-Apr-17	58	Ground Floor	Transformer	blue	2.02"
6-Apr-17	59	Ground Floor	Switch panel	blue	2.02"
6-Apr-17	60	Ground Floor	Panel	blue	2.03"
6-Apr-17	61	Ground Floor	Fuel oil heater	grey	2.02"
6-Apr-17	62	Ground Floor	Heater frame	black	7.50
6-Apr-17	63	Ground Floor	Drain pipe 0.5 in.	yellow	4.50
6-Apr-17	64	Ground Floor	Cladding	yellow	2.03"

**Lead-Based Paint**

Ngcf /Eqpic kpi Rc kpv"

**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.

Kc/rk denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.

<LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	65	Ground Floor	Box cover	silver	2.02"
6-Apr-17	66	Ground Floor	Cladding	yellow	2.02"
6-Apr-17	67	Ground Floor	Conduit	blue	2.05"
6-Apr-17	68	Ground Floor	Motor	blue	2.08"
6-Apr-17	69	Ground Floor	Pipe	yellow	<b>4.20</b>
6-Apr-17	70	Ground Floor	Pipe	yellow	<b>3.20</b>
6-Apr-17	71	Ground Floor	Filter	black	<b>6.60</b>
6-Apr-17	72	Ground Floor	Pipe	yellow	<b>4.80</b>
6-Apr-17	73	Ground Floor	Pipe motor	blue	2.04"
6-Apr-17	74	Ground Floor	Conduit	blue	2.02"
6-Apr-17	76	Ground Floor	CRV 1-46	green	2.03"
6-Apr-17	77	Ground Floor	Heater foundation	black	2.0:
6-Apr-17	78	Ground Floor	Heater concrete	black	2.02"
6-Apr-17	80	Ground Floor	Compressed air pipe	grey	<b>1.60</b>
6-Apr-17	81	Ground Floor	Compressed air pipe	white	2.02"
6-Apr-17	82	Ground Floor	Overhead pipe 1.5 in.	white	<b>2.10</b>
6-Apr-17	83	Ground Floor	Compressed air pipe	white	<b>3.50</b>
6-Apr-17	84	Ground Floor	Frame	white	2.06"
6-Apr-17	85	Ground Floor	Pipe	white	4.02"
6-Apr-17	86	Ground Floor	Overflow pipe	grey	2.09"
6-Apr-17	87	Ground Floor	Pipe	yellow	<b>8.70</b>
6-Apr-17	88	Ground Floor	Pipe	grey	2.02"

**Lead-Based Paint**  
*Ngcf /Eqpic kpi Rc kpv'*  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kc/rk* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	89	Ground Floor	Pipe	grey	2.07"
6-Apr-17	90	Ground Floor	Pipe	blue	4.70
6-Apr-17	91	Ground Floor	Pipe	blue	4.60
6-Apr-17	92	Ground Floor	Pipe	blue	3.30
6-Apr-17	94	Ground Floor	Pipe	grey	4.90
6-Apr-17	95	Ground Floor	Pipe	white	2.09"
6-Apr-17	96	Ground Floor	Pipe	yellow	5.30
6-Apr-17	97	Ground Floor	Pipe	white	3.80
6-Apr-17	98	Ground Floor	Valve	green	2.07"
6-Apr-17	99	Ground Floor	Pipe	yellow	2.60
6-Apr-17	100	Ground Floor	Pipe	grey	2.02;"
6-Apr-17	101	Ground Floor	Ladder	black	2.05"
6-Apr-17	102	Ground Floor	Tank	green	2.06"
6-Apr-17	103	Ground Floor	Pipe	yellow	9.80
6-Apr-17	104	Ground Floor	Valve	grey	2.02"
6-Apr-17	105	Ground Floor	Panel	grey	2.02;"
6-Apr-17	106	Ground Floor	Pipe	yellow	4.00
6-Apr-17	107	Ground Floor	Railing	black	1.70
6-Apr-17	108	Ground Floor	Pipe	yellow	8.10
6-Apr-17	109	Ground Floor	Pump	blue	2.04"
6-Apr-17	110	Ground Floor	Panel	blue	2.043"
6-Apr-17	111	Ground Floor	Pump	blue	2.02"

**Lead-Based Paint**  
*Ngcf /Eqpic kpipi 'Rc kvv'*  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kc/rkz* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.







**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	112	Ground Floor	Pump	blue	202"
6-Apr-17	113	Ground Floor	Tank	green	209"
6-Apr-17	114	Ground Floor	Conduit	silver	202"
6-Apr-17	115	Ground Floor	Conduit	silver	202,"
6-Apr-17	117	Ground Floor	Pipe	yellow	207"
6-Apr-17	118	Ground Floor	Pipe	white	<b>3.00</b>
6-Apr-17	119	Ground Floor	Pipe	blue	<b>6.70</b>
6-Apr-17	120	Ground Floor	Pipe	blue	205"
6-Apr-17	121	Ground Floor	Pipe	blue	204"
6-Apr-17	122	Ground Floor	Pipe	blue	<b>1.30</b>
6-Apr-17	123	Ground Floor	Pipe	yellow	<b>1.90</b>
6-Apr-17	124	Ground Floor	Pipe	blue	202"
6-Apr-17	125	Ground Floor	Pipe	blue	203"
6-Apr-17	126	Ground Floor	Pipe	blue	<b>1.80</b>
6-Apr-17	127	Ground Floor	Pipe	yellow	<b>4.30</b>
6-Apr-17	128	Ground Floor	Pipe	green	206"
6-Apr-17	129	Ground Floor	Valve	black	205"
6-Apr-17	130	Ground Floor	Motor	blue	202"
6-Apr-17	131	Ground Floor	Pump	yellow	203"
6-Apr-17	132	Ground Floor	Foundation	black	205"
6-Apr-17	133	Ground Floor	Concrete pad	black	204"
6-Apr-17	134	Ground Floor	Pipe	yellow	<b>6.20</b>

**Lead-Based Paint**  
*Ngcf /Eqpic kpi 'Rc kpv'*  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kc/rkz* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	135	Ground Floor	Pipe	grey	3.50
6-Apr-17	136	Ground Floor	CRV 1-14	green	2.05"
6-Apr-17	137	Ground Floor	CRV 1-12	green	2.02"
6-Apr-17	138	Ground Floor	Railing	black	1.40
6-Apr-17	139	Ground Floor	Electrical box	blue	2.02"
6-Apr-17	140	Ground Floor	Hydrogen cooling panel	green	2.03"
6-Apr-17	141	Ground Floor	Box	green	2.08"
6-Apr-17	142	Ground Floor	Switch panel	blue	4.70
6-Apr-17	143	Ground Floor	Switch panel	blue	2.08;"
6-Apr-17	144	Ground Floor	Switch panel	blue	2.08"
6-Apr-17	145	Ground Floor	Switch panel	blue	4.20
6-Apr-17	146	Ground Floor	Switch panel	blue	4.10
6-Apr-17	147	Ground Floor	Rectifier section/switch panel	blue	2.09"
6-Apr-17	148	Ground Floor	Rectifier section/switch panel	blue	2.07"
6-Apr-17	149	Ground Floor	Duct	blue	2.04"
6-Apr-17	150	Ground Floor	Wall	green	2.0;"
6-Apr-17	151	Ground Floor	Panel	blue	2.03"
6-Apr-17	152	Ground Floor	Panel	blue	2.02"
6-Apr-17	153	Ground Floor	Panel	blue	2.09"
6-Apr-17	154	Ground Floor	Panel	blue	2.03"
6-Apr-17	155	Ground Floor	Column	green	2.06"
6-Apr-17	156	Ground Floor	Pipe	red	3.00

**Lead-Based Paint**

Ngcf/Eqpic/kpki/Rc/kpv'  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kc/rk* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	157	Ground Floor	Transformer	blue	2.70
6-Apr-17	158	Ground Floor	Panel	blue	2.02"
6-Apr-17	159	Ground Floor	Panel	blue	2.02"
6-Apr-17	160	Ground Floor	Panel	blue	2.02"
6-Apr-17	161	Ground Floor	Wall	green	2.02"
6-Apr-17	162	Ground Floor	Panel	blue	2.03"
6-Apr-17	163	Ground Floor	Panel/transformer	blue	2.02"
6-Apr-17	164	Ground Floor	Door frame	white	2.07"
6-Apr-17	165	Ground Floor	Door	grey	2.02"
6-Apr-17	166	Ground Floor	Men's restroom door	grey	2.02"
6-Apr-17	167	Ground Floor	Door jam/frame	grey	2.02"
6-Apr-17	168	Ground Floor	Ceramic tile	grey/blue	2.03"
6-Apr-17	169	Ground Floor	CMU wall	white	2.40
6-Apr-17	171	Ground Floor	CMU wall	grey	1.60
6-Apr-17	172	Ground Floor	Door frame	grey	2.03"
6-Apr-17	173	Ground Floor	Door (office)	grey	2.02"
6-Apr-17	174	Ground Floor	Jipsom wall (office)	white	2.03"
6-Apr-17	175	Ground Floor	Jipsom wall (office)	white	2.06"
6-Apr-17	176	Ground Floor	Jepson wall (office)	white	2.02"
6-Apr-17	177	Ground Floor	Wall (office)	white	2.08"
6-Apr-17	178	Ground Floor	Wall (office)	white	2.03"
6-Apr-17	179	Ground Floor	Office door	grey	<LOD

**Lead-Based Paint**

*Ngcf/Eqpic/kpki/Rc/kpv'*

**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.

*Kc/rkz* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.

<LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	180	Ground Floor	Door frame	grey	2023"
6-Apr-17	181	Ground Floor	Wall	white	2022"
6-Apr-17	182	Ground Floor	Wall	white	2022"
6-Apr-17	183	Ground Floor	Closet door frame	white	2022"
6-Apr-17	184	Ground Floor	Door	white	2022"
6-Apr-17	185	Ground Floor	Closet wall	white	2022"
6-Apr-17	186	Ground Floor	CMU wall/closet	white	2022"
6-Apr-17	187	Ground Floor	Office (1) wall	white	2022"
6-Apr-17	188	Ground Floor	Office (2) wall	white	2022"
6-Apr-17	189	Ground Floor	Office (2) wall	white	2022"
6-Apr-17	190	Ground Floor	Office (3) wall	white	2022"
6-Apr-17	191	Ground Floor	Panel in Office (4)	grey	2023"
6-Apr-17	192	Ground Floor	Office (4) wall	white	2022"
6-Apr-17	193	Ground Floor	Office (5) wall	white	2022"
6-Apr-17	194	Ground Floor	Communications room wall	white	2023"
6-Apr-17	195	Ground Floor	Communications room panel	grey	2022"
6-Apr-17	197	Ground Floor	Office concrete wall	white	2025"
6-Apr-17	198	Ground Floor	Office (6) wall	white	2022"
6-Apr-17	199	Ground Floor	Office (6) wall	white	2022"
6-Apr-17	200	Ground Floor	Office wall	white	2022"
6-Apr-17	201	Ground Floor	Office (7) wall	white	2022"
6-Apr-17	202	Ground Floor	Office (8) wall	white	2022"

**Lead-Based Paint**

*Ngcf /Eqpic kpi Rc kpv'*

**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.

*Kc/rk* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.

<LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	204	Ground Floor	Door	green	202"
6-Apr-17	205	Ground Floor	Door frame	green	202"
6-Apr-17	206	Ground Floor	Women's restroom ceramic wall tile	purple	206"
6-Apr-17	207	Ground Floor	Women's restroom ceramic wall tile	pink	205"
6-Apr-17	208	Ground Floor	Women's restroom ceramic floor tile	pink	202"
6-Apr-17	209	Ground Floor	Men's ceramic wall tile	dark blue	203"
6-Apr-17	210	Ground Floor	Men's ceramic wall tile	light blue	205"
6-Apr-17	211	Ground Floor	Men's ceramic floor tile	white	203"
6-Apr-17	212	Ground Floor	Cabinet	blue	<b>5.20</b>
6-Apr-17	213	Ground Floor	Static Excitor	blue	<b>4.50</b>
6-Apr-17	214	Ground Floor	Transformer	blue	207"
6-Apr-17	215	Ground Floor	CMU wall	blue	202"
6-Apr-17	216	Ground Floor	Pipe	red	209"
6-Apr-17	217	Ground Floor	Panel	blue	204"
6-Apr-17	219	Ground Floor	Pipe	white	204"
6-Apr-17	220	Ground Floor	Pipe	grey	204"
6-Apr-17	221	Ground Floor	Pipe	grey	205"
6-Apr-17	222	Ground Floor	Panel	blue	204"
6-Apr-17	223	Ground Floor	Panel	blue	208;"
6-Apr-17	224	Ground Floor	CMU wall	blue	208;"
6-Apr-17	225	Ground Floor	Door	grey	202"
6-Apr-17	226	Ground Floor	Panel	grey	204"

**Lead-Based Paint**

Ngcf /Eppic kpipi 'Rc kpv'

**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.

**Italic** denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.

<LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	227	Ground Floor	Battery charger	grey	202"
6-Apr-17	228	Ground Floor	Battery charger	grey	202"
6-Apr-17	229	Ground Floor	Battery rack	grey	202"
6-Apr-17	230	Ground Floor	Battery charger	grey	202"
6-Apr-17	231	Ground Floor	Panel	grey	202"
6-Apr-17	232	Ground Floor	Floor	grey	203"
6-Apr-17	233	Ground Floor	Switch panel	blue	<b>1.50</b>
6-Apr-17	234	Ground Floor	Duct	blue	209"
6-Apr-17	235	Ground Floor	Condenser air pipe	grey	206"
6-Apr-17	236	Ground Floor	Condenser air pipe	grey	204. "
6-Apr-17	237	Ground Floor	Valve handle	yellow	208"
6-Apr-17	238	Ground Floor	Valve	grey	205"
6-Apr-17	239	Ground Floor	Pipe	grey	206"
6-Apr-17	240	Ground Floor	Tank	grey	204"
6-Apr-17	241	Ground Floor	Pipe	silver	202"
6-Apr-17	243	Ground Floor	Valve handle	yellow	207"
6-Apr-17	244	Ground Floor	Pipe	grey	209"
6-Apr-17	245	Ground Floor	Tank	grey	203"
6-Apr-17	246	Ground Floor	Railing	yellow	<b>2.90</b>
6-Apr-17	247	Ground Floor	Railing	black	202"
6-Apr-17	248	Ground Floor	Pipe	blue	202. "
6-Apr-17	249	Ground Floor	Pipe	blue	207"

**Lead-Based Paint**  
*Ngcf /Eqpic kpi 'Rc kpv'*  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kc/rk* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	250	Ground Floor	Valve	blue	2.07"
6-Apr-17	251	Ground Floor	Valve handle	yellow	2.06"
6-Apr-17	252	Ground Floor	Cylinder	green	2.072"
6-Apr-17	253	Ground Floor	Pipe	yellow	<b>2.00</b>
6-Apr-17	254	Ground Floor	Pipe	yellow	<b>2.90</b>
6-Apr-17	256	Ground Floor	Valve	grey	2.025"
6-Apr-17	257	Ground Floor	Valve handle	yellow	<b>1.20</b>
6-Apr-17	258	Ground Floor	Valve handle	yellow	2.024"
6-Apr-17	259	Ground Floor	Retest Valve handle (257)	yellow	<b>2.60</b>
6-Apr-17	260	Ground Floor	Pipe	silver	2.025"
6-Apr-17	261	Ground Floor	Valve handle	yellow	2.028"
6-Apr-17	262	Ground Floor	Valve	grey	2.02"
6-Apr-17	263	Ground Floor	Valve handle	yellow	2.02;"
6-Apr-17	264	Ground Floor	Exhauster pipe	grey	<b>5.10</b>
6-Apr-17	265	Ground Floor	Pipe	grey	<b>3.50</b>
6-Apr-17	266	Ground Floor	Pipe	grey	<b>2.00</b>
6-Apr-17	267	Ground Floor	Valve	grey	2.02"
6-Apr-17	268	Ground Floor	Pipe	grey	<b>2.30</b>
6-Apr-17	269	Ground Floor	Valtek (motor)	green	2.026"
6-Apr-17	270	Ground Floor	Pipe	grey	2.022"
6-Apr-17	271	Ground Floor	Valve	grey	2.023"
6-Apr-17	272	Ground Floor	Valve handle	yellow	2.02"

**Lead-Based Paint**  
*Ngcf /Eqpic kpi 'Rc kpv'*  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kc/rk* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	273	Ground Floor	Pipe	grey	1.70
6-Apr-17	274	Ground Floor	Pipe	white	2.50
6-Apr-17	275	Ground Floor	Motor	blue	2.026"
6-Apr-17	277	Ground Floor	Pump	grey	2.052"
6-Apr-17	278	Ground Floor	Pipe	yellow	9.70
6-Apr-17	279	Ground Floor	Pipe	yellow	11.6
6-Apr-17	280	Ground Floor	Filter	black	2.30
6-Apr-17	281	Ground Floor	Pump	black	2.02."
6-Apr-17	282	Ground Floor	Motor	black	2.025"
6-Apr-17	283	Ground Floor	Pipe	yellow	6.30
6-Apr-17	284	Ground Floor	Pipe	yellow	7.40
6-Apr-17	285	Ground Floor	Pipe	grey	2.02"
6-Apr-17	286	Ground Floor	Pipe	grey	2.024"
6-Apr-17	287	Ground Floor	Pipe (small)	blue	3.40
6-Apr-17	288	Ground Floor	Pipe	blue	2.023"
6-Apr-17	289	Ground Floor	Pipe	grey	2.30
6-Apr-17	290	Ground Floor	Pipe	red	2.02"
6-Apr-17	291	Ground Floor	Pipe	grey	3.30
6-Apr-17	292	Ground Floor	Pipe	white	2.023"
6-Apr-17	293	Ground Floor	Pipe	yellow	8.30
6-Apr-17	294	Ground Floor	Motor	blue	<LOD
6-Apr-17	295	Ground Floor	Cladding	yellow	2.02"

**Lead-Based Paint**  
*Ngcf /Eqpic kpipi 'Rc kpv'*  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kc/rkz* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.







**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	296	Ground Floor	Box	silver	2.02"
6-Apr-17	297	Ground Floor	Valve	yellow	<b>6.30</b>
6-Apr-17	298	Ground Floor	Heater cladding	silver	2.02"
6-Apr-17	299	Ground Floor	Heater frame	black	<b>5.40</b>
6-Apr-17	300	Ground Floor	Foundation	grey	2.04"
6-Apr-17	301	Ground Floor	Concrete pad	black	2.04"
6-Apr-17	302	Ground Floor	Tank	gold	2.02"
6-Apr-17	303	Ground Floor	Pipe	grey	<b>3.60</b>
6-Apr-17	304	Ground Floor	Door frame	grey	2.02"
6-Apr-17	305	Ground Floor	Generator	yellow	2.02"
6-Apr-17	306	Ground Floor	Foundation	black	2.02"
6-Apr-17	308	Ground Floor	Concrete pad	yellow	2.02"
6-Apr-17	309	Ground Floor	Filter	yellow	2.02"
6-Apr-17	310	Ground Floor	Motor	yellow	2.02"
6-Apr-17	311	Ground Floor	Exhaust route	yellow	2.02"
6-Apr-17	312	Ground Floor	Day tank	blue	2.02"
6-Apr-17	313	Ground Floor	Overhead beam	red	2.02"
6-Apr-17	314	Ground Floor	Panel/switch	blue	2.02"
6-Apr-17	315	Ground Floor	Panel	blue	2.02"
6-Apr-17	316	Ground Floor	Panel	blue	2.02"
6-Apr-17	317	Ground Floor	Panel	blue	2.02"
6-Apr-17	318	Ground Floor	Panel	blue	2.02"

**Lead-Based Paint**

*Ngcf /Eppic kpi Rc kpv'*

**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.

*Kc/rk* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.

<LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	319	Ground Floor	Panel	grey	2.02"
6-Apr-17	320	Ground Floor	Panel	blue	2.02"
6-Apr-17	321	Ground Floor	CRV	green	2.062"
6-Apr-17	322	Ground Floor	Valve handle	yellow	2.02"
6-Apr-17	323	Ground Floor	CRV	green	2.02"
6-Apr-17	324	Ground Floor	Valve	grey	2.06"
6-Apr-17	325	Ground Floor	Pipe	yellow	2.02"
6-Apr-17	326	Ground Floor	Lube/tank	green	2.082"
6-Apr-17	327	Ground Floor	Pump	blue	2.02."
6-Apr-17	328	Ground Floor	Pump	blue	2.02"
6-Apr-17	329	Ground Floor	Panel	blue	2.02"
6-Apr-17	330	Ground Floor	Pump	blue	<b>10.3</b>
6-Apr-17	331	Ground Floor	Tank	green	2.052"
6-Apr-17	332	Ground Floor	Motor dome	silver	2.087"
6-Apr-17	333	Ground Floor	Pump	blue	2.02."
6-Apr-17	334	Ground Floor	Foundation	yellow	2.023"
6-Apr-17	335	Ground Floor	Pipe	yellow	2.02"
6-Apr-17	336	Ground Floor	Pipe	Yellow	<b>6.20</b>
6-Apr-17	337	Ground Floor	Ladder	grey	2.02."
6-Apr-17	338	Ground Floor	Pipe (large)	yellow	<b>2.90</b>
6-Apr-17	339	Ground Floor	Pipe	yellow	<b>2.90</b>
6-Apr-17	340	Ground Floor	Panel	grey	2.087"

**Lead-Based Paint**

Ngcf/Eqpic/kp/ki/Rc/kpv'  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kc/rk/* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
6-Apr-17	341	Ground Floor	Railing	yellow	202"
6-Apr-17	342	Ground Floor	Railing	yellow	3.60
6-Apr-17	343	Ground Floor	Pipe	green	2023"
6-Apr-17	344	Ground Floor	Pipe	yellow	9.40
6-Apr-17	345	Ground Floor	Pump	grey	202"
6-Apr-17	346	Ground Floor	Foundation	grey	202"
6-Apr-17	347	Ground Floor	Concrete pad	grey	202."
6-Apr-17	348	Ground Floor	Pipe	yellow	9.00
6-Apr-17	349	Ground Floor	CRV (Valtek)	green	202"
6-Apr-17	350	Ground Floor	Pipe	grey	2.10
6-Apr-17	351	Ground Floor	Railing	yellow	3.60
6-Apr-17	352	Ground Floor	Panel	blue	202"
6-Apr-17	353	Ground Floor	Panel	green	2023"
6-Apr-17	354	Ground Floor	Panel	green	2024"
6-Apr-17	355	Ground Floor	CO <sub>2</sub> Tank	red	202"
6-Apr-17	356	Ground Floor	CO <sub>2</sub> Tank	red	2027"
6-Apr-17	357	Ground Floor	Manifold pipe	red	202."
6-Apr-17	358	Ground Floor	Frame	black	2025"
6-Apr-17	359	Ground Floor	Railing	black	3.70
5-Apr-17	68	Operating Floor	#3 sign wall	red	2025"
5-Apr-17	69	Operating Floor	Dump tank vent pipe	yellow	6.20
5-Apr-17	70	Operating Floor	Angle iron	grey	3.20

**Lead-Based Paint**

Ngcf/Eqpiε kp lpi 'Rc kp v"  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kc rε v* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
5-Apr-17	71	Operating Floor	Auxiliary steam line	grey	2.02"
5-Apr-17	72	Operating Floor	Valve	green	2.02"
5-Apr-17	73	Operating Floor	Pipe	grey	2.023"
5-Apr-17	74	Operating Floor	Pump motor shroud	grey	<LOD
5-Apr-17	75	Operating Floor	Motor	blue	2.02"
5-Apr-17	76	Operating Floor	Concrete foundation	grey	2.07"
5-Apr-17	77	Operating Floor	Concrete pad	black	2.023"
5-Apr-17	78	Operating Floor	Gauge back plate	grey	<b>3.10</b>
5-Apr-17	79	Operating Floor	Gauge	green	2.026"
5-Apr-17	80	Operating Floor	Motor shroud	blue	2.02"
5-Apr-17	81	Operating Floor	Foundation	grey	<LOD
5-Apr-17	82	Operating Floor	Guard rails and pipes	yellow	<b>6.60</b>
5-Apr-17	83	Operating Floor	Staircase foundation	yellow	<b>2.30</b>
5-Apr-17	84	Operating Floor	Boiler hatch	silver	2.02"
5-Apr-17	85	Operating Floor	Boiler electrical panel	silver	2.025"
5-Apr-17	86	Operating Floor	Pipe Boiler 1	red	2.02"
5-Apr-17	87	Operating Floor	Pipe Boiler 1	red	2.025"
5-Apr-17	88	Operating Floor	Electrical conduit	blue	2.023"
5-Apr-17	89	Operating Floor	Pump I-52	green	<b>1.60</b>
5-Apr-17	90	Operating Floor	Pump	green	2.028"
5-Apr-17	91	Operating Floor	Valve	yellow	2.02"
5-Apr-17	92	Operating Floor	Fuel line	yellow	<b>8.40</b>

**Lead-Based Paint**  
*Ngcf /Eqpic kpi Rc kvv'*  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kc/rkz* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
5-Apr-17	93	Operating Floor	Pipe	grey	2.03"
5-Apr-17	94	Operating Floor	Pipe - small	green	<b>2.90</b>
5-Apr-17	95	Operating Floor	Hoses rubber	silver	2.02"
5-Apr-17	96	Operating Floor	Hoses rubber	red	2.02"
5-Apr-17	97	Operating Floor	Hoses rubber	yellow	2.02"
5-Apr-17	98	Operating Floor	Boiler	silver	2.02"
5-Apr-17	99	Operating Floor	Electrical panel	blue	2.03"
5-Apr-17	100	Operating Floor	Electrical panel	blue	2.03"
5-Apr-17	101	Operating Floor	Pipe	yellow	<b>5.90</b>
5-Apr-17	102	Operating Floor	Filter	yellow	<b>5.20</b>
5-Apr-17	103	Operating Floor	CRV 1-29	green	2.06"
5-Apr-17	104	Operating Floor	CRV 1-28	green	2.02"
5-Apr-17	105	Operating Floor	Electrical panel	blue	2.03"
5-Apr-17	106	Operating Floor	Pressure valve	yellow	<b>6.00</b>
5-Apr-17	107	Operating Floor	Electrical panel	blue	2.03"
5-Apr-17	108	Operating Floor	Gauge	green	2.02"
5-Apr-17	109	Operating Floor	Pipe	grey	2.02"
5-Apr-17	110	Operating Floor	Pipe	yellow	<b>6.30</b>
5-Apr-17	111	Operating Floor	CRV 1-27	green	2.02"
5-Apr-17	112	Operating Floor	Condenser tank	grey	2.06"
5-Apr-17	113	Operating Floor	Switch box/panel	blue	2.03"
5-Apr-17	114	Operating Floor	Switch box/panel	blue	2.02"

**Lead-Based Paint**  
*Ngcf /Eqpvv kplpi 'Rc kpvv'*  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kcrlv* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
5-Apr-17	115	Operating Floor	Concrete base	yellow	2.40
5-Apr-17	116	Operating Floor	Duct	grey	2.03"
5-Apr-17	117	Operating Floor	Electrical panel soot blower	blue	2.03"
5-Apr-17	118	Operating Floor	Staircase	yellow	1.00
5-Apr-17	119	Operating Floor	Water level gauge	blue	2.07"
5-Apr-17	120	Operating Floor	Shop table	grey	1.40
5-Apr-17	121	Operating Floor	Lube oil conductor vent	yellow	3.20
5-Apr-17	122	Operating Floor	Railing and pipes	grey	4.50
5-Apr-17	123	Operating Floor	Pipe	blue	2.04"
5-Apr-17	124	Operating Floor	Railing - corroded	grey	2.30
5-Apr-17	125	Operating Floor	Ducting vent	grey	2.02"
5-Apr-17	126	Operating Floor	Pump and motor	grey	2.06"
5-Apr-17	127	Operating Floor	Pump	grey	1.30
5-Apr-17	128	Operating Floor	Pump pipe	grey	3.70
5-Apr-17	129	Operating Floor	Foundation - steel	grey	1.90
5-Apr-17	130	Operating Floor	Concrete base	grey	2.08"
5-Apr-17	131	Operating Floor	Boiler door	grey	2.02"
5-Apr-17	132	Operating Floor	Electrical panel	blue	2.03"
5-Apr-17	133	Operating Floor	Lagging	silver	<LOD
5-Apr-17	134	Operating Floor	Lagging	yellow	2.02"
5-Apr-17	135	Operating Floor	Pipe	yellow	2.02"
5-Apr-17	136	Operating Floor	Pipe	yellow	9.10

**Lead-Based Paint**

*Ngcf /Eqpic kpi Rc kpv'*

**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.

*Kc/rk* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.

<LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
5-Apr-17	137	Operating Floor	Electrical conduit	blue	2025"
5-Apr-17	138	Operating Floor	CRV 2-11	green	1.60
5-Apr-17	139	Operating Floor	Pipe	yellow	11.0
5-Apr-17	140	Operating Floor	Pipe	red	2022"
5-Apr-17	141	Operating Floor	Pipe	green	2.20
5-Apr-17	142	Operating Floor	Electrical panel	blue	2024"
5-Apr-17	143	Operating Floor	Filter/canister	yellow	12.7
5-Apr-17	144	Operating Floor	Pipe	yellow	14.7
5-Apr-17	145	Operating Floor	CRV 2-52	green	1.10
5-Apr-17	146	Operating Floor	Flux hose	yellow	2025"
5-Apr-17	148	Operating Floor	Flux hose	red	2023"
5-Apr-17	149	Operating Floor	Pipe	green	2025"
5-Apr-17	150	Operating Floor	Pipe	silver	2025"
5-Apr-17	151	Operating Floor	Valve	green	2026"
5-Apr-17	152	Operating Floor	Pipe	yellow	8.80
5-Apr-17	154	Operating Floor	Electrical panel	blue	2023"
5-Apr-17	155	Operating Floor	Canister	yellow	14.4
5-Apr-17	157	Operating Floor	CRV	green	2022"
5-Apr-17	158	Operating Floor	Electrical panel	blue	2024"
5-Apr-17	159	Operating Floor	Pipe	yellow	5.30
5-Apr-17	160	Operating Floor	Electrical switch	blue	2022"
5-Apr-17	161	Operating Floor	Gauge	green	2022"

**Lead-Based Paint**  
*Ngcf/Eqpic/kp/ki/Rc/kpv'*  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kc/rk/rk* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
5-Apr-17	162	Operating Floor	Condenser water	grey	2.02"
5-Apr-17	163	Operating Floor	Small pump	blue	2.06"
5-Apr-17	164	Operating Floor	Foundation	grey	2.0 2"
5-Apr-17	165	Operating Floor	Switch panel	blue	2.06"
5-Apr-17	166	Operating Floor	Switch panel	blue	2.05"
5-Apr-17	167	Operating Floor	Pipe	yellow	<b>3.10</b>
5-Apr-17	168	Operating Floor	Pipe 2 in.	grey	<LOD
5-Apr-17	169	Operating Floor	Pipe 0.5 in.	yellow	<b>1.70</b>
5-Apr-17	170	Operating Floor	Pipe 4 in.	grey	2.05"
5-Apr-17	171	Operating Floor	Pipe 8 in.	blue	2.09"
5-Apr-17	172	Operating Floor	Pipe 1 in.	grey	2.06"
5-Apr-17	173	Operating Floor	Pipe 1.5 in.	grey	2.04"
5-Apr-17	174	Operating Floor	Pipe 2 in.	beige	2.09"
5-Apr-17	175	Operating Floor	Iron	grey	<b>2.90</b>
5-Apr-17	176	Operating Floor	Duct	black	<b>1.80</b>
5-Apr-17	177	Operating Floor	Switch	blue	2.08"
5-Apr-17	178	Operating Floor	Pipe at steps	yellow	<b>3.20</b>
5-Apr-17	179	Operating Floor	Generator box	black	2.02"
5-Apr-17	180	Operating Floor	Generator box lead	blue	2.02"
5-Apr-17	181	Operating Floor	Generator box	grey	2.0 2"
5-Apr-17	182	Operating Floor	Generator box with gauge	grey	2.06"
5-Apr-17	183	Operating Floor	Generator	Black	2.02"

**Lead-Based Paint**  
*Ngcf/Eqpic/kpki/Rc/kpv'*  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kc/rkz* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.







**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
5-Apr-17	184	Operating Floor	Pump	blue	2.02"
5-Apr-17	185	Operating Floor	GE generator	grey	1.40
5-Apr-17	186	Operating Floor	GE generator with gauge	grey	2.10
5-Apr-17	187	Operating Floor	Com. at end	blue	2.02"
5-Apr-17	188	Operating Floor	Railing	yellow	15.2
5-Apr-17	189	Operating Floor	Railing	black	5.60
5-Apr-17	190	Operating Floor	Generator set #1	grey	2.02"
5-Apr-17	192	Operating Floor	Generator set #1	grey	2.02"
5-Apr-17	193	Operating Floor	Generator set with gauge part	grey	2.02"
5-Apr-17	194	Operating Floor	Generator set #1	grey	1.00
5-Apr-17	195	Operating Floor	Generator set #1	grey	2.02"
5-Apr-17	196	Operating Floor	Deck plate #1	yellow	<LOD
5-Apr-17	197	Operating Floor	Probes	black	7.00
5-Apr-17	198	Operating Floor	Probes	black	9.90
5-Apr-17	199	Operating Floor	Probes	black	5.80
5-Apr-17	200	Operating Floor	Probes	black	6.00
5-Apr-17	201	Operating Floor	Floor	black	2.02"
5-Apr-17	202	Operating Floor	Stripping paint	yellow	2.02"
5-Apr-17	203	Operating Floor	Back corner transformer	blue	2.02"
5-Apr-17	204	Operating Floor	Back corner switch	blue	2.02"
5-Apr-17	205	Operating Floor	Pipe	yellow	1.40
5-Apr-17	206	Operating Floor	Pipe	grey	2.02"

**Lead-Based Paint**

Ngcf/Eqpic/kpki/Rc/kpv'

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**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
5-Apr-17	207	Operating Floor	lagging - pipe	black	2.02"
5-Apr-17	208	Operating Floor	Transformer	dark grey	2.02"
5-Apr-17	209	Operating Floor	Transformer	dark grey	2.02"
5-Apr-17	210	Operating Floor	Transformer No. 2.2	light green	2.02"
5-Apr-17	211	Operating Floor	Transformer No. 2.2	green	2.05"
5-Apr-17	212	Operating Floor	Concrete base	yellow	<b>2.30</b>
5-Apr-17	213	Operating Floor	Switches	black	2.05"
5-Apr-17	214	Operating Floor	Overhead duct	blue	2.05"
5-Apr-17	215	Operating Floor	Overhead duct	black	2.03"
5-Apr-17	216	Operating Floor	Switch motor	grey	2.02"
5-Apr-17	217	Operating Floor	Breaker box	blue	2.07"
5-Apr-17	218	Operating Floor	Breaker box	blue	2.02"
5-Apr-17	219	Operating Floor	Back side	grey	2.05"
5-Apr-17	220	Operating Floor	Gauge panel	blue	2.03"
5-Apr-17	221	Operating Floor	Pumps	blue	2.06"
5-Apr-17	222	Operating Floor	Concrete base	black	<b>3.70</b>
5-Apr-17	223	Operating Floor	Transformer wall	blue	2.02"
5-Apr-17	224	Operating Floor	Transformer wall	blue	2.04"
5-Apr-17	225	Operating Floor	Battery charger 1-1	grey	2.02"
5-Apr-17	226	Operating Floor	Battery charger 2-2	grey	2.03"
5-Apr-17	227	Operating Floor	Electrical box panel	grey	2.03"
5-Apr-17	228	Operating Floor	Electrical box panel	red	2.02"

**Lead-Based Paint**

Ngcf/Eqpic/kpki/Rc/kpv'

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**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
5-Apr-17	229	Operating Floor	Electrical box panel	grey	2.03"
5-Apr-17	230	Operating Floor	Battery rack 1	black	2.02"
5-Apr-17	231	Operating Floor	Battery rack 2	black	2.08"
5-Apr-17	232	Operating Floor	D.C. panel No. 1	grey	2.03"
5-Apr-17	233	Operating Floor	Box	grey	2.02"
5-Apr-17	234	Operating Floor	Concrete base	yellow	7.30
5-Apr-17	235	Operating Floor	Unit 1 AUX transformer	grey	2.02"
5-Apr-17	236	Operating Floor	Switches	blue	2.03"
5-Apr-17	237	Operating Floor	Transformer	grey	2.09"
5-Apr-17	238	Operating Floor	Pump 1	blue	2.04: "
5-Apr-17	239	Operating Floor	Concrete base	black	12.3
5-Apr-17	240	Operating Floor	Control panel	blue	2.02"
5-Apr-17	241	Operating Floor	Time meter panel	blue	2.03"
5-Apr-17	242	Operating Floor	Switch panel rear	grey	2.03"
5-Apr-17	243	Operating Floor	Pipe	grey	5.50
5-Apr-17	244	Operating Floor	Storage cabinet	blue	2.60
5-Apr-17	245	Operating Floor	"H" beam structure	grey	1.30
5-Apr-17	246	Operating Floor	Stairs to control room	yellow	5.00
5-Apr-17	247	Operating Floor	Stairs to control room - frame	black	2.08"
5-Apr-17	248	Operating Floor	Crane - trolley	grey	3.60
5-Apr-17	249	Operating Floor	Crane - trolley	grey	10.9
5-Apr-17	7	Control Room	Back room wall	white	2.02"

**Lead-Based Paint**

Ngcf/Eqpic/kpki/Rc/kpv'

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**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
5-Apr-17	8	Control Room	Structural Iron	white	202"
5-Apr-17	9	Control Room	Concrete column	white	202.3"
5-Apr-17	11	Control Room	CMU wall	white	<LOD
5-Apr-17	12	Control Room	CMU large room	white	<LOD
5-Apr-17	13	Control Room	Column large room	white	202"
5-Apr-17	14	Control Room	Electrical panel	blue	202.3"
5-Apr-17	15	Control Room	HVAC	grey	202"
5-Apr-17	16	Control Room	Wall	white	206"
5-Apr-17	17	Control Room	Small office wall	white	202"
5-Apr-17	18	Control Room	Ceramic floor (12 x 12)	white	<b>5.80</b>
5-Apr-17	19	Control Room	Room	white	<b>4.30</b>
5-Apr-17	20	Control Room	Door - breach	grey	202"
5-Apr-17	21	Control Room	Jamb - breach	grey	202"
5-Apr-17	22	Control Room	Wall - breach	grey	202"
5-Apr-17	23	Control Room	Concrete wall - breach	grey	202"
5-Apr-17	24	Control Room	Floor - breach	tan	202.4"
5-Apr-17	25	Control Room	Floor - breach	orange	206"
5-Apr-17	26	Control Room	Door	grey	<b>1.90</b>
5-Apr-17	27	Control Room	Door jamb / frame	grey	<b>1.10</b>
5-Apr-17	28	Control Room	CMU wall	grey	202. "
5-Apr-17	29	Control Room	Concrete wall panel	white	202. "
5-Apr-17	30	Control Room	Fire box	red	208"

**Lead-Based Paint**

Ngcf/Eqpic/kpki/Rc/kpv'

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**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
5-Apr-17	31	Control Room	Bathroom - door jamb	grey	2.02"
5-Apr-17	32	Control Room	Bathroom door	grey	2.02"
5-Apr-17	33	Control Room	Bathroom wall tile	green	2.04, "
5-Apr-17	34	Control Room	Bathroom wall tile	green	2.02"
5-Apr-17	35	Control Room	Bathroom floor tile	green	2.03"
5-Apr-17	36	Control Room	Storage room door	grey	2.02"
5-Apr-17	37	Control Room	Storage room frame	grey	2.02"
5-Apr-17	38	Control Room	Storage room wall	grey	2.02"
5-Apr-17	39	Control Room	Storage room electrical panel	grey	2.02"
5-Apr-17	40	Control Room	Pipe lagging	black	2.03"
5-Apr-17	41	Control Room	Pipe lagging	black	2.09"
5-Apr-17	42	Control Room	Control room tile	green	<b>6.00</b>
5-Apr-17	43	Control Room	CMU wall with window	grey	2.02"
5-Apr-17	44	Control Room	Wall	white	<LOD
5-Apr-17	45	Control Room	Iron	beige	2.08, "
5-Apr-17	46	Control Room	Cabinet	grey	2.02"
5-Apr-17	47	Control Room	SA cabinet	grey	2.02"
5-Apr-17	48	Control Room	Generator Controller	grey	2.02"
5-Apr-17	49	Control Room	HVAC - trane	black	2.02"
5-Apr-17	50	Control Room	Control Panel #1	green	2.04"
5-Apr-17	51	Control Room	Generator Control panel #1	green	2.04"
5-Apr-17	52	Control Room	x-103-s	grey	2.02"

**Lead-Based Paint**  
*Ngcf /Eqpic kpi Rc kvv'*  
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**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
5-Apr-17	53	Control Room	x-103	grey	2.05"
5-Apr-17	54	Control Room	21	grey	2.02"
5-Apr-17	55	Control Room	x-101	grey	2.05"
5-Apr-17	56	Control Room	25	grey	2.02"
5-Apr-17	57	Control Room	Blank	grey	2.05"
5-Apr-17	58	Control Room	Blank #1	grey	2.02"
5-Apr-17	59	Control Room	Blank #2	grey	2.02"
5-Apr-17	60	Control Room	Combo box	grey	2.02"
5-Apr-17	61	Control Room	Boiler control	green	2.04"
5-Apr-17	62	Control Room	Boiler control	green	2.08"
5-Apr-17	63	Control Room	Boiler control back	green	2.07"
3-Apr-17	91	Drum Deck	Back up diesel generator wall	white	2.08"
3-Apr-17	92	Drum Deck	Back up diesel generator door	green	2.02"
5-Apr-17	64	Control Room	LEEDS at North Ramp	green	2.03"
5-Apr-17	65	Control Room	HVAC	black	2.02"
5-Apr-17	66	Control Room	Control panel	grey	2.06"
5-Apr-17	67	Control Room	PCS-CP-Metso	grey	2.02"
3-Apr-17	88	Drum Deck	Cylinder strap	yellow	2.30
3-Apr-17	89	Drum Deck	No smoking sign paint	yellow	3.00
3-Apr-17	90	Drum Deck	Paint behind fire extinguisher	red	2.08"
3-Apr-17	94	Drum Deck	Bay door frame	yellow	9.60
3-Apr-17	95	Drum Deck	Access ladder	grey	3.50

**Lead-Based Paint**

Ngcf /Eqpic /kpi /Rc /kpv

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**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
3-Apr-17	96	Drum Deck	Valve pit	yellow	2.02"
3-Apr-17	97	Drum Deck	Cooling water bollard	yellow	2.02"
3-Apr-17	98	Drum Deck	Cooling water bollard	yellow	7.70
3-Apr-17	99	Drum Deck	Cooling water bollard	yellow	5.60
3-Apr-17	100	Drum Deck	Water tank motor	blue	2.05"
3-Apr-17	101	Drum Deck	Water tank valve	blue	4.80
3-Apr-17	102	Drum Deck	Water tank valve	blue	7.60
3-Apr-17	103	Drum Deck	Water tank motor	blue	2.03"
3-Apr-17	104	Drum Deck	Water tank power box	blue	2.05"
3-Apr-17	105	Drum Deck	Water tank power box	blue	2.09"
3-Apr-17	106	Drum Deck	Metal frame	red	2.02"
3-Apr-17	107	Drum Deck	Water tank railing	yellow	9.30
3-Apr-17	108	Drum Deck	Water tank	blue	<LOD
3-Apr-17	109	Drum Deck	Water tank valve	blue	7.50
3-Apr-17	110	Drum Deck	Metal Grate	grey	2.02"
3-Apr-17	111	Drum Deck	Traveling water screener	white	2.02"
3-Apr-17	112	Drum Deck	Water pump	yellow	2.02"
3-Apr-17	113	Drum Deck	Water pump	red	2.02"
3-Apr-17	114	Drum Deck	Water pump	yellow	2.40
3-Apr-17	115	Drum Deck	Water pump piping	red	2.06"
3-Apr-17	116	Drum Deck	Water pump piping	yellow	4.00
3-Apr-17	117	Drum Deck	Water pump piping	red	10.1

**Lead-Based Paint**

*Ngcf /Eqpic kpi Rc kvv'*

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**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
3-Apr-17	118	Drum Deck	Water pump piping	white	2.02"
3-Apr-17	119	Drum Deck	Water pump piping	yellow	1.90
3-Apr-17	120	Drum Deck	Water pump piping	yellow	2.02"
3-Apr-17	121	Drum Deck	After pump flange	yellow	5.10
3-Apr-17	122	Drum Deck	Old water pump	blue	2.05"
3-Apr-17	123	Drum Deck	Wall near old water pump	beige	2.04"
3-Apr-17	124	Drum Deck	Water tank beam	grey	2.04"
3-Apr-17	125	Drum Deck	Retest beam	grey	2.07"
3-Apr-17	126	Drum Deck	Equipment foundation	red	2.03"
3-Apr-17	127	Drum Deck	Pipe frame	red	<LOD
3-Apr-17	128	Drum Deck	Electrical box	blue	2.02"
3-Apr-17	129	Drum Deck	Grinder pedestal	blue	5.00
3-Apr-17	130	Drum Deck	Injection well bollard	yellow	1.60
3-Apr-17	131	Drum Deck	Injection well case	yellow	2.02"
3-Apr-17	132	Drum Deck	Injection well bollard	yellow	2.0 2"
3-Apr-17	133	Drum Deck	Injection well bollard	yellow	2.30
3-Apr-17	134	Drum Deck	Injection well case	yellow	2.02"
3-Apr-17	135	Drum Deck	Maintenance building bollard	yellow	1.10
3-Apr-17	136	Drum Deck	Hydromatic box	blue	<LOD
3-Apr-17	137	Drum Deck	Concrete pad	grey	2.04"
3-Apr-17	138	Drum Deck	Concrete pad	grey	2.062"
3-Apr-17	139	Drum Deck	Warehouse north wall	white	2.02"

**Lead-Based Paint**  
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**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
3-Apr-17	140	Drum Deck	Warehouse door	grey	2.08"
3-Apr-17	141	Drum Deck	Warehouse north wall	white	2.02"
3-Apr-17	142	Drum Deck	Warehouse north wall	white	2.09"
3-Apr-17	143	Drum Deck	Warehouse bollard	red	2.02"
3-Apr-17	144	Drum Deck	Warehouse trim	yellow	2.02"
3-Apr-17	145	Drum Deck	Equipment metal foundation	black	2.04"
3-Apr-17	146	Drum Deck	Burn	yellow	2.03"
3-Apr-17	147	Drum Deck	Warehouse door	grey	2.02"
3-Apr-17	148	Drum Deck	Warehouse door frame	grey	2.03"
3-Apr-17	149	Drum Deck	Wood door	white	2.02"
3-Apr-17	150	Drum Deck	Wood door frame	white	2.09"
3-Apr-17	151	Drum Deck	Wood door	white	2.02"
3-Apr-17	152	Drum Deck	Wood door frame	white	2.02"
3-Apr-17	153	Drum Deck	Metal slide door	green	2.02"
3-Apr-17	154	Drum Deck	Metal slide door	green	2.05"
3-Apr-17	155	Drum Deck	Bollard (1)	yellow	<b>1.50</b>
3-Apr-17	156	Drum Deck	Bollard (2)	yellow	<b>1.30</b>
3-Apr-17	157	Drum Deck	Bollard	red	2.02"
3-Apr-17	158	Drum Deck	Bollard	red	<b>1.70</b>
3-Apr-17	159	Drum Deck	Planters	yellow, blue, grey	<b>1.20</b>
3-Apr-17	160	Drum Deck	Planters	yellow, blue, grey	<b>1.40</b>
3-Apr-17	161	Drum Deck	Planter	green	2.03"

**Lead-Based Paint**

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**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
3-Apr-17	162	Drum Deck	Fire suppressant	red	2.03"
3-Apr-17	163	Drum Deck	Fire suppressant	red	2.06"
3-Apr-17	164	Drum Deck	Bollard	yellow	1.50
3-Apr-17	165	Drum Deck	Valve cap	yellow	2.02"
3-Apr-17	166	Drum Deck	Fire hydrant rear transformer	yellow	8.90
3-Apr-17	167	Drum Deck	Phone box	blue	2.09"
3-Apr-17	168	Drum Deck	Phone box frame	blue	2.02"
3-Apr-17	170	Drum Deck	Transformer entry stair	yellow	2.05"
3-Apr-17	171	Drum Deck	Transformer	grey	2.05"
3-Apr-17	172	Drum Deck	Transformer frame	grey	2.09"
3-Apr-17	173	Drum Deck	Transformer box	grey	2.07"
3-Apr-17	174	Drum Deck	Concrete base	green	2.02"
3-Apr-17	175	Drum Deck	Transformer	grey	2.04"
3-Apr-17	176	Drum Deck	X-103 frame	beige	4.60
3-Apr-17	177	Drum Deck	X-103 transformer	beige	4.40
3-Apr-17	178	Drum Deck	X-103 panel	beige	4.20
3-Apr-17	179	Drum Deck	X-102 frame	beige	2.60
3-Apr-17	180	Drum Deck	X-102 transformer	beige	2.30
3-Apr-17	181	Drum Deck	X-102 box	beige	1.40
3-Apr-17	182	Drum Deck	X-100 frame	beige	2.50
3-Apr-17	183	Drum Deck	X-100 tank	beige	2.60
3-Apr-17	184	Drum Deck	X-100 panel	beige	2.10

**Lead-Based Paint**

*Ngcf /Eqpic kpi Rc kpv'*

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**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
3-Apr-17	185	Drum Deck	X-104 panel	beige	2.10
3-Apr-17	186	Drum Deck	X-104 transformer	beige	2.00
3-Apr-17	187	Drum Deck	X-104 frame	beige	2.00
3-Apr-17	188	Drum Deck	X-101 panel	beige	2.02"
3-Apr-17	189	Drum Deck	X-105 panel	beige	2.30
3-Apr-17	190	Drum Deck	X-105 transformer	beige	2.80
3-Apr-17	191	Drum Deck	X-105 frame	beige	2.30
3-Apr-17	192	Drum Deck	T-1 transformer	green	2.90
3-Apr-17	193	Drum Deck	T-1 cooling coil	grey	2.02"
3-Apr-17	194	Drum Deck	T-1 transformer	green	2.50
3-Apr-17	195	Drum Deck	T-2 coil	grey	2.02"
3-Apr-17	196	Drum Deck	Transformer (T-2)	grey	2.02"
3-Apr-17	197	Drum Deck	Transformer (T-2)	grey	2.02"
3-Apr-17	198	Drum Deck	Fuel line (South of plant)	yellow	2.02"
3-Apr-17	199	Drum Deck	Fuel line (South of plant)	yellow	2.02"
3-Apr-17	200	Drum Deck	Fuel line	yellow	4.30
3-Apr-17	201	Drum Deck	Fuel line	yellow	3.90
3-Apr-17	202	Drum Deck	Fuel line	yellow	2.02"
3-Apr-17	203	Drum Deck	Fuel line	yellow	1.50
3-Apr-17	204	Drum Deck	Fuel line	yellow	1.80
3-Apr-17	205	Drum Deck	Fuel line	yellow	3.10
3-Apr-17	206	Drum Deck	Fuel line	yellow	3.50

**Lead-Based Paint**

*Ngcf /Eqpic kpi Rc kpv'*

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**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
3-Apr-17	207	Drum Deck	Fuel line	yellow	4.40
3-Apr-17	208	Drum Deck	Fuel line	yellow	2.60
3-Apr-17	209	Drum Deck	Fuel line	yellow	3.80
3-Apr-17	210	Drum Deck	Fuel line	yellow	7.90
3-Apr-17	211	Drum Deck	Fuel line	yellow	3.20
3-Apr-17	212	Drum Deck	Fuel line	yellow	6.20
3-Apr-17	213	Drum Deck	Fuel line	yellow	3.40
3-Apr-17	214	Drum Deck	Conduit	blue	2.04"
3-Apr-17	215	Drum Deck	Bollard	yellow	5.90
3-Apr-17	216	Drum Deck	Fuel line	yellow	2.02"
3-Apr-17	217	Drum Deck	Fuel line in tank area No. 6	yellow	2.02"
3-Apr-17	218	Drum Deck	Fuel line	red	2.02"
3-Apr-17	220	Drum Deck	Railing	yellow	<LOD
3-Apr-17	222	Drum Deck	Crane access	yellow	<LOD
3-Apr-17	223	Drum Deck	Duct	silver	<LOD
3-Apr-17	224	Drum Deck	Heavy duty fan	grey	<LOD
3-Apr-17	225	Drum Deck	Motor	blue	<LOD
3-Apr-17	226	Drum Deck	Motor box	grey	<LOD
3-Apr-17	227	Drum Deck	Concrete base	grey	<LOD
3-Apr-17	228	Drum Deck	CRV 1-3	green	<LOD
3-Apr-17	229	Drum Deck	Auxiliary cooling tank 1-1	grey	2.0 2"
3-Apr-17	230	Drum Deck	Retest Auxiliary cooling tank 1-1	grey	1.80

**Lead-Based Paint**

*Ngcf /Eppic kpipi 'Rc kpv'*

**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.

*Kc/rkz* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.

<LOD=not detected as a concentration exceeding the limit of detection.



**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
3-Apr-17	231	Drum Deck	Main cooling tank	grey	<LOD
3-Apr-17	232	Drum Deck	Retest main cooling tank	grey	<LOD
3-Apr-17	233	Drum Deck	Ladder near cooling tank	black	<LOD
3-Apr-17	234	Drum Deck	Stair rail	yellow	<b>1.40</b>
3-Apr-17	235	Drum Deck	Stair rail	yellow	<LOD
3-Apr-17	236	Drum Deck	HTR drain rail	yellow	<LOD
3-Apr-17	238	Drum Deck	HTR drain rail	yellow	<LOD
3-Apr-17	239	Drum Deck	HTR drain rail	yellow	<LOD
3-Apr-17	240	Drum Deck	CRV 1-21	green	<LOD
3-Apr-17	241	Drum Deck	CRV 1-20	green	<LOD
3-Apr-17	242	Drum Deck	Valve near aerator	green	<LOD
3-Apr-17	243	Drum Deck	Railing	black	<b>1.40</b>
3-Apr-17	244	Drum Deck	Railing	yellow	<LOD
3-Apr-17	245	Drum Deck	Railing	yellow	<LOD
3-Apr-17	246	Drum Deck	Railing	grey	<LOD
3-Apr-17	247	Drum Deck	Unit 2	yellow	<LOD
3-Apr-17	248	Drum Deck	Unit 2	grey	<LOD
3-Apr-17	250	Drum Deck	CRV 2-21	green	<LOD
3-Apr-17	251	Drum Deck	CRV 2-20	green	<LOD
3-Apr-17	252	Drum Deck	ITT Conoflow	green	2#2"
3-Apr-17	253	Drum Deck	Railing around crane	yellow	<b>1.80</b>
3-Apr-17	254	Drum Deck	At Unit 2	grey	<LOD

**Lead-Based Paint**

Ngcf /Eqpic kpi Rc kpv'

**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.

**Italic** denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.

<LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
3-Apr-17	255	Drum Deck	Power box	beige	<LOD
3-Apr-17	256	Drum Deck	Valve	Silver	<LOD
3-Apr-17	257	Drum Deck	CRV	green	<LOD
3-Apr-17	258	Drum Deck	Duct	silver	<LOD
3-Apr-17	260	Drum Deck	Lever box	green	<LOD
3-Apr-17	261	Drum Deck	Duct	grey	<LOD
3-Apr-17	262	Drum Deck	Motor	grey	<LOD
3-Apr-17	263	Drum Deck	Motor shroud	grey	<LOD
3-Apr-17	264	Drum Deck	Pump motor	blue	<LOD
3-Apr-17	265	Drum Deck	Duct	grey	<LOD
3-Apr-17	266	Drum Deck	Metal box	green	<LOD
3-Apr-17	267	Drum Deck	Metal cone	grey	<LOD
3-Apr-17	268	Drum Deck	Structural angle iron	grey	<b>3.20</b>
3-Apr-17	269	Drum Deck	Cooling water tank	grey	<LOD
3-Apr-17	270	Drum Deck	Cooling water tank	grey	<LOD
3-Apr-17	271	Drum Deck	Ladder on top of boiler	grey	<b>5.40</b>
3-Apr-17	272	Drum Deck	Duct	black	<LOD
3-Apr-17	273	Drum Deck	Duct at Unit 2	black	<LOD
3-Apr-17	274	Drum Deck	Railing	black	<b>2.00</b>
3-Apr-17	275	Drum Deck	Railing	yellow	<b>3.20</b>
3-Apr-17	276	Drum Deck	Pipe	yellow	<b>1.60</b>
3-Apr-17	279	Drum Deck	Railing	yellow	<b>3.40</b>

**Lead-Based Paint**

*Ngcf /Eqpic kpi 'Rc kpv'*

**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.

*Kc/rkz* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.

<LOD=not detected as a concentration exceeding the limit of detection.



**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
3-Apr-17	280	Drum Deck	Rubber hose	red	<LOD
3-Apr-17	281	Drum Deck	Boiler cladding	grey	<LOD
3-Apr-17	282	Drum Deck	Regulator cage	green	<LOD
3-Apr-17	283	Drum Deck	Regulator	green	<b>1.20</b>
3-Apr-17	284	Drum Deck	Valve snap action switch	green	<b>1.10</b>
3-Apr-17	285	Drum Deck	Pipe	red	<LOD
3-Apr-17	286	Drum Deck	Switch box	blue	<LOD
3-Apr-17	287	Drum Deck	Switch box	blue	<LOD
3-Apr-17	288	Drum Deck	Switch conduit	blue	<LOD
3-Apr-17	289	Drum Deck	Pipe	grey	<b>1.80</b>
3-Apr-17	290	Drum Deck	Pipe	yellow	<LOD
3-Apr-17	291	Drum Deck	Pipe	yellow	<b>5.90</b>
3-Apr-17	292	Drum Deck	Pipe	yellow	<LOD
3-Apr-17	293	Drum Deck	Pipe	yellow	<LOD
3-Apr-17	294	Drum Deck	Pipe	grey	<b>2.20</b>
3-Apr-17	295	Drum Deck	Box	green	<b>5.40</b>
3-Apr-17	296	Drum Deck	Hose	red	<LOD
3-Apr-17	297	Drum Deck	Conduit hose	grey	<LOD
3-Apr-17	298	Drum Deck	Box	blue	<LOD
3-Apr-17	299	Drum Deck	Box	blue	<LOD
3-Apr-17	300	Drum Deck	Pipe	red	<LOD
3-Apr-17	301	Drum Deck	Pipe	red	<LOD

**Lead-Based Paint**

*Ngcf /Eqpic kpi Rc kpv'*

**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.

*Kc/rkz* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.

<LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
3-Apr-17	302	Drum Deck	Pipe	red	2.50
3-Apr-17	303	Drum Deck	Conduit	blue	<LOD
3-Apr-17	304	Drum Deck	Pipe	grey	2.20
3-Apr-17	305	Drum Deck	Valve	green	2.02"
3-Apr-17	306	Drum Deck	Railing	yellow	4.40
3-Apr-17	307	Drum Deck	Railing	yellow	<LOD
3-Apr-17	308	Drum Deck	G9B 2-1	blue	<LOD
3-Apr-17	309	Drum Deck	Pipe	grey	<LOD
3-Apr-17	310	Drum Deck	Beam at Unit 2	grey	<LOD
3-Apr-17	311	Drum Deck	Tank	grey	<LOD
3-Apr-17	312	Drum Deck	Tank	grey	<LOD
3-Apr-17	313	Drum Deck	Tank	grey	<LOD
3-Apr-17	314	Drum Deck	Angle iron	grey	<LOD
3-Apr-17	315	Drum Deck	Pipe	blue	<LOD
3-Apr-17	316	Drum Deck	Pipe	yellow	4.50
3-Apr-17	317	Drum Deck	Pipe	grey	<LOD
3-Apr-17	318	Drum Deck	Pipe	grey	2.60
3-Apr-17	319	Drum Deck	Pipe	grey	2.80
3-Apr-17	320	Drum Deck	Pipe	grey	<LOD
3-Apr-17	321	Drum Deck	Gauge	green	<LOD
3-Apr-17	322	Drum Deck	Gauge frame	grey	<LOD
3-Apr-17	323	Drum Deck	Tank near condensate	green	<LOD

**Lead-Based Paint**

Ngcf /Eqpic kpi Rc kpv'  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Kc/rk* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.





**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
3-Apr-17	324	Drum Deck	Condensate tank	grey	<LOD
3-Apr-17	325	Drum Deck	Condensate tank	grey	<LOD
3-Apr-17	326	Drum Deck	Pipe	grey	<LOD
3-Apr-17	327	Drum Deck	Pipe	grey	<LOD
3-Apr-17	328	Drum Deck	Pipe	blue	<b>3.50</b>
3-Apr-17	329	Drum Deck	Pipe	yellow	<b>3.50</b>
3-Apr-17	330	Drum Deck	Large pipe	grey	<LOD
3-Apr-17	331	Drum Deck	Medium pipe	grey	<LOD
3-Apr-17	332	Drum Deck	Pipe	beige	<LOD
3-Apr-17	333	Drum Deck	Small Pipe	beige	<b>5.60</b>
3-Apr-17	334	Drum Deck	Pipe	beige	<b>3.70</b>
3-Apr-17	335	Drum Deck	Hopper frame	grey	<LOD
3-Apr-17	336	Drum Deck	Hopper	grey	<LOD
3-Apr-17	337	Drum Deck	Gauge beneath Unit 1	grey	<LOD
3-Apr-17	338	Drum Deck	Seal air pipe	green	<LOD
3-Apr-17	339	Drum Deck	Exhaust duct	grey	<LOD
3-Apr-17	340	Drum Deck	Valve	blue	<LOD
3-Apr-17	341	Drum Deck	Drum	green	<LOD
3-Apr-17	342	Drum Deck	Pipe	green	<LOD
3-Apr-17	343	Drum Deck	Pipe	yellow	<b>4.30</b>
3-Apr-17	344	Drum Deck	Pipe island water	yellow	<LOD
3-Apr-17	345	Drum Deck	Pipe	grey	<b>2.30</b>

**Lead-Based Paint**

*Ngcf /Eqpic kpi Rc kpv'*

**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.

*Kc/rkz* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.

<LOD=not detected as a concentration exceeding the limit of detection.



**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
3-Apr-17	346	Drum Deck	Bigger pipe	grey	<LOD
3-Apr-17	347	Drum Deck	Box	blue	<LOD
3-Apr-17	348	Drum Deck	Pipe	green	<LOD
3-Apr-17	349	Drum Deck	Pipe	yellow	<LOD
3-Apr-17	350	Drum Deck	Pipe	red	<LOD
3-Apr-17	351	Drum Deck	Pipe	red	<b>1.40</b>
3-Apr-17	352	Drum Deck	Pipe	red	<LOD
3-Apr-17	353	Drum Deck	Pipe	yellow	<LOD
3-Apr-17	354	Drum Deck	Pipe	yellow	<b>4.70</b>
3-Apr-17	355	Drum Deck	Pipe	grey	<b>3.30</b>
3-Apr-17	356	Drum Deck	Pipe	yellow	<b>1.30</b>
3-Apr-17	357	Drum Deck	Pipe (near boiler)	yellow	<b>2.60</b>
3-Apr-17	358	Drum Deck	Pipe	yellow	<b>3.50</b>
3-Apr-17	359	Drum Deck	Insulated metal	yellow	<LOD
3-Apr-17	360	Drum Deck	Box	blue	<LOD
3-Apr-17	361	Drum Deck	Box	blue	<LOD
3-Apr-17	362	Drum Deck	Hose	red	<LOD
3-Apr-17	364	Drum Deck	Box	blue	<LOD
3-Apr-17	365	Drum Deck	Hose	red	<LOD
3-Apr-17	366	Drum Deck	Box	blue	<LOD
3-Apr-17	367	Drum Deck	Boiler	grey	<LOD
3-Apr-17	368	Drum Deck	Boiler	grey	<LOD

**Lead-Based Paint**

*Ngcf /Eqpic kpi Rc kpv*

**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.

*Kc/rk* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.

<LOD=not detected as a concentration exceeding the limit of detection.





J c / c t f q w i / O c n g t k e n u / U m t x g l / F c v e / T g r q t v l q t / V c p i w k u a q p / R q y g t / R t c p v /

**TABLE 2. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE TANGUISSON POWER PLANT**

Date	Shot No.	Location	Description	Paint Color	Analytical Results (mg/cm <sup>2</sup> )
3-Apr-17	370	Drum Deck	Barton box	green	<LOD
3-Apr-17	371	Drum Deck	Frame	black	<LOD
3-Apr-17	372	Drum Deck	Retest (snap switch)	green	<b>1.20</b>
3-Apr-17	373	Drum Deck	Box power	blue	<LOD
3-Apr-17	374	Drum Deck	Hoist main switch	grey	<LOD
3-Apr-17	376	Drum Deck	Fire alarm (local)	red	2Ø2"
3-Apr-17	377	Drum Deck	M-1 fire alarm	red	<LOD
3-Apr-17	378	Drum Deck	Oil stinger holder (Unit 1)	black	<LOD
3-Apr-17	379	Drum Deck	Oil stinger holder	grey	<LOD
6-Apr-17	674	Warehouse	Wall	white	<LOD
6-Apr-17	675	Warehouse	Sliding door	green	<LOD
6-Apr-17	676	Warehouse	Wall (back)	white	<LOD
6-Apr-17	677	Warehouse	Wall	white	<LOD
6-Apr-17	678	Warehouse	Wall	white	<LOD

**Lead-Based Paint**  
*Ngcf / Eqpv: / p / p i / R c / p v /*  
**Bold** denotes lead concentrations greater than 1.0 mg/cm<sup>2</sup>.  
*Rc / R c u* denotes lead concentrations less than 1.0 mg/cm<sup>2</sup>.  
 <LOD=not detected as a concentration exceeding the limit of detection.





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J c/ctf qwu'Ocvgtknu'Uwtxgl'Fcxw'Tgrqtvlqt'Vcpi wkuuqp'Rqy gt'Rrcpv"

**TABLE 3. SUMMARY OF PCB-CONTAINING MATERIALS AT THE TANGUISSON POWER PLANT**

Location	Contents	Quantity
Basement	Ballast	53
Control Room	Ballast	13
Drum Deck	Ballast	8
Ground Floor	Ballast	78
Air Preheater Platform Floor	Ballast	10
Operating Floor	Ballast	15



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*J c/ctf qwi'Ocvgtknu'Uwtxgf'Fcx'Tgrqtv'lt'Vcpi wkuup'Rgy gt'Rrcpv'*

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**TABLE 4 SUMMARY OF PCB WIPE RESULTS**

Analyte	Analytical Method	CASRN	Units	Cleanup Level <sup>1</sup>	TTP-W001		TTP-W002		TTP-W003		TTP-W004		TTP-W005	
					Sample Date	Lab Report ID	Sample Date	Lab Report ID	Sample Date	Lab Report ID	Sample Date	Lab Report ID	Sample Date	Lab Report ID
<b>Polychlorinated biphenyls (PCBs)</b>														
Atroclor-1016	SW8082	12674-11-2	µg/100 cm <sup>2</sup>	NS	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U
Atroclor-1221	SW8082	11104-28-2	µg/100 cm <sup>2</sup>	NS	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U
Atroclor-1232	SW8082	11141-16-5	µg/100 cm <sup>2</sup>	NS	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Atroclor-1242	SW8082	53469-21-9	µg/100 cm <sup>2</sup>	NS	0.74	U	0.74	U	0.74	U	0.74	U	0.74	U
Atroclor-1248	SW8082	12672-29-6	µg/100 cm <sup>2</sup>	NS	0.64	U	0.64	U	0.64	U	0.64	U	0.64	U
Atroclor-1254	SW8082	11097-69-1	µg/100 cm <sup>2</sup>	NS	0.63	U	0.63	U	0.63	U	0.63	U	0.63	U
Atroclor-1260	SW8082	11096-82-5	µg/100 cm <sup>2</sup>	NS	0.61	U	0.61	U	0.61	U	0.61	U	0.61	U
Atroclor-1262	SW8082	37324-23-5	µg/100 cm <sup>2</sup>	NS	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U
Atroclor-1268	SW8082	11100-14-4	µg/100 cm <sup>2</sup>	NS	0.67	U	0.67	U	0.67	U	0.67	U	0.67	U
Total PCBs	SW8082	1336-36-3	µg/100 cm <sup>2</sup>	10	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U

Notes:

**Results shown in bold and highlighted blue equal or exceed the screening criteria.**

<sup>1</sup> Cleanup level presented in 40 Code of Federal Regulations, Part 761.125 for all indoor, residential surfaces other than vault areas.

CASRN = Chemical Abstracts Service Registry Number

µg/100 cm<sup>2</sup> = micrograms per 100 square centimeters

Q = qualifier

Data Qualifiers:

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the limit of detection.





J c | c t f q w i / O c i g t k c m / U m x g l / F c v e / T g r q t v l q t / V c p i w k u a q p / R q y g t / R i c p v /

**TABLE 4 SUMMARY OF PCB WIPE RESULTS**

Analyte	Analytical Method	CASRN	Units	Sample Identifier		TTP-W006	TTP-W007	TTP-W008	TTP-W009	TTP-W010
				Sample Date	Lab Report ID					
				Cleanup Level <sup>1</sup>	Results	Q	Results	Q	Results	Q
<b>Polychlorinated biphenyls (PCBs)</b>										
Aroclor-1016	SW8082	12674-11-2	µg/100 cm <sup>2</sup>	NS	0.42	U	0.42	U	0.42	U
Aroclor-1221	SW8082	11104-28-2	µg/100 cm <sup>2</sup>	NS	0.85	U	0.85	U	0.85	U
Aroclor-1232	SW8082	11141-16-5	µg/100 cm <sup>2</sup>	NS	0.50	U	0.50	U	0.50	U
Aroclor-1242	SW8082	53469-21-9	µg/100 cm <sup>2</sup>	NS	0.74	U	0.74	U	0.74	U
Aroclor-1248	SW8082	12672-29-6	µg/100 cm <sup>2</sup>	NS	0.64	U	5.7	U	0.64	U
Aroclor-1254	SW8082	11097-69-1	µg/100 cm <sup>2</sup>	NS	0.63	U	0.63	U	0.63	U
Aroclor-1260	SW8082	11096-82-5	µg/100 cm <sup>2</sup>	NS	0.61	U	0.61	U	0.61	U
Aroclor-1262	SW8082	37324-23-5	µg/100 cm <sup>2</sup>	NS	0.69	U	0.69	U	0.69	U
Aroclor-1268	SW8082	11100-14-4	µg/100 cm <sup>2</sup>	NS	0.67	U	0.67	U	0.67	U
Total PCBs	SW8082	1336-36-3	µg/100 cm <sup>2</sup>	10	0.85	U	5.7	U	0.85	U

Notes:

**Results shown in bold and highlighted blue equal or exceed the screening criteria.**

<sup>1</sup> Cleanup level presented in 40 Code of Federal Regulations, Part 761.125 for all indoor, residential surfaces other than vault areas.

CASRN = Chemical Abstracts Service Registry Number

µg/100 cm<sup>2</sup> = micrograms per 100 square centimeters

Q = qualifier

Data Qualifiers:

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the limit of detection.





J c / c t f q w i / O c i g t k c m / U m t x g l / F c v e / T g r q t v l q t / V c p i w k u a q p / R q y g t / R t c p v ' "

**TABLE 4 SUMMARY OF PCB WIPE RESULTS**

Analyte	Analytical Method	CASRN	Units	Sample Identifier		TTP-W011		TTP-W012		TTP-W013		TTP-W014	
				Sample Date	Lab Report ID	Cleanu p Level <sup>1</sup>	Results	Q	Results	Q	Results	Q	Results
<b>Polychlorinated biphenyls (PCBs)</b>													
Aroclor-1016	SW8082	12674-11-2	µg/100 cm <sup>2</sup>	NS	17-06-0746-11-A	6-Jun-2017	0.42	U	17-06-0746-11-A	6-Jun-2017	0.42	U	17-06-0746-14-A
Aroclor-1221	SW8082	11104-28-2	µg/100 cm <sup>2</sup>	NS	17-06-0746-11-A	6-Jun-2017	0.85	U	17-06-0746-11-A	6-Jun-2017	0.85	U	17-06-0746-14-A
Aroclor-1232	SW8082	11141-16-5	µg/100 cm <sup>2</sup>	NS	17-06-0746-11-A	6-Jun-2017	0.50	U	17-06-0746-11-A	6-Jun-2017	0.50	U	17-06-0746-14-A
Aroclor-1242	SW8082	53469-21-9	µg/100 cm <sup>2</sup>	NS	17-06-0746-11-A	6-Jun-2017	0.74	U	17-06-0746-11-A	6-Jun-2017	0.74	U	17-06-0746-14-A
Aroclor-1248	SW8082	12672-29-6	µg/100 cm <sup>2</sup>	NS	17-06-0746-11-A	6-Jun-2017	0.64	U	17-06-0746-11-A	6-Jun-2017	0.64	U	17-06-0746-14-A
Aroclor-1254	SW8082	11097-69-1	µg/100 cm <sup>2</sup>	NS	17-06-0746-11-A	6-Jun-2017	0.63	U	17-06-0746-11-A	6-Jun-2017	0.63	U	17-06-0746-14-A
Aroclor-1260	SW8082	11096-82-5	µg/100 cm <sup>2</sup>	NS	17-06-0746-11-A	6-Jun-2017	0.61	U	17-06-0746-11-A	6-Jun-2017	0.61	U	17-06-0746-14-A
Aroclor-1262	SW8082	37324-23-5	µg/100 cm <sup>2</sup>	NS	17-06-0746-11-A	6-Jun-2017	0.69	U	17-06-0746-11-A	6-Jun-2017	0.69	U	17-06-0746-14-A
Aroclor-1268	SW8082	11100-14-4	µg/100 cm <sup>2</sup>	NS	17-06-0746-11-A	6-Jun-2017	0.67	U	17-06-0746-11-A	6-Jun-2017	0.67	U	17-06-0746-14-A
Total PCBs	SW8082	1336-36-3	µg/100 cm <sup>2</sup>	10	17-06-0746-11-A	6-Jun-2017	0.85	U	17-06-0746-11-A	6-Jun-2017	0.85	U	17-06-0746-14-A

Notes:

**Results shown in bold and highlighted blue equal or exceed the screening criteria.**

<sup>1</sup> Cleanup level presented in 40 Code of Federal Regulations, Part 761.125 for all indoor, residential surfaces other than vault areas.

CASRN = Chemical Abstracts Service Registry Number  
µg/100 cm<sup>2</sup> = micrograms per 100 square centimeters

Q = qualifier

Data Qualifiers:

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the limit of detection.







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TABLE 5. SUMMARY OF PCB SOIL RESULTS

Analyte	Analytical Method	CASRN	Units	TPESLs <sup>1</sup>	TP-S001		TP-S002		TP-S003		TP-S004		TP-S005		TP-S006	
					Sample Date	Lab Report ID	Sample Date	Lab Report ID	Sample Date	Lab Report ID	Sample Date	Lab Report ID	Sample Date	Lab Report ID	Sample Date	Lab Report ID
					Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
<b>Polychlorinated biphenyls (PCBs)</b>																
Atroclor-1016	SW8082	12674-11-2	mg/kg	NS	0.21	U	0.021	U	0.021	U	0.021	U	0.021	U	0.021	U
Atroclor-1221	SW8082	11104-28-2	mg/kg	NS	0.42	U	0.042	U	0.042	U	0.042	U	0.042	U	0.042	U
Atroclor-1232	SW8082	11141-16-5	mg/kg	NS	0.25	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U
Atroclor-1242	SW8082	53469-21-9	mg/kg	NS	0.37	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
Atroclor-1248	SW8082	12672-29-6	mg/kg	NS	0.32	U	0.032	U	0.032	U	0.032	U	0.032	U	0.032	U
Atroclor-1254	SW8082	11097-69-1	mg/kg	NS	2.2	U	0.032	U	0.093		0.042	J	0.032	U	0.032	U
Atroclor-1260	SW8082	11096-82-5	mg/kg	NS	1.7		0.64		0.28		0.16		0.37		0.054	
Atroclor-1262	SW8082	37324-23-5	mg/kg	NS	0.35	U	0.035	U	0.034	U	0.035	U	0.035	U	0.035	U
Atroclor-1268	SW8082	11100-14-4	mg/kg	NS	0.33	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U
Total PCBs	SW8082	1336-36-3	mg/kg	9.8	3.9		0.64		0.37		0.20		0.37		0.054	

Notes:

**Results shown in bold and highlighted blue equal or exceed the screening criteria.**

<sup>1</sup> TPESLs - Tropical Pacific Environmental Screening Levels for shallow soils (<3 meters below ground surface) where groundwater IS NOT a current or potential source of drinking water, commercial/industrial land use only (updated December 2016) from Table B.

CASRN = Chemical Abstracts Service Registry Number

mg/kg = milligram(s) per kilogram

Q = qualifier

Data Qualifiers:

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the detection limit





**TABLE 5. SUMMARY OF PCB SOIL RESULTS**

Analyte	Analytical Method	CASRN	Units	TPESLs <sup>1</sup>	TP-S007		TP-S008		TP-S009		TP-S010		TP-S011	
					Sample Date	Lab Report ID	Sample Date	Lab Report ID	Sample Date	Lab Report ID	Sample Date	Lab Report ID	Sample Date	Lab Report ID
<b>Polychlorinated biphenyls (PCBs)</b>														
Atroclor-1016	SW8082	12674-11-2	mg/kg	NS	0.021	U	0.021	U	0.021	U	0.021	U	0.021	U
Atroclor-1221	SW8082	11104-28-2	mg/kg	NS	0.042	U	0.042	U	0.042	U	0.042	U	0.042	U
Atroclor-1232	SW8082	11141-16-5	mg/kg	NS	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U
Atroclor-1242	SW8082	53469-21-9	mg/kg	NS	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
Atroclor-1248	SW8082	12672-29-6	mg/kg	NS	0.032	U	0.032	U	0.032	U	0.032	U	0.032	U
Atroclor-1254	SW8082	11097-69-1	mg/kg	NS	0.032	U	0.032	U	0.032	U	0.031	U	0.032	U
Atroclor-1260	SW8082	11096-82-5	mg/kg	NS	0.17		0.030	U	0.036	J	0.030	U	0.52	
Atroclor-1262	SW8082	37324-23-5	mg/kg	NS	0.035	U	0.035	U	0.035	U	0.034	U	0.035	U
Atroclor-1268	SW8082	11100-14-4	mg/kg	NS	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U
Total PCBs	SW8082	1336-36-3	mg/kg	9.8	0.17		0.042	U	0.036	J	0.042	U	0.52	

Notes:

**Results shown in bold and highlighted blue equal or exceed the screening criteria.**

<sup>1</sup> TPESLs - Tropical Pacific Environmental Screening Levels for shallow soils (<3 meters below ground surface) where groundwater IS NOT a current or potential source of drinking water, commercial/industrial land use only (updated December 2016) from Table B.

CASRN = Chemical Abstracts Service Registry Number

mg/kg = milligram(s) per kilogram

Q = qualifier

Data Qualifiers:

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the detection limit

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**TABLE 6. SUMMARY OF MERCURY-CONTAINING SOURCES AT THE TANGUISSON POWER PLANT**

Location	Description	Quantity
Air Preheater Platform Floor	Fluorescent Tube (2ft.)	2
Air Preheater Platform Floor	Fluorescent Tube (4ft.)	20
Air Preheater Platform Floor	Fluorescent Tube (8ft.)	48
Basement	Fluorescent Tube (4ft.)	110
Basement	Fluorescent Tube (8ft.)	110
Basement: Tool Room	Fluorescent Tube (8ft.)	23
Control Room	Fluorescent Tube (2ft., U Shaped)	6
Control Room	Fluorescent Tube (4ft.)	48
Drum Deck	Fluorescent Tube (4ft.)	16
Drum Deck	Fluorescent Tube (8ft.)	52
Drum Deck	High Intensity Discharge Light Bulb	46
Exterior	Fluorescent Tube (8ft.)	7
Ground Floor	Fluorescent Tube (4ft.)	206
Ground Floor	Fluorescent Tube (8ft.)	120
Operating Floor	Fluorescent Tube (4ft.)	31
Operating Floor	Fluorescent Tube (8ft.)	112
Warehouse: Tool Room	Fluorescent Tube (8ft.)	32



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**TABLE 7. SUMMARY OF CONTAINERIZED HAZARDOUS SUBSTANCES/REGULATED MATERIALS AT THE TANGUISSON POWER PLANT**

Location	Contents	Quantity	Units
Basement	CO2 tank (50 lb)	6	ea
Basement	DTE Oil Light	55	gal
Basement	Fire Extinguisher (10 lb.)	1	ea
Basement	Fire Extinguisher (20 lb.)	2	ea
Basement	Fire Extinguisher (30 lb.)	1	ea
Basement	High performance enamel	1	gal
Basement: Chemical Lab	2 Calcium indicator (100 pillows/bag)	1	bag
Basement: Chemical Lab	2 Hardness indicator (100 pillows/bag)	1	bag
Basement: Chemical Lab	Acid molybdate	5.5	L
Basement: Chemical Lab	Amino Acid	6	pouch
Basement: Chemical Lab	Amino Acid Indicator (100 pillows/bag)	2	bag
Basement: Chemical Lab	Amino acid reagent	100	ml
Basement: Chemical Lab	Amino powder mixture	3008	g
Basement: Chemical Lab	Ammonium Hydroxide	1	gal
Basement: Chemical Lab	B indicator	1	L
Basement: Chemical Lab	Barium Chloride	4	gal
Basement: Chemical Lab	Bromocresol green, methyl red (100 pillows/bag)	25	bag
Basement: Chemical Lab	Bromophenol blue indicator (100 pillows/bag)	1	bag
Basement: Chemical Lab	Calcium indicator (100 pillows/bag)	2	bag
Basement: Chemical Lab	Chloride 2 indicator	15	pillow
Basement: Chemical Lab	Chloride reference standard	2000	ml
Basement: Chemical Lab	Citric Acid	200	ml

Notes:  
 ml= milliliter      ea=each      g=grams      gal=gallons      L=liters      oz=ounces      qt=quarts





**TABLE 7. SUMMARY OF CONTAINERIZED HAZARDOUS SUBSTANCES/REGULATED MATERIALS AT THE TANGUISSON POWER PLANT**

Location	Contents	Quantity	Units
Basement: Chemical Lab	Citric acid	250	g
Basement: Chemical Lab	Citric Acid (100 pillows/bag)	1	bag
Basement: Chemical Lab	Citric Acid indicator (100 pillows/bag)	6	bag
Basement: Chemical Lab	Citric acid (100 pillows/bag)	1	bag
Basement: Chemical Lab	Conductivity neutralizing solution	996.35	ml
Basement: Chemical Lab	Conductivity standard	32	oz
Basement: Chemical Lab	Copper Reagent (100 pillows/bag)	2	bag
Basement: Chemical Lab	Copper Standard	400	ml
Basement: Chemical Lab	DO 1 reagent (100 pillows/bag)	1	bag
Basement: Chemical Lab	DO 3 reagent pillow	50	pillow
Basement: Chemical Lab	DPP Free Chlorine (100 pillows/bag)	28	bag
Basement: Chemical Lab	EDTA	3.54	gal
Basement: Chemical Lab	Gallic acid	50	ml
Basement: Chemical Lab	H2SO4	4.39	L
Basement: Chemical Lab	H2SO4 Standard	3.81	L
Basement: Chemical Lab	H2SO4 w/ H2O	1.2	L
Basement: Chemical Lab	Hach Chloride 2 indicator (100 pillows/bag)	35	bag
Basement: Chemical Lab	Hardness indicator 2	200	ml
Basement: Chemical Lab	Holmium trichloride (100 pillows/bag)	6	bag
Basement: Chemical Lab	Iron Reagent (100 pillows/bag)	4	bag
Basement: Chemical Lab	Isopropyl alcohol	200	ml
Basement: Chemical Lab	KCl	500	ml

Notes:  
 ml= milliliter      ea=each      g=grams      gal=gallons      L=liters      oz=ounces      qt=quarts





**TABLE 7. SUMMARY OF CONTAINERIZED HAZARDOUS SUBSTANCES/REGULATED MATERIALS AT THE TANGUISSON POWER PLANT**

Location	Contents	Quantity	Units
Basement: Chemical Lab	KOH	100	ml
Basement: Chemical Lab	M indicator	1	L
Basement: Chemical Lab	M7106 buffer	500	ml
Basement: Chemical Lab	Molybdate reagent	900	ml
Basement: Chemical Lab	Molybdenum reagent (100 pillows/bag)	6	bag
Basement: Chemical Lab	Monoethanolamine	500	ml
Basement: Chemical Lab	NaCl	400	ml
Basement: Chemical Lab	Nalco SO617A-Si-3	500	g
Basement: Chemical Lab	Nitrile pillow bags (100 pillows/bag)	3 bags	bag
Basement: Chemical Lab	pH 10 Hach pillows	20	pillow
Basement: Chemical Lab	pH Singles - pH 10	8	pouch
Basement: Chemical Lab	pH 4 buffer	50	ml
Basement: Chemical Lab	Hach pH 4	25	pillow
Basement: Chemical Lab	pH 7 buffer	100	ml
Basement: Chemical Lab	Hach pH 7	15	pillow
Basement: Chemical Lab	pH Singles - pH 7	7	pouch
Basement: Chemical Lab	Phenolphthalein Indicator	2.51	L
Basement: Chemical Lab	Phosphate Standard (100 pillows/bag)	30	bag
Basement: Chemical Lab	Phosphate Standard	3	L
Basement: Chemical Lab	Photometer molybdate	9.5	gal
Basement: Chemical Lab	POC-2	50	ml
Basement: Chemical Lab	Potassium hydroxide	50	ml

Notes:  
 ml= milliliter      ea=each      g=grams      gal=gallons      L=liters      oz=ounces      qt=quarts







**TABLE 7. SUMMARY OF CONTAINERIZED HAZARDOUS SUBSTANCES/REGULATED MATERIALS AT THE TANGUISSON POWER PLANT**

Location	Contents	Quantity	Units
Basement: Chemical Lab	Potassium iodide/iodate	600	ml
Basement: Chemical Lab	Si-1: ammonium molybdate	750	g
Basement: Chemical Lab	Silica Standard	450	ml
Basement: Chemical Lab	Silver nitrate	17.28	L
Basement: Chemical Lab	Sodium bisulfite, sodium sulfate	250	g
Basement: Chemical Lab	Sodium chloride	2.1	L
Basement: Chemical Lab	Sodium molybdate (100 pillows/bag)	1	bag
Basement: Chemical Lab	SPA/DNS reagent for fluoride	200	ml
Basement: Chemical Lab	Starch acid / sulfite indicator powder	40	oz
Basement: Chemical Lab	Starch acid indicator powder	1	tube
Basement: Chemical Lab	TDS singles pouch	40	pouch
Basement: Chemical Lab	Titration solution harness 3	300	ml
Basement: Chemical Lab	XP-2	1200	g
Basement: Tool Room	30W oil	1	qt
Basement: Tool Room	Acidic toilet cleaner	1	gal
Basement: Tool Room	Battery fluid acid	10	gal
Basement: Tool Room	Castale refractory (50 lb/bag)	360	bag
Basement: Tool Room	Clover fluid abrasive	16	oz
Basement: Tool Room	CO2 Tank (50 lb)	6	ea
Basement: Tool Room	Concrete floor paint	1	gal
Basement: Tool Room	Concrete primer	1	gal
Basement: Tool Room	Floor finish sealer	2	gal
Notes:			
ml= milliliter	ea=each	g=grams	gal=gallons
		L=liters	oz=ounces
			qt=quarts





**TABLE 7. SUMMARY OF CONTAINERIZED HAZARDOUS SUBSTANCES/REGULATED MATERIALS AT THE TANGUISSON POWER PLANT**

Location	Contents	Quantity	Units
Basement: Tool Room	Mobil synthetic bearing gear oil	12.5	gal
Basement: Tool Room	Red Paint	0.5	gal
Basement: Tool Room	Silicone Transformer Fluid	55	gal
Basement: Tool Room	Splastone compound finishing (1 yellow, 1 black)	2	gal
Basement: Tool Room	Testrasol 2000	36	gal
Basement: Tool Room	Yellow safety cover latex paint	0.5	gal
Exterior	CO2 tanks	57	ea
Exterior	Fire Extinguisher (30 lbs.)	2	ea
Exterior	Large Residual fuel oil storage tank	2	ea
Exterior	Light oil storage diesel tank	2	ea
Exterior	Mobil Heavy Medium Oil	55	gal
Exterior	O2 Tank (50 lbs.)	1	ea
Exterior	Used Oil Cylinder	1	ea
Ground Floor	CO2 (100 lb)	20	ea
Ground Floor	CO2 (50 lb)	10	ea
Ground Floor	Fire Extinguisher (20 lb.)	7	ea
Ground Floor	Nitrogen Tank (50 lb.)	20	ea
Ground Floor	Paint	3	gal
Ground Floor	SD13 240 Ah	60	ea
Operating Floor	CO2 Tank (50 lbs.)	9	ea
Operating Floor	Fire Extinguisher (30 lbs.)	18	ea
Operating Floor	Nitrogen Tank (50 lb.)	2	ea

Notes:  
 ml= milliliter      ea=each      g=grams      gal=gallons      L=liters      oz=ounces      qt=quarts





**TABLE 7. SUMMARY OF CONTAINERIZED HAZARDOUS SUBSTANCES/REGULATED MATERIALS AT THE TANGUISSON POWER PLANT**

Location	Contents	Quantity	Units
Operating Floor	SD13 240 Ah battery (Battery acid on floor)	59	ea
Operating Floor	Ultra 23 High Gloss floor finish (1 gal)	1	ea
Warehouse: Mechanic Room	Air tool oil (1 gal)	1	ea
Warehouse: Mechanic Room	Ultra 23 highfloor gloss (2 gal)	1	ea
Warehouse: Mechanic Room	Fire Extinguisher (30 lbs.)	2	ea
Warehouse: Mechanic Room	Pulsa Lube - hydraulic fluid (1 L)	1	ea
Warehouse: Tool Room	Pulsa Lube - hydraulic fluid (1 L)	14	ea
Warehouse: Tool Room	86 Oil (200 mL)	34	ea
Warehouse: Tool Room	Hydraulic Oil	1	qt
Warehouse: Tool Room	Compressed O <sub>2</sub> (5 lb)	1	ea
Warehouse: Tool Room	Insulating cement (50 lb)	100	ea
Warehouse: Tool Room	Refractory cement (60 lb)	117	ea
Warehouse: Tool Room	Brown aluminum oxide (5 lb)	5	ea
Warehouse: Tool Room	Impact beads (50 lb)	10	ea
Warehouse: Tool Room	Activated charcoal (100 lb)	3	ea
Warehouse: Tool Room	Fibrous adhesive (5 gal)	2	ea
Warehouse: Tool Room	House and trim paint (5 gal)	1	ea
Warehouse: Tool Room	Coolant embitterment (1 gal)	1	ea
Warehouse: Tool Room	Fire Extinguisher (30 lbs.)	4	ea

Notes:  
 ml= milliliter    ea=each    g=grams    gal=gallons    L=liters    oz=ounces    qt=quarts





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## FIGURES



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Site Locations
   
 Fenceline
   
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Source: Esri, DigitalGlobe, GeoEye, I-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

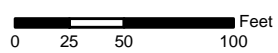


Figure 1  
Site Location  
Tanguisson Power Plant

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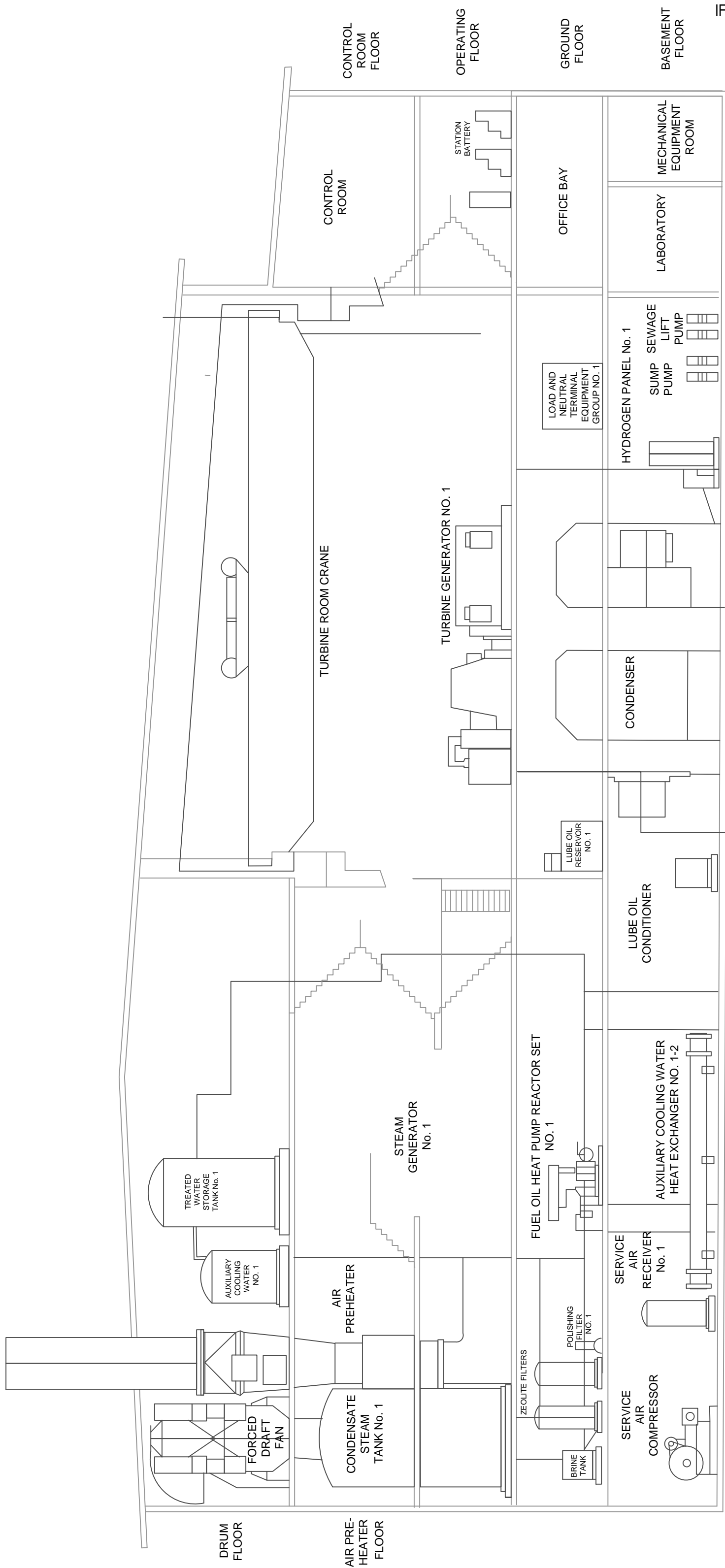


Figure 2

Tanguisson Power Plant: Cross Section  
HAZMAT Survey



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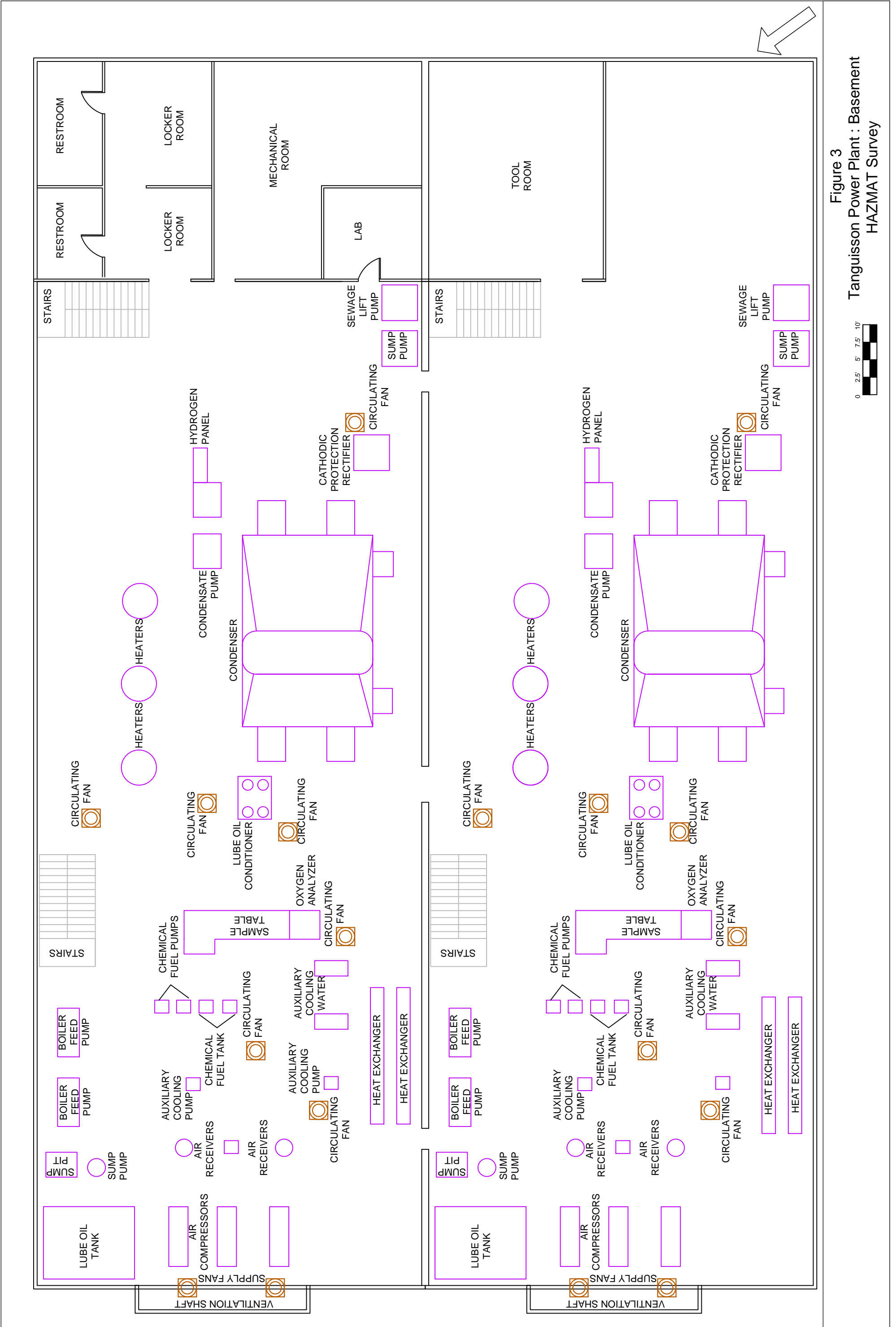


Figure 3  
Tanguisson Power Plant : Basement  
HAZMAT Survey

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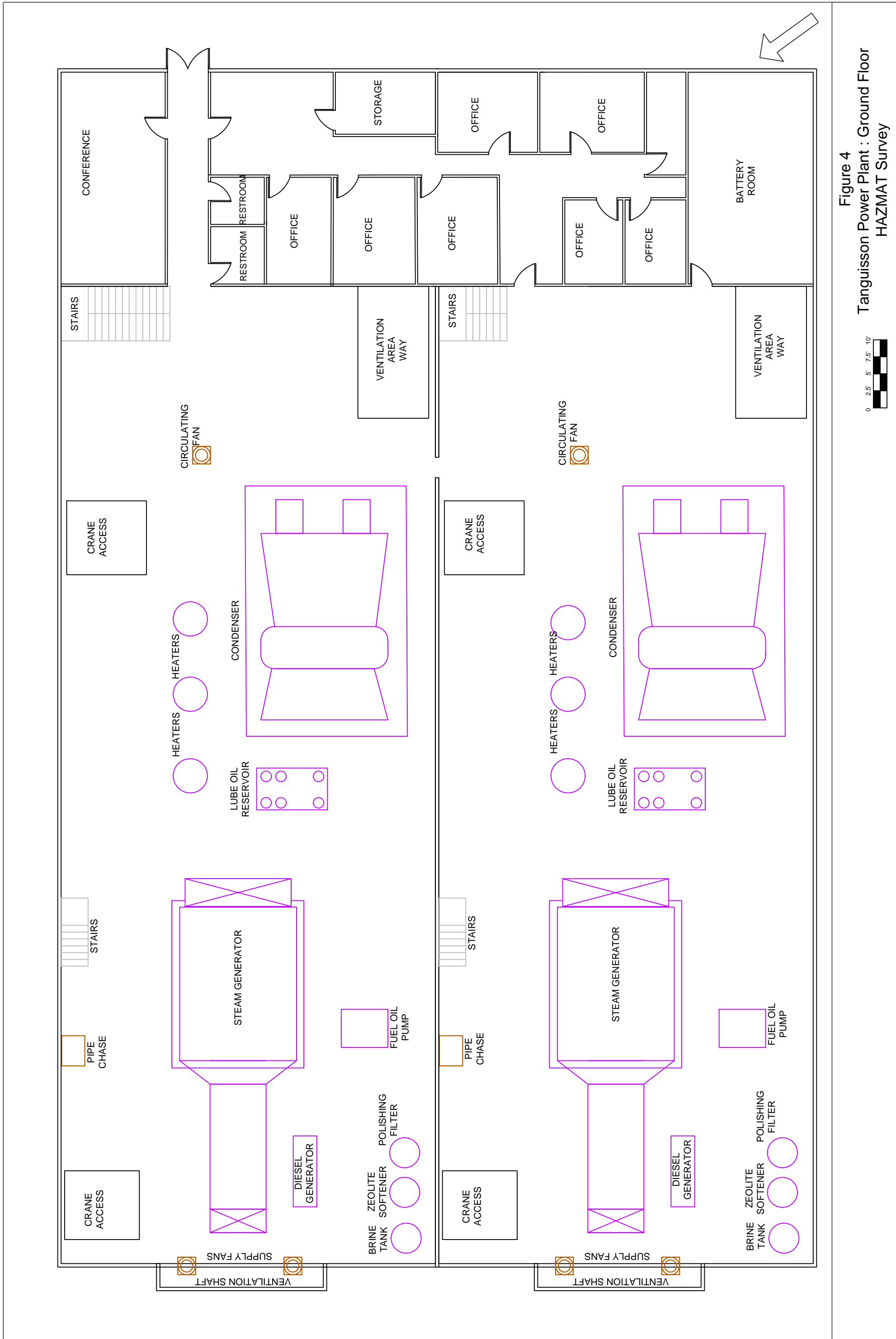


Figure 4  
Tanguisson Power Plant : Ground Floor  
HAZMAT Survey

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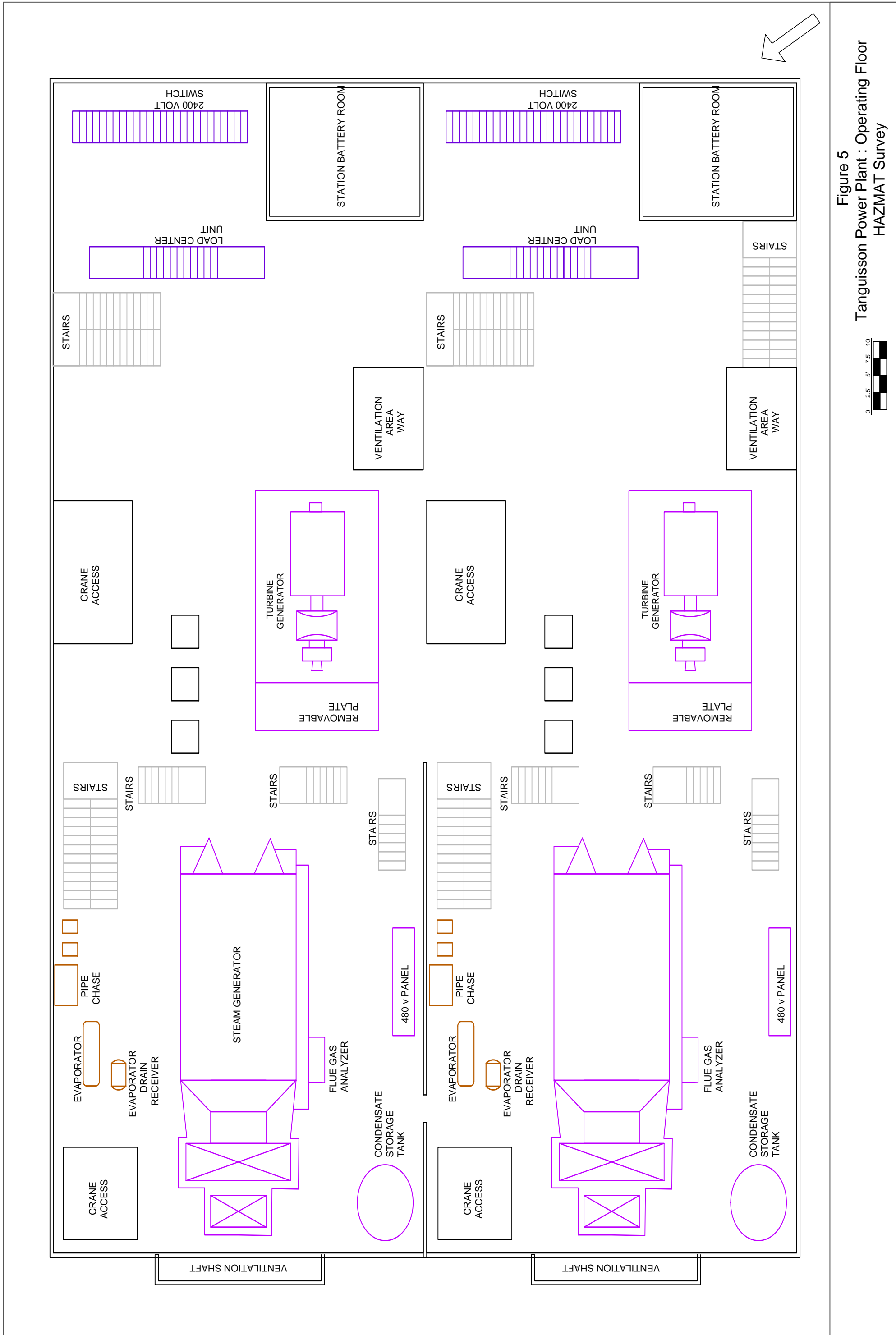
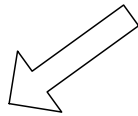
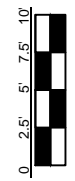


Figure 5  
Tanguisson Power Plant : Operating Floor  
HAZMAT Survey



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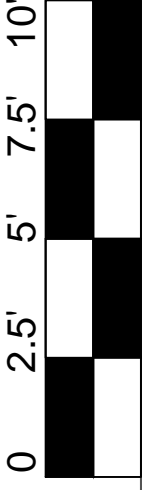
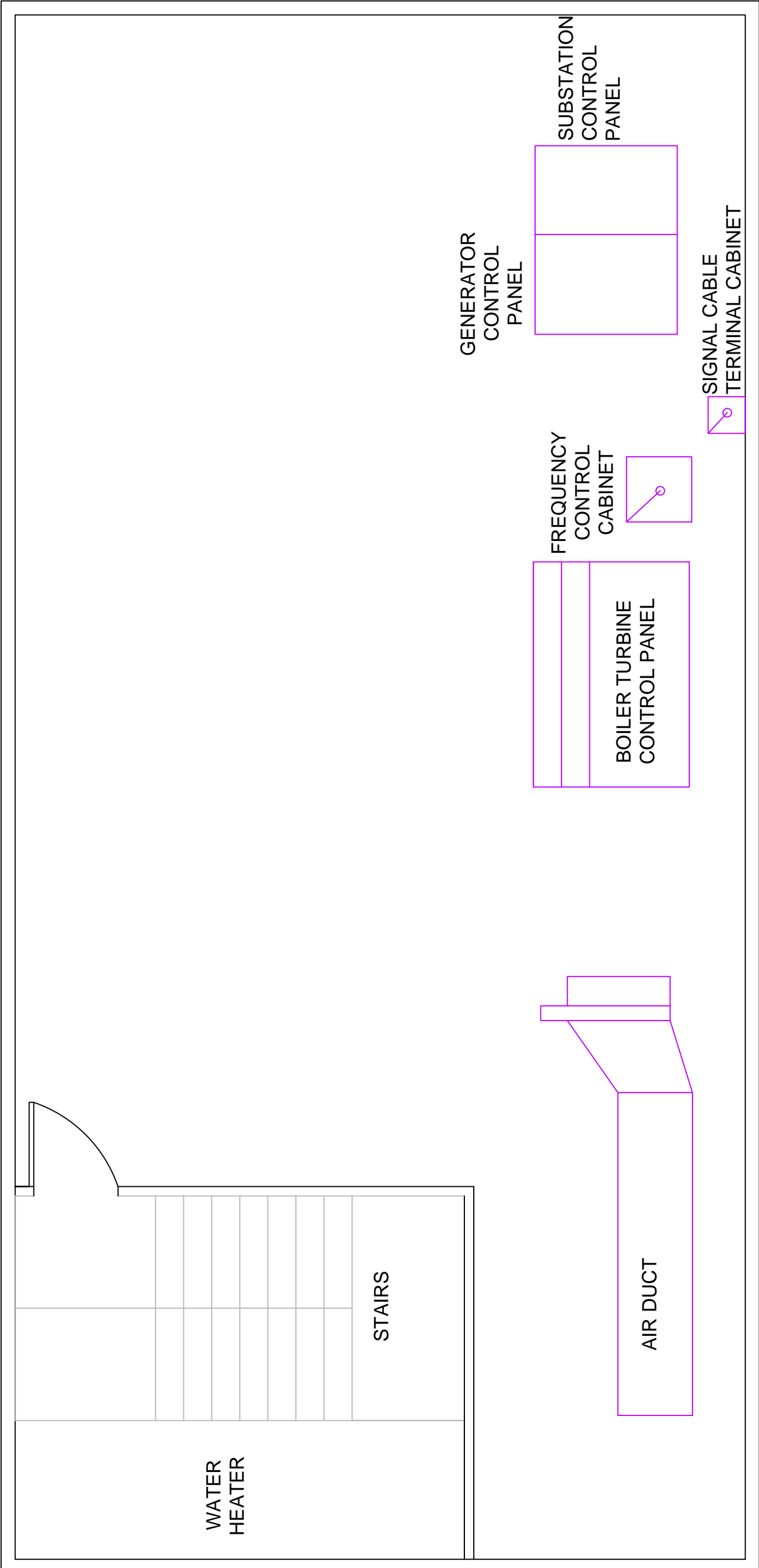


Figure 6  
Tanguisson Power Plant : Control Room  
HAZMAT Survey



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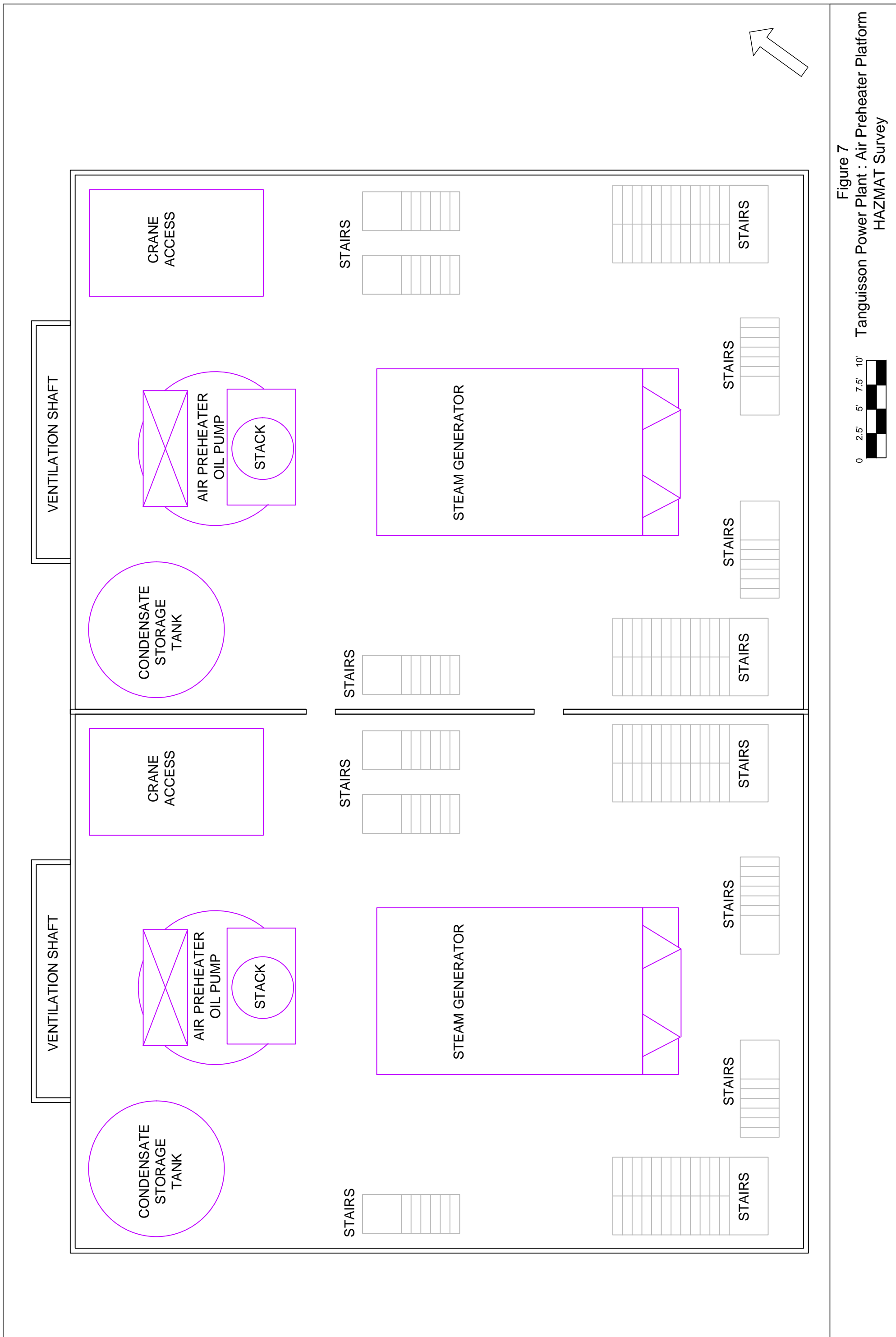
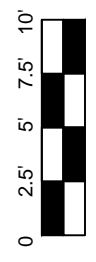


Figure 7  
Tanguisson Power Plant : Air Preheater Platform  
HAZMAT Survey



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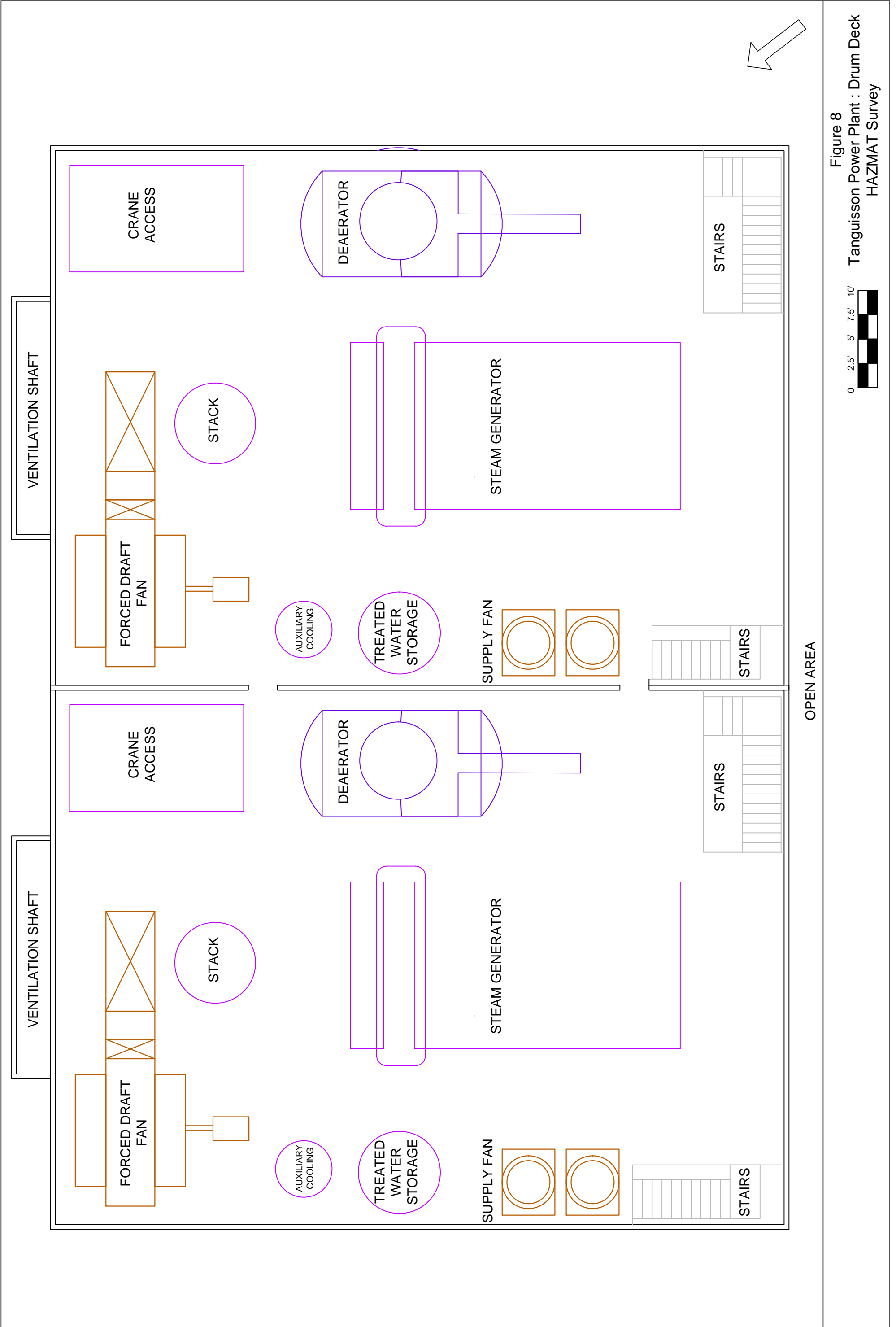


Figure 8  
Tanguisson Power Plant : Drum Deck  
HAZMAT Survey

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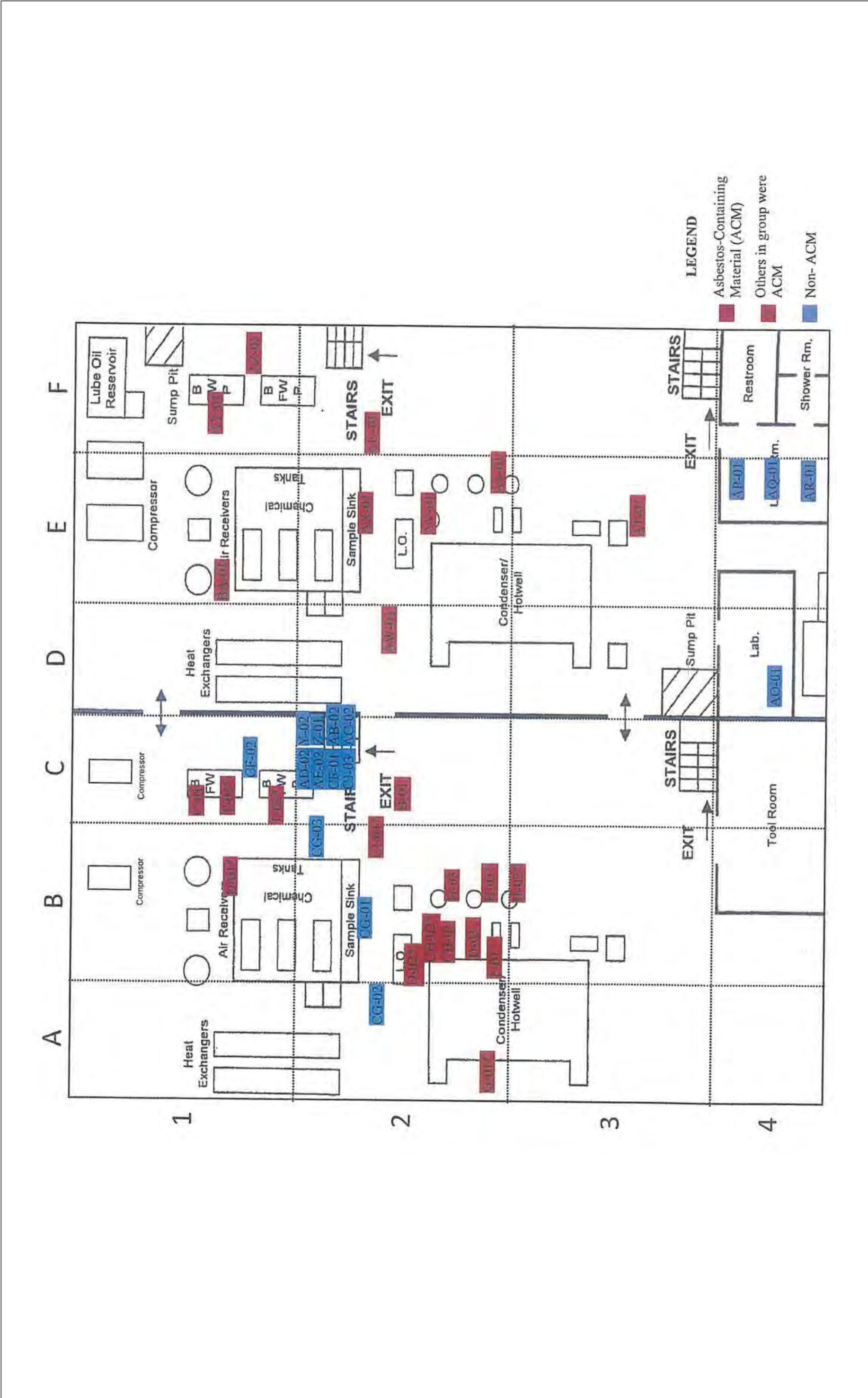


Figure 9  
BASEMENT ACM SURVEY  
HAZMAT Survey

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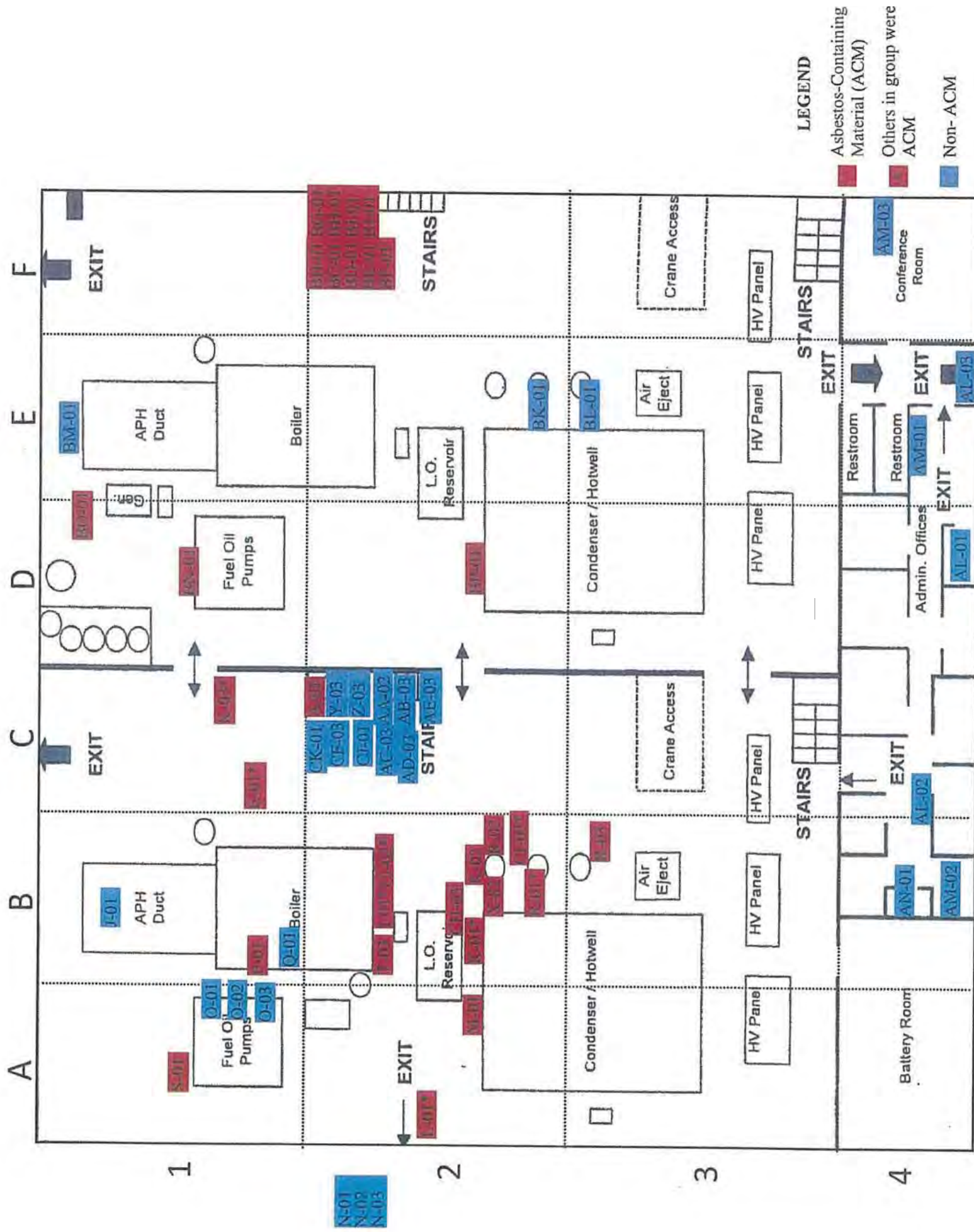


Figure 10  
GROUND FLOOR ACM SURVEY  
HAZMAT Survey



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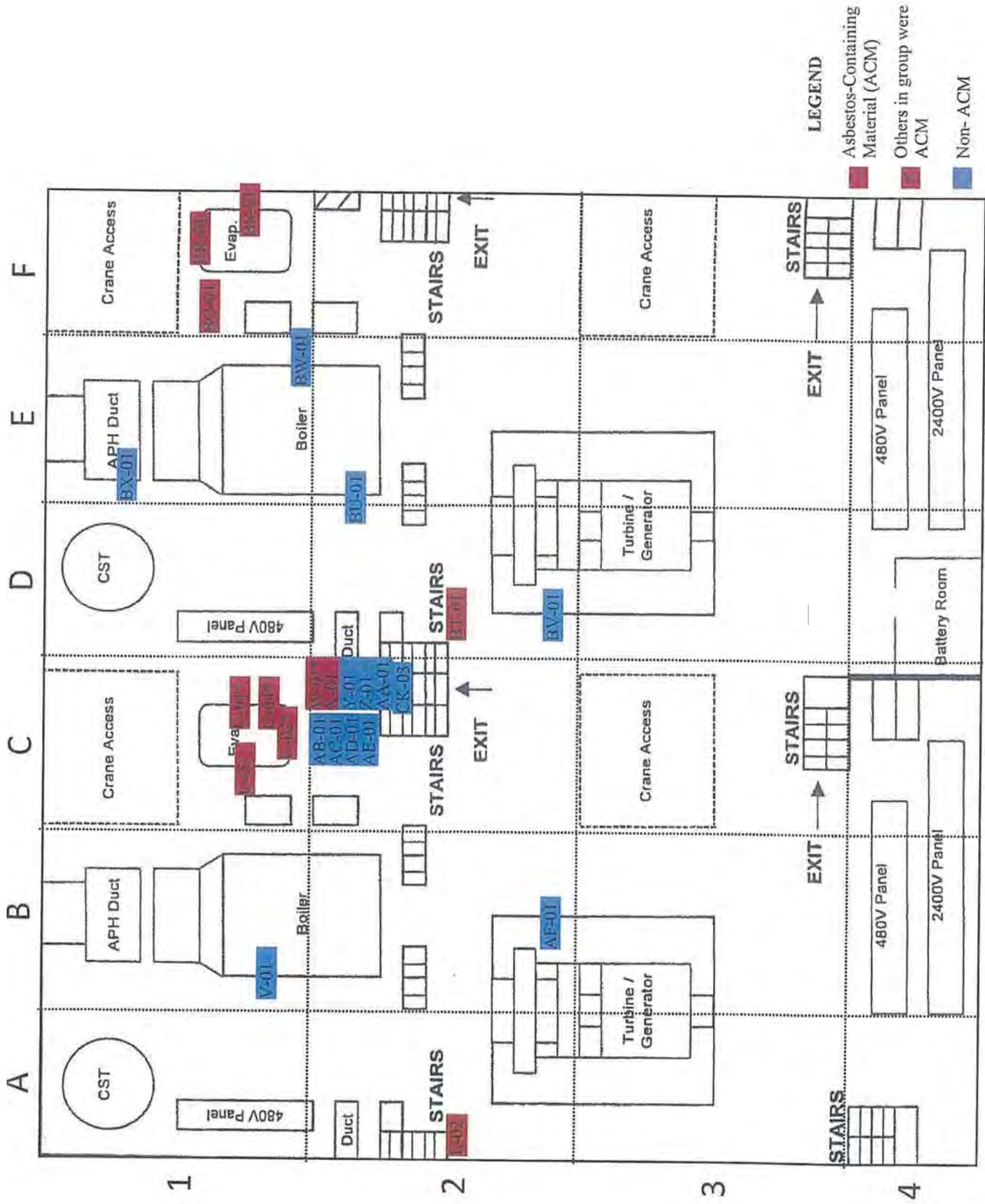


Figure 11  
OPERATING FLOOR ACM SURVEY  
HAZMAT Survey

Vj ku'ci g'pypvkvpcmf "gh'dtrepm

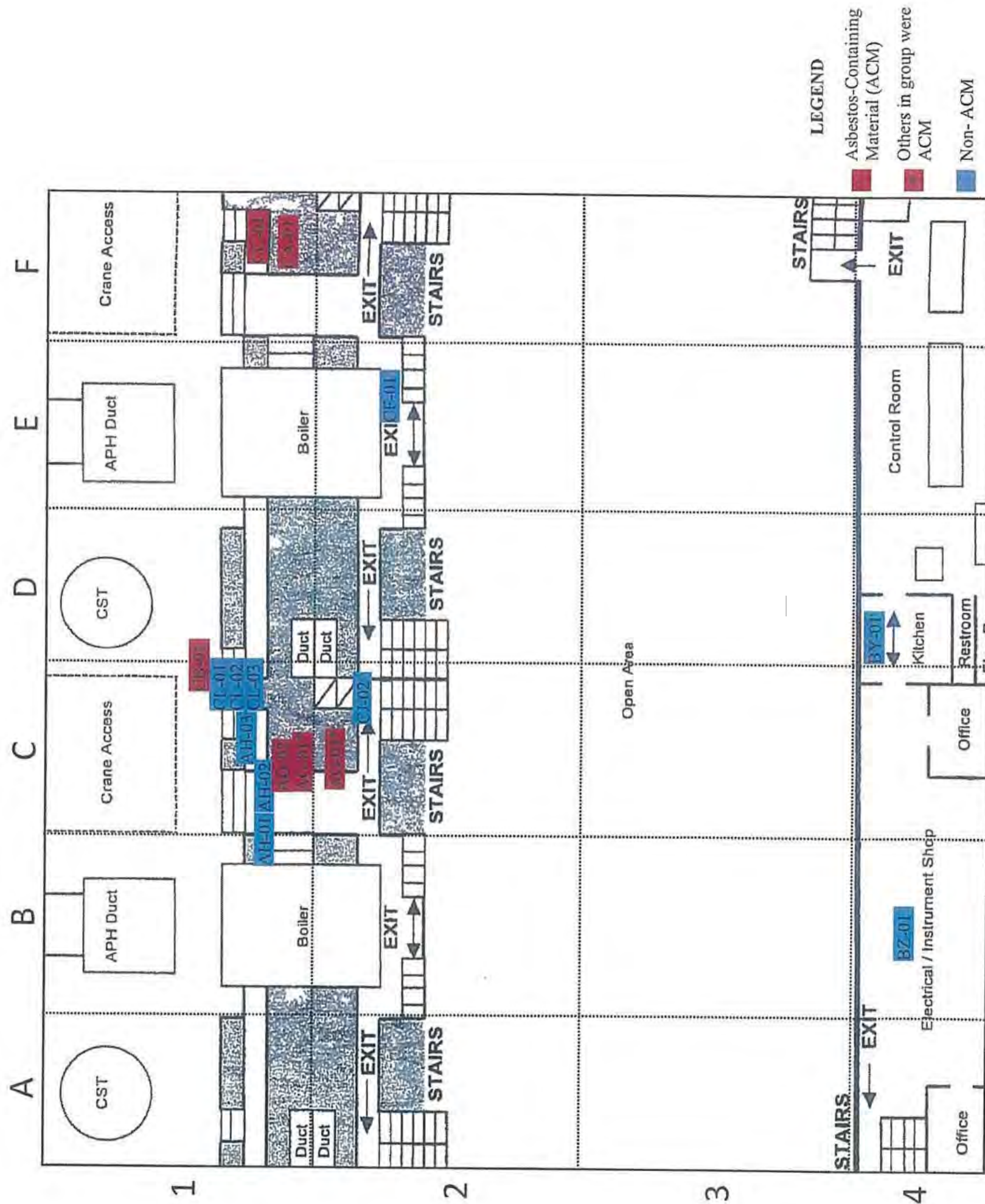


Figure 12  
AIR PREHEATER PLATFORM ACM SURVEY  
HAZMAT Survey

*Vj ku'ci g'pɔgɔkɔpɔm' ɪgh'dɪɪɪpm*

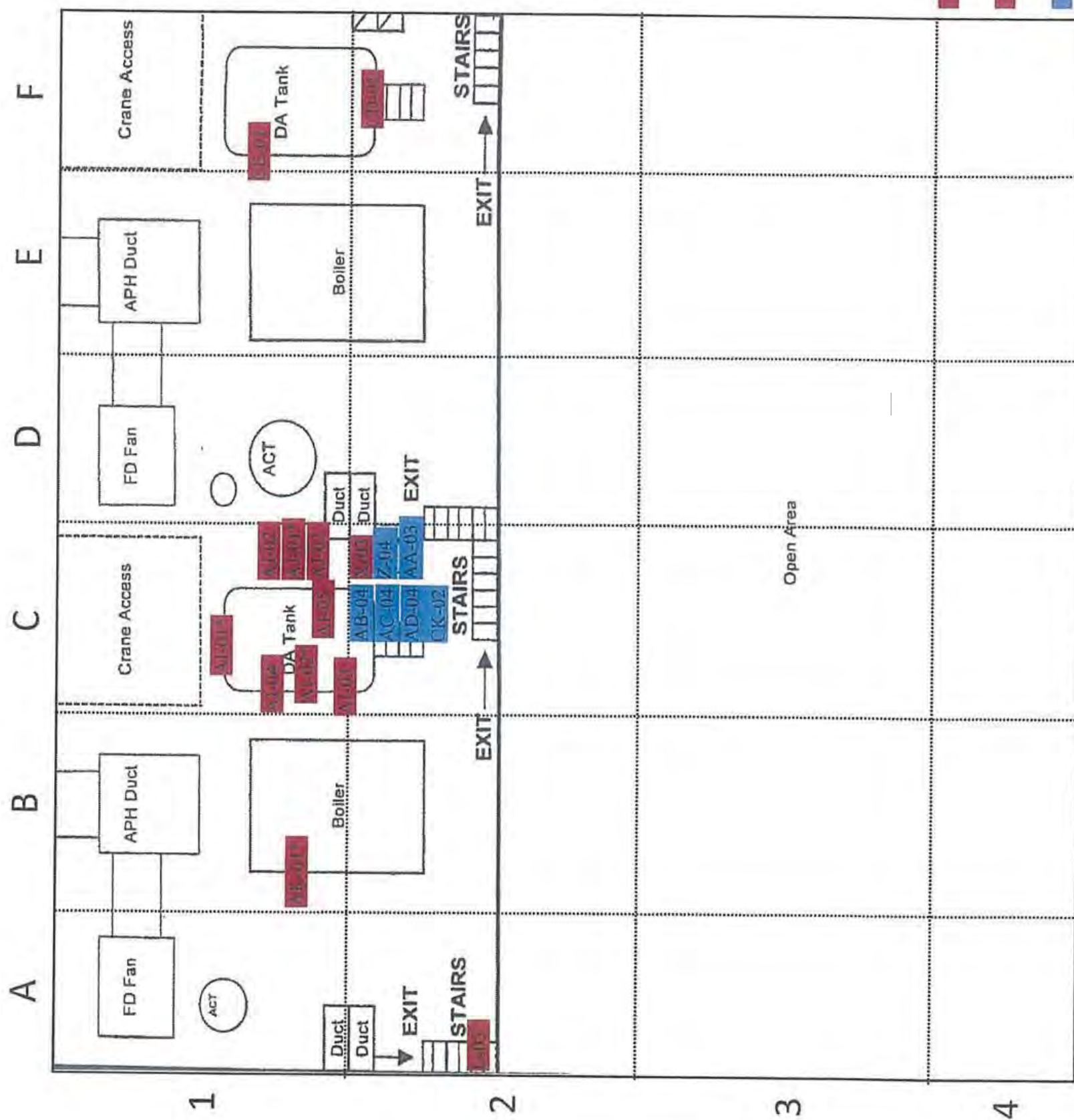
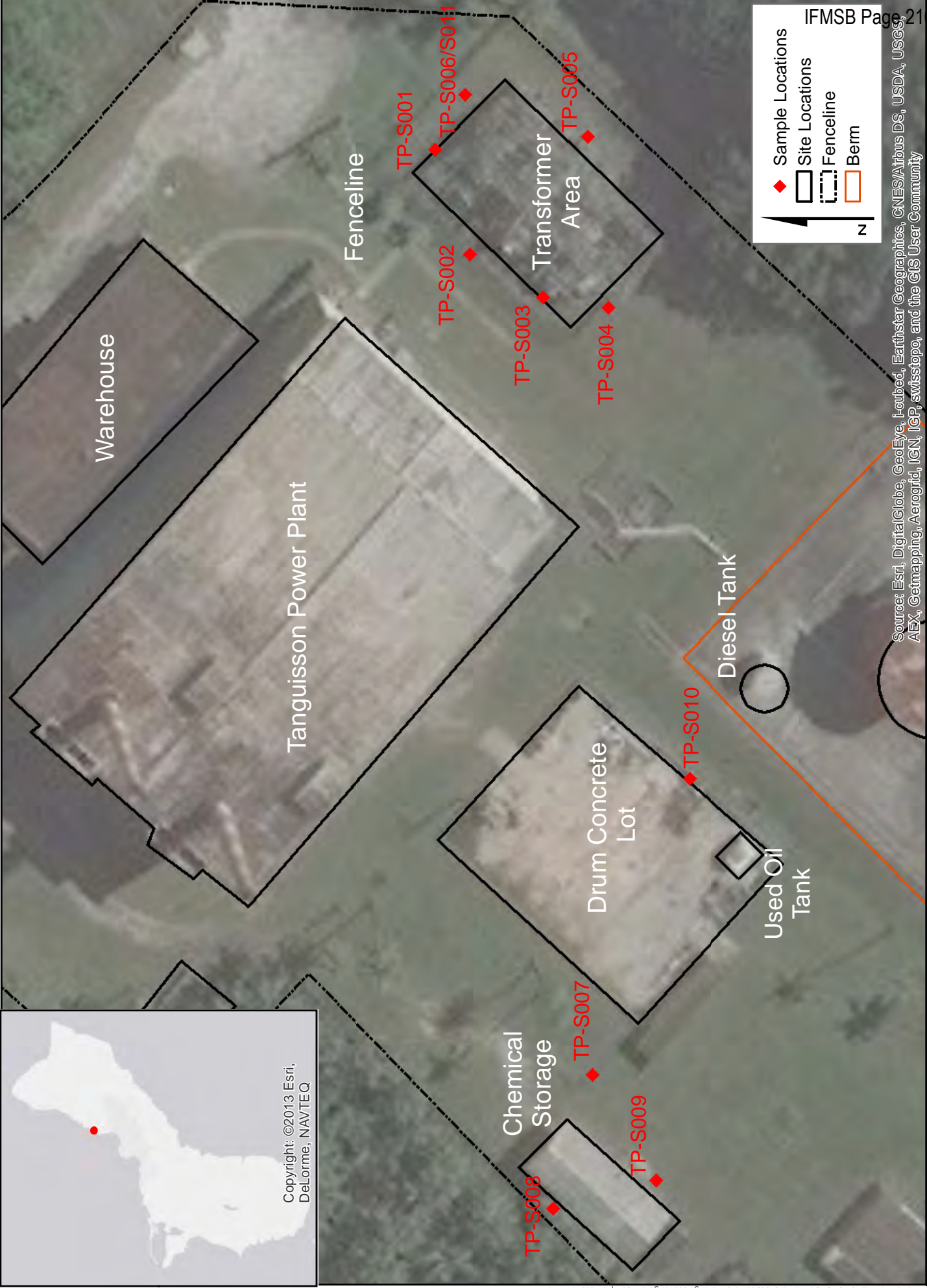


Figure 13  
 DRUM DECK ACM SURVEY  
 HAZMAT Survey

Vj ku'ci g'p'pgp'k'p'c'm' 'gh'd're'p'm



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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Figure 14  
Soil Sample Locations  
Tanguisson Power Plant



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"  
"

*J c|ctf qwu'O cygt kn'U m xgl'F cw'T gr qt v'lt'Vcpi whuqp'Rqy gt'R rcpv'*

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**APPENDIX A**  
**ACM INSPECTION REPORT**



"  
"

*J c|ctf qwu'O cygt knu'Uwt xgl'F cw'Tgr qt v'lqt'Ve pi wkuqp'Rqy gt'Rrcpv'*

---

*Vj ku'rci g'kpvwpkpcnd'ghv'drcpm*

# ASBESTOS INSPECTION REPORT

*Tanguisson Power Plant, Dededo, Guam*

Inspection Dates: June 25, 2013 through July 19, 2013

Report Date: July 25, 2013



**Prepared For:**

Guam Power Authority, Safety Division

1911 Route 16, 2<sup>nd</sup> Floor

Harmon, Guam 96911

(671) 648-3056



**Prepared By:**

Industrial Hygiene Professionals, Inc.

P.O. Box 5086

Hagåtña, Guam 96932

Tel/Fax: (671) 734-0749

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APPENDIX D – INSPECTOR AND LABORATORY CERTIFICATIONS

## 1.0 PURPOSE AND SCOPE

The purpose of this inspection is to identify asbestos-containing materials (ACM) within the Guam Power Authority (GPA) Tanguisson Power Plant located in the municipality of Dededo, Guam. The scope includes a visual inspection of the power plant, sampling and analysis of suspect ACM, labeling of materials as per inspection/results, and generating a report detailing the findings.

### 1.1 Background

Industrial Hygiene Professionals, Inc. (IHP) has been conducting visual inspections for damaged ACM for the Guam Power Authority at the Cabras and Tanguisson Power Plants for over 10 years as part of an ongoing air monitoring program to ensure that airborne levels of asbestos remain at acceptable concentrations. These inspections have familiarized IHP staff with the locations of known ACM (labeled), presumed ACM (un-labeled), and non-ACM (labeled). Materials of concern are the thermal system insulation (TSI) found on the various components of the power plant such as the pipes/lines.

The purpose of this inspection is to clarify between the actual ACM, the presumed ACM, and the non-ACM by means of sampling, analysis, and labeling.

## 2.0 METHODS

The asbestos inspection was performed in accordance with the EPA guidance document "Asbestos in Buildings: Simplified Sampling Scheme for Friable Surfacing Materials", EPA 560/5-85-030a, October 1985 by and EPA-accredited Asbestos Building Inspector as per the EPA Model Accreditation Plan (MAP) in 40 CFR 763, Subpart E, Appendix C.

### 2.1 Identifying Sampling Areas for ACM

The sampling areas were determined by the type of suspect building material present. The three suspect building material categories as per EPA are surfacing ACM, thermal system insulation (TSI) ACM, and miscellaneous ACM and are described below:

**Surfacing ACM.** Asbestos-containing material which contains more than 1% asbestos and is sprayed-on, troweled-on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, or other purposes.

Friable surfacing materials are to be grouped into "homogeneous" sampling areas. A homogeneous sampling area contains friable material that is uniform in texture, color, date of application, and appears identical in every other respect. Materials installed at different times belong to different homogeneous sampling areas. If there were any reason to suspect that materials might be different even though they appear uniform, they were assigned to separate homogeneous sampling areas. For example, materials in different wings of a building, on different floors, or in special areas were assigned to separate homogeneous sampling areas unless there was good reason to believe that the material is identical throughout.

In a large multi-story building like the power plant, a separate homogeneous sampling area for each floor may not be necessary. If the material appears identical on every floor, several floors can be grouped into one homogeneous sampling area. Floors were grouped if the material was applied at different times or if there is some other reason to suspect that the material might not be homogeneous. When there were any doubts, suspect materials were assigned to separate homogeneous sampling areas.

**Thermal system insulation (TSI) ACM.** ACM which contains more than 1% asbestos and is applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior structural components to prevent heat loss or gain or water condensation.

The concept of homogeneous sampling areas applies equally well to thermal system insulation (TSI) as to surfacing material. The major difference is that insulation on thermal systems is likely to be much more varied than materials on surfaces. A "typical" building or industrial facility may contain multiple insulated pipe runs from any combination of the following major categories:

- Hot water supply and/or return;
- Cold water supply;
- Chilled water supply;
- Steam supply and/or return;
- Roof or system drain;
- Chemical or waste transport.

Each of these systems may have been installed at different times and insulated with different materials. Therefore, it is best to first identify the building system in question and use this information in conjunction with the physical appearance of the insulation to delineate homogeneous sampling areas.

Each "system" may be composed of a variety of materials. For example, the following list contains 9 different types of thermal insulation:

- Corrugated cardboard-type pipe wrap
- White chalky pipe wrap
- Fibrous glass insulation covering a pipe wrap of unknown characteristics
- Cementitious "mud" around pipe fittings
- Hard, canvas-wrapped insulation on pipe elbows
- Block insulation on boilers
- White batt insulation on boiler breeching
- Black batt insulation inside ducts
- Rope around pipe sleeves in ceiling and floor slabs

Each of these insulation types were considered a separate component of the system, and a separate homogeneous area for sampling purposes. Fibrous glass, foam glass, rubber, and styrofoam are not suspect materials. However they may cover up ACM.

The number of samples and the sample locations depended on site conditions. At least three samples were collected from each homogeneous area of unknown thermal system insulation. For long pipe runs or risers, more samples may be taken, especially if the piping extends to more than one functional space. Special attention were paid to any change in the appearance of the insulation on long pipe runs. This indicated a possible change in insulation type and the need to delineate a new sampling area.

**Miscellaneous ACM.** Interior asbestos-containing building material on structural components, structural members or fixtures, such as floor and ceiling tiles; did not include surfacing material or thermal system insulation.

Miscellaneous suspect materials are, for the most part, non-friable (ceiling tiles are an exception). As such, bulk sampling is typically more difficult and destructive.

Ceiling tiles, floor tiles and the associated mastic are probably the most frequently sampled types of materials in the miscellaneous category. Separate homogeneous areas were identified just as with surfacing material and thermal insulation. (Many different types, colors, and

vintages of both floor and ceiling tile can be found in a building.) Samples of miscellaneous materials were collected in inconspicuous locations whenever possible.

The Building Inspector may choose to follow the sampling protocol developed for surfacing material when sampling miscellaneous material.

## 2.2 Number and Location of Samples

Sample locations were selected so that they are representative of the homogeneous sampling area with regard to the material present and its potential asbestos content. The number of samples were determined by the condition of the material. Existing labels and visual inspections of the material were used to determine the number of samples necessary to confirm whether the material does or does not contain asbestos. For surfacing materials and TSI that have been previously labeled as ACM, a single confirmatory sample per homogeneous area were collected and analyzed. If the result of the confirmatory sample showed that the material is in fact ACM, the entire homogeneous area was deemed as ACM. When the result of the confirmatory sample reveal that it is non-ACM, at least two (2) additional samples were collected from the homogeneous area and analyzed. Only when the results concurred with the initial negative (non-ACM) result, then it was deemed non-ACM. When asbestos was detected in any of the additional samples, the entire homogeneous area/section was deemed as ACM.

For unknown/unlabeled TSI, a minimum of three (3) representative samples were collected. When the results of any of the representative samples of a given homogeneous area contained asbestos, the entire area was deemed as ACM. Only when all representative samples were negative for asbestos, was the homogeneous area deemed non-ACM.

As per TSI labeled non-ACM, a visual inspection was performed to confirm if the material was non-suspect such as fibrous glass, foam glass, rubber, or Styrofoam. For non-suspect materials, a confirmatory sample was not required but in some case was collected at the discretion of the Inspector.

For miscellaneous ACM, a minimum of one (1) sample was collected and analyzed.

## 2.3 Site Diagram, Sample Identification, and Reference Photos

A site diagram with a grid system has been created that effectively shows the site layout, levels, and the major components of the power plant. The diagram consisted of floor plans of each of the five levels of the power plant which are as follows: Basement Floor (BF); Ground Floor (GF), Turbine Deck (TD); 4) Mezzanine Deck (MD); 5) Drum Deck (DD). The relative locations of each sample was documented in the diagram. The grid system used was a simple column/row system using alphabets (A, B, C, etc.) for the columns and numbers (1, 2, 3, etc.) for rows and is repeated per level. It is also important to note that the power plant is split into two similar units. Unit #1 occupies the spaces in Rows D through F, and Unit #2 occupies the spaces in Rows A through C.

For example, a section of the BF diagram with the grid system is shown below:



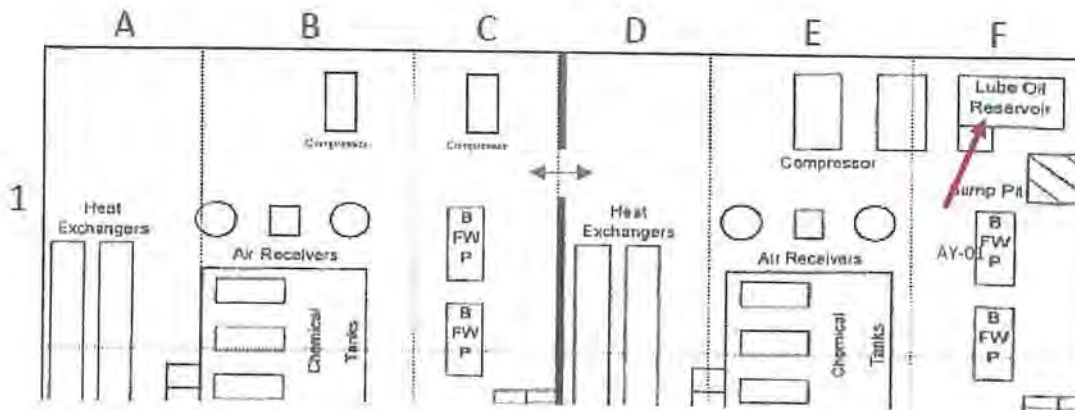


FIGURE 1. BASEMENT FLOOR DIAGRAM SECTION

In the section shown above, the component "Lube Oil Reservoir" (arrow), is located in the Basement Floor or BF, in the "F" column and in the "1" row, or simply located in BF - F1. The system is used in this inspection and report to help identify the relative locations of components and samples. It is also used in the sample identification and description provided to the laboratory and in the reference photos.

Sample identification is based on the homogeneous area of the component to be sampled and the number of the sample. In most cases, the component was readily identified by existing markings. In cases where no such markings were found, a number was assigned and used to identify the component as well as the sample.

In Figure 1, homogeneous area "AY" is the pipe labeled "5 BFP 1-1 Warm Up" in the Basement Floor (BF) and is the first sample taken from the homogeneous area, thus the sample identification is "AY-01". Using the grid system, the full sample description will be as follows:

Sample ID: AY-01

Description: 5 BFP 1-1 Warm Up – BF – F1

Reference photos were also be taken of the entire power plant, corresponding to each portion of the grid system. Photos were be taken at the conclusion of the inspection and depict the power plant materials/components with labels and signage identifying each as ACM or non-ACM.

Ultimately, the diagram along with the laboratory report, reference photos, and labels can be used to aid in distinguishing what is ACM and what is non-ACM at the power plant.

For reference, please see sample location diagrams in Appendix A and the photo reference diagrams in Appendix B.

## 2.4 Sampling Procedures

Sampling was performed by an EPA-accredited Asbestos Building Inspector and used the materials/procedures listed below.

### Asbestos Sampling Tools and Materials:

- A ladder and flashlight are needed to access areas and aid visibility;
- Airtight, rigid sampling containers;
- A plastic spray mister bottle with water to spray the area to be sampled;
- Plastic drop cloths to spread beneath the area to be sampled;
- A knife, linoleum cutter, cork borer, or other tool appropriate for extracting samples;

- f. A caulking gun and compound for filling holes once a sample has been extracted;
- g. Spray acrylic or adhesive to encapsulate sample extractions;
- h. Duct tape or other suitable patch material for repairing thermal system insulation jackets;
- i. Cloths (pre-moistened) for cleaning up debris and tools;
- j. A vacuum cleaner equipped with high efficiency particulate air (HEPA) filters;
- k. Indelible ink pen for labeling sample containers;
- l. Camera for photographic documentation; and
- m. Tape measure.

#### **Administrative Supplies:**

In addition to sampling area diagrams, data forms for bulk samples were needed in the field. Identification labels for sample containers, packing enclosure warnings and forms, plastic bags, sturdy cartons, sealing tape, and writing materials (pens, pencils, clip board) are also needed.

#### **Bulk Sampling Procedure:**

Steps for sampling surfacing material, TSI, and miscellaneous materials are set forth below.

- a. Spread the plastic drop cloth and set up other equipment, e.g., ladder (except for flooring samples).
- b. Put on protective equipment (respirator at all times, protective clothing).
- c. Label bulk sample container with date, name or initials of sampler, identification number and record number, sample location, and type of material sampled on a sampling data form.
- d. Mark the location of the sample on the diagram. Photograph the bulk sample collection site for project records. The sample container identification and record number must match the marking sampling and record identification on the diagram.
- e. Moisten area where sample is to be extracted (spray the immediate area with water).
- f. Extract sample using a clean knife, cork borer, or other similar device to cut out or scrape off a small piece of the material. Be sure to penetrate all layers of material. Be careful not to disturb adjacent material.
- g. Place sample in a container and tightly seal it.
- h. Wipe the exterior of the container with a wet wipe to remove any material which may have adhered to it during sampling.
- i. Clean tools with wet wipes and wet mop or vacuum area with a HEPA vacuum to clean all debris.
- j. Fill hole with caulking compound on highly friable material and/or spray with an encapsulant (to minimize subsequent fiber release) or for appearance.
- k. Repeat the above steps at each sample location. Place sample containers in plastic bags.

Protective clothing, wet wipes and rags, cartridge filters, and drop cloth were placed in a labeled disposal bag, sealed and retained until lab results were received. Based on the results, the wastes were turned over to a licensed third party for proper disposal as asbestos-containing waste.

## **2.5 Laboratory Analysis of Bulk Samples for Asbestos**

The laboratory selected is Schneider Laboratories Global, Incorporated and is accredited through the National Voluntary Laboratory Accreditation Program (NVLAP) for asbestos analysis by polarized light microscopy (PLM). PLM is the EPA-required method for analyzing bulk materials for asbestos. PLM utilizes a light microscope equipped with polarizing filters. The identification of asbestos fiber bundles is determined by the visual properties displayed when the sample is treated with various dispersion staining liquids. Identification is substantiated by the actual structure of the fiber and the effect of polarized light on the fiber, all of which are

viewed by the trained technician. The technician is also trained to give a visual estimation of the percentage of asbestos in a sample. The limit of detection of asbestos by PLM is about one percent (1 %) by area. Samples containing lower levels of asbestos are not reliably detected by this technique.

The U.S. EPA's NESHAP regulations require that point counting analysis be performed when analyzing samples collected from buildings or operations covered by the regulation. This technique is conducted to quantify asbestos in samples where asbestos content is less than 10% when standard PLM is used. EPA has clarified the use of point counting by stating that:

- A sample in which no asbestos is detected by polarized light microscopy does not have to be point counted provided a minimum of three slide mounts are prepared and examined to confirm no asbestos has been detected;
- If the analyst detects asbestos in the sample and estimates the amount by visual estimation to be less than 10%, the owner or operator of the building may either assume the amount to be greater than 1 % and treat the material as ACM, or require the verification of the amount by point counting;
- If a result obtained by point counting is different from a result obtained by visual estimation, the point count result must be used.

In 1993, EPA developed an improved test method entitled "Method for the Determination of Asbestos in Bulk Building Materials" (EPA/600/R-93/116). This is the preferred method, where applicable.

## 2.6 Laboratory Reporting for ACM

The analytical laboratory provides a detailed bulk sample analysis report that includes the following information, at a minimum:

- Client sample identification number;
- Laboratory sample identification number;
- Analytical technique used;
- Laboratory quality control procedures;
- Physical description of sample, as received;
- Type(s) and estimated percentage of asbestos;
- Type(s) and estimated percentage of non-asbestos fibers;
- Type(s) (if known) and percentage of other components;
- Date of sample collection and date of analysis;
- Analyst's signature.

This information, along with data generated in the field (e.g., location of sample, type of material, photo references, etc.), will be maintained as part of an overall building inspection, recordkeeping program.

## 2.7 Health and Safety Considerations

### Exposure to Asbestos.

Asbestos fibers might be released during the collection of bulk samples and sampling jobs may therefore pose a health hazard to inspectors. As a minimum level of protection, Inspectors wore a respirator (either a full or half-face mask with high efficiency (P100) disposable filter cartridges) while collecting bulk samples of friable asbestos.

Disposable clothing were worn during sampling if the sampling operation is likely to dislodge pieces of suspect material or if the environment is extremely dusty (e.g., crawl space, dirty mechanical room). Hearing protection was used when the Inspector must spend a considerable amount of time in a mechanical room, processing plant, or similar location where operating machinery produces significant noise. Inspectors had plastic bags, twisters, and labels with them to handle the disposal of cartridges, protective clothing, wet cloths, and debris. The waste materials were stored until receipt of the results. Based on the results, the wastes were turned over to a licensed third party for proper disposal as asbestos-containing waste.

## 2.8 Labeling

Once the laboratory results were received, labeling of the materials/components was performed by the Inspector. Based on the results, labels were affixed onto the material/component to identify it as ACM or non-ACM. For materials/components with asbestos, the following label were used:



For materials/components that have been confirmed not to contain asbestos, the following label was used:



Existing labels or signage reading "DANGER – ASBESTOS" and "NON-ASBESTOS" were also used to identify ACM from non-ACM. For materials/components with existing labels that concur with the results, such labels and signage remained. However, if the existing labels/signage were contrary to the results, the labels/signage were removed or covered and the appropriate label were affixed.

## 3.0 INSPECTION AND SAMPLING

The complete inspection of the Tanguisson Power Plant was conducted between June 25, 2013 and July 19, 2013 which includes the diagram preparation, sampling, and labeling. Both power plant units #1 and #2 were

inspected along with the various rooms and spaces within the compound such as the offices, control room, laboratory, tool room, storage warehouse, etc.

Overall, a total of 158 samples from 91 homogeneous sampling areas were collected by an EPA-Accredited Asbestos Building Inspector. Types of materials sampled were TSI, floor tiles, cove bases, and ceiling tiles. No surfacing materials were observed during the inspection.

Due to the layout of the power plant and the various components, pipes, and lines, certain components, pipes, and lines were often grouped or combined in the sampling process if enough attributes (such as origin, destination, intersections/junctions, insulation type, etc.) were similar. Notable homogeneous sampling areas are listed below:

**Table 1. Notable Homogeneous Sampling Areas\***

Homogeneous Area	General Location
Homogeneous Area "F"	Condenser/Hotwell Pipes (Unit 2)
Homogeneous Area "H"	LP/HP Heaters (Unit 2)
Homogeneous Area "P"	Boiler Insulation (Unit 2)
Homogeneous Area "L"	Main Steam Line (Unit 2)
Homogeneous Area "R"	LP/HP Heaters to Condenser Pipes (Unit 2)
Homogeneous Area "AL"	Floor Tiles – Ground Floor Offices
Homogeneous Area "AV"	Miscellaneous Drain Receiver (Unit 1)
Homogeneous Area "BE"	Condensate Deaerator (Unit 1)
Homogeneous Area "BO"	Diesel Generator Exhaust (Unit 1)
Homogeneous Area "BQ"	Tank Vent (Unit 1)
Homogeneous Area "CA"	Evaporator (Unit 1)

\*A complete list of homogenous areas can be found in Appendix C – Asbestos Laboratory Report and Chain-of-Custody Forms

The samples were shipped with chain-of-custody forms to the accredited laboratory (Schneider Laboratories, Richmond, VA) for analysis by polarized light microscopy (PLM). Samples containing greater than one percent (> 1%) asbestos are reported as asbestos-containing materials (ACM).

**4.0 RESULTS AND RECOMMENDATIONS**

Based on the results, asbestos is found in numerous materials throughout the power plant. Most materials that were previously labeled or assumed to be ACM were confirmed to contain asbestos. In a few cases, however, materials that were previously labeled as ACM were confirmed to be non-ACM.

All materials/components with TSI have been labeled based on the results. All miscellaneous materials sampled such as floor tiles, ceiling tiles, and cove bases were confirmed not to contain asbestos. For further details, please see the sample location diagrams in Appendix A, the photo reference diagrams in Appendix B, as well as the complete laboratory reports and results in Appendix C.

The U.S. EPA National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations (40 CFR subpart M, part 61) require the removal of friable forms of asbestos and non-friable forms that may be rendered friable as a result of renovation/demolition activities. Friability refers to the ability to crumble, pulverize, or reduce to powder by hand pressure. OSHA regulates exposure to all types of asbestos in construction and general industry (29 CFR 1926.1101 and 29 CFR 1910.1001 respectively).

Materials regulated as ACM, such as those confirmed by this inspection, should be removed in accordance with the EPA NESHAP regulations prior to activities which may disturb those materials.

A qualified asbestos abatement contractor should be selected to perform any removal/disposal and or disturbance of ACM in accordance with the OSHA asbestos standard for construction (29 CFR 1926.1101) and all other applicable OSHA/EPA regulations.

## 5.0 REFERENCES

1. **Occupational Safety and Health Administration:** U.S. Code of Federal Regulations Vol. 29 Part 1926.62.
2. **Occupational Safety and Health Administration:** U.S. Code of Federal Regulations Vol. 29 Part 1926.1101.
3. **U.S. Environmental Protection Agency:** *Asbestos in Buildings Simplified Sampling Scheme for Friable Surfacing Materials*. Washington, DC: U.S. Environmental Protection Agency, 1985.
4. **U.S. Environmental Protection Agency:** U.S. Code of Federal Regulations Vol. 40 Subpart M, Part 61.
5. **U.S. Environmental Protection Agency:** U.S. Code of Federal Regulations Vol. 40 Subparts 260-281.
6. **U.S. Environmental Protection Agency:** U.S. Code of Federal Regulations Vol. 40 Subpart 763.

## 6.0 BUILDING INSPECTOR SIGNATURE

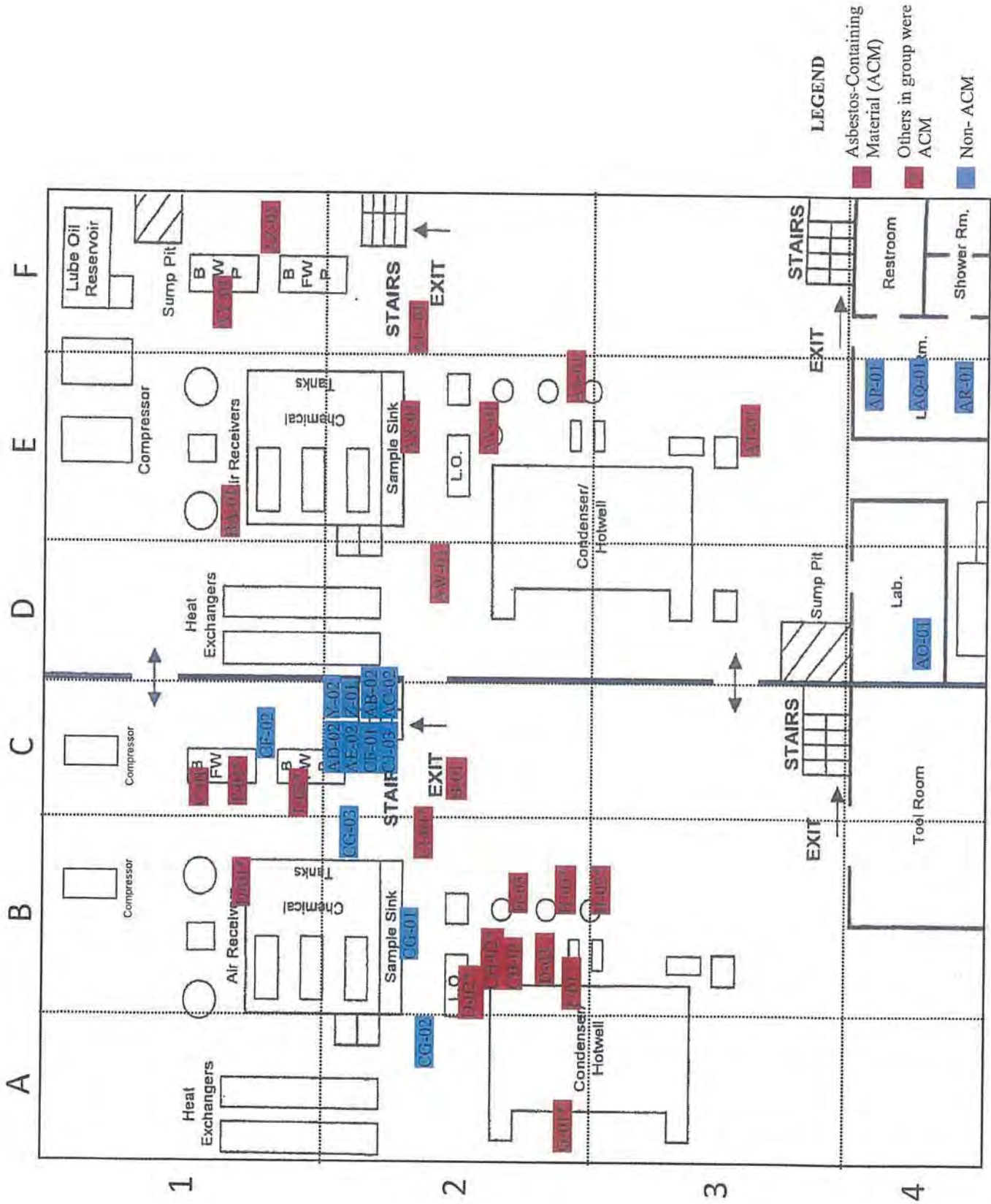
This inspection and report was supervised/reviewed by:



John M. (Jack) Fernandez, CIH, CSP, CMC

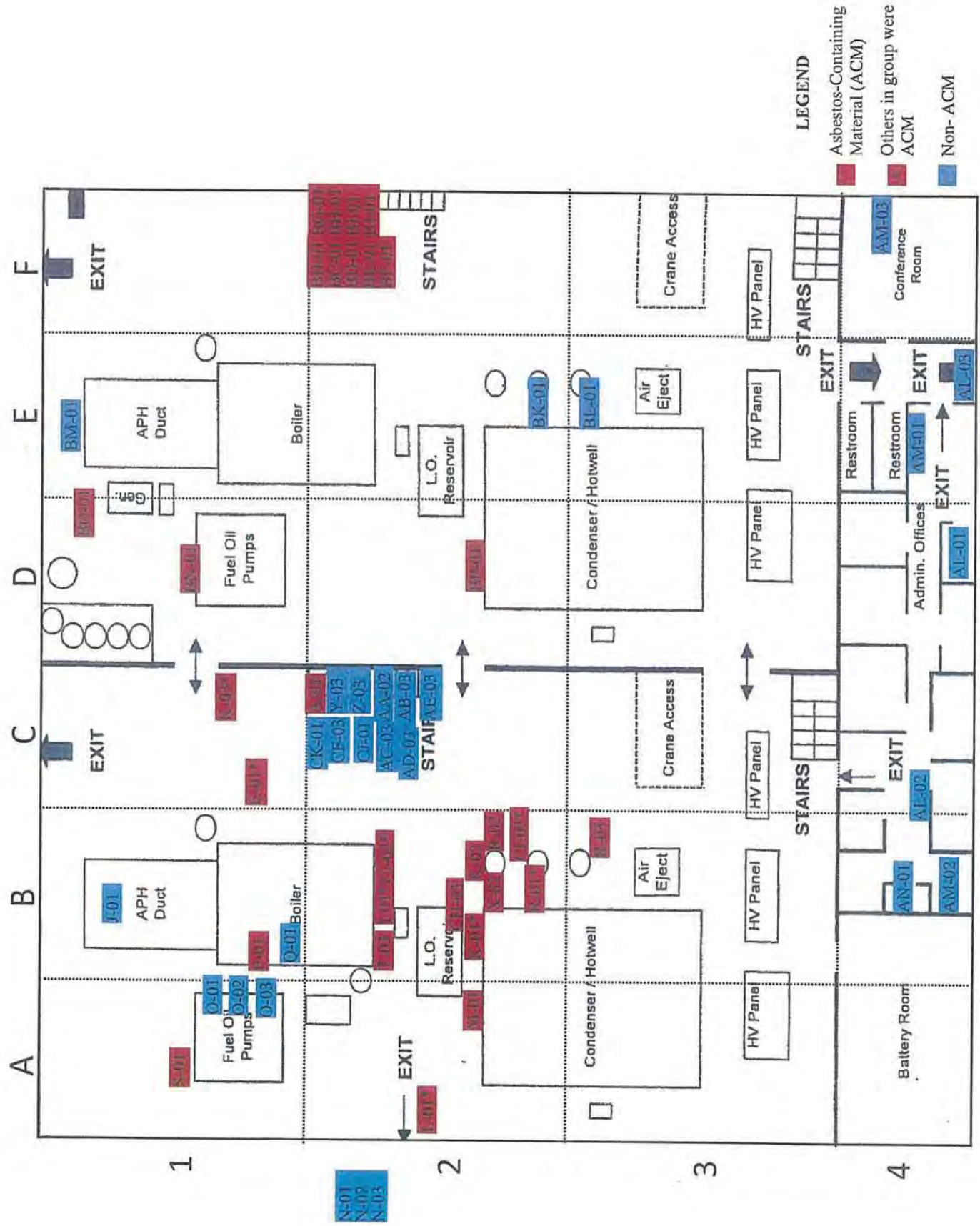
# **APPENDIX A**

## **SAMPLE LOCATION DIAGRAMS**

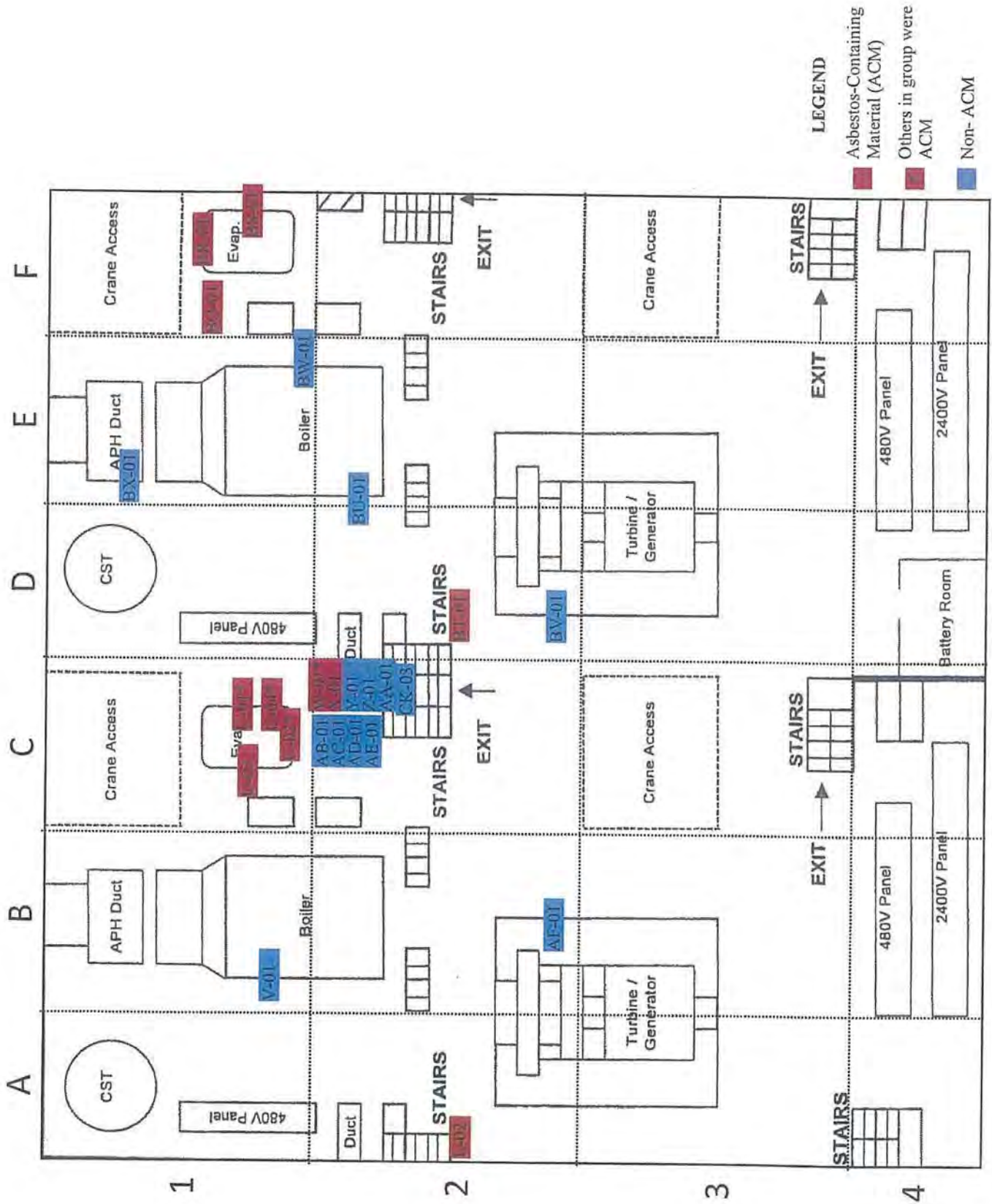


**BASEMENT**  
 APPENDIX A - SAMPLE LOCATION DIAGRAM 1 of 5





**GROUND FLOOR**  
 APPENDIX A - SAMPLE LOCATION DIAGRAM 2 of 5

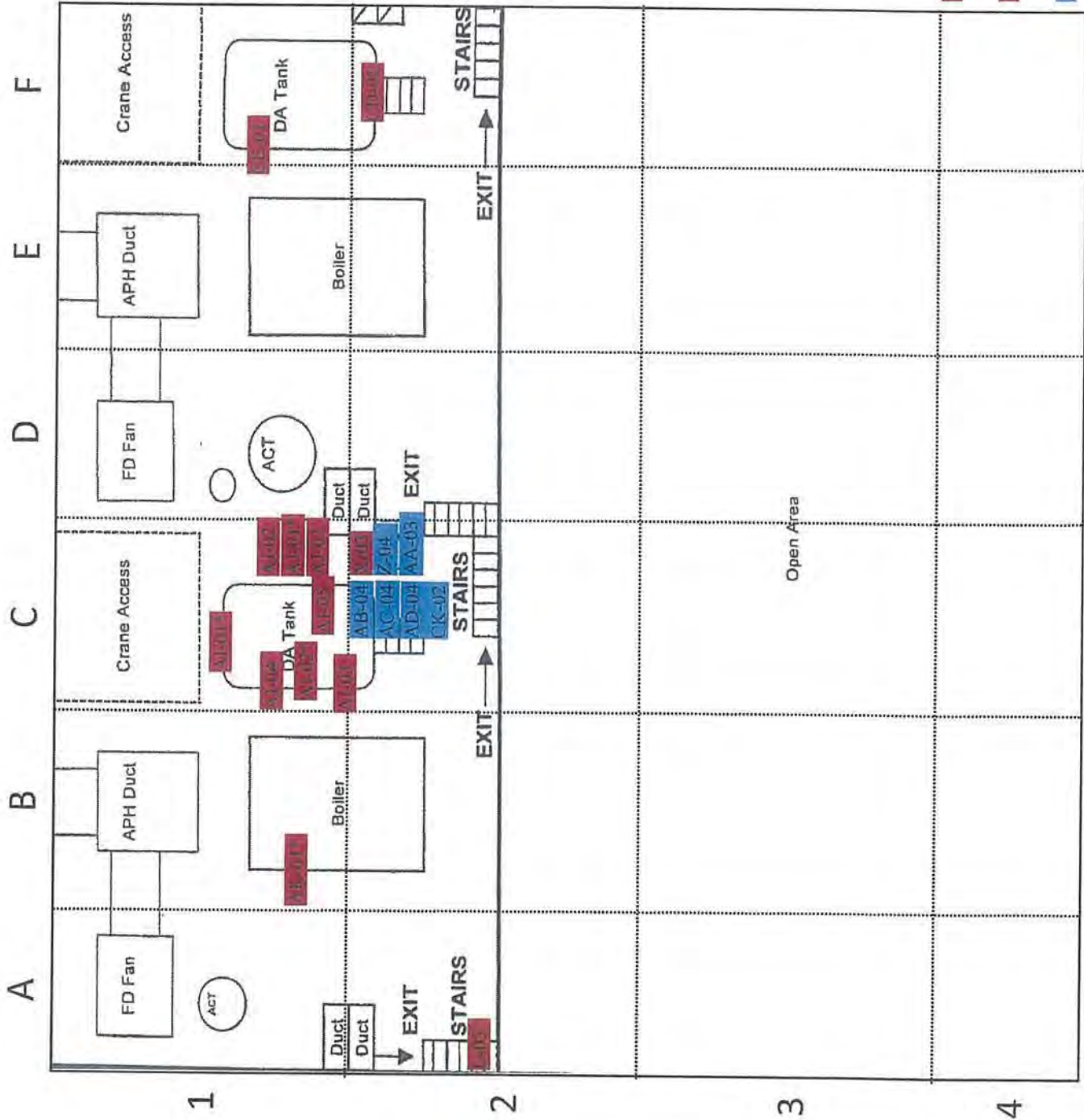




# MEZZANINE

APPENDIX A - SAMPLE LOCATION DIAGRAM 4 of 5

- LEGEND**
- Asbestos-Containing Material (ACM)
  - Others in group were ACM
  - Non-ACM



**DRUM DECK**  
 APPENDIX A - SAMPLE LOCATION DIAGRAM 5 of 5

# **APPENDIX B**

## **PHOTO REFERENCE DIAGRAMS**



Basement—A1—View of Heat Exchangers, Pumps



Basement—A1—View of Heat Exchangers



Basement—A1—Overhead Pipes



Basement—B1—View of Overhead Pipes



Basement—B1—View of Air Receivers



Basement—C1—View of BFWP and Pipes; Asbestos (red)/Non-Asbestos (blue)



Basement—C1—View of BFWP and Pipes; Asbestos (red)/Non-Asbestos (blue)  
Junction



Basement—C1—View of BFWP and Pipes; Asbestos (red)/Non-Asbestos (blue)  
Junction



Basement—C1—View of BFWP Overhead Pipes; Asbestos (red)/Non-Asbestos (blue)  
Junction





Basement—C1 —View of BFWP Overhead Pipes



Basement—D1—View of Overhead Pipes



Basement—D1—View of Pumps and Heat Exchangers



Basement—E1—View of Overhead Pipes



Basement—F1—View of BFWP and Pipes; Asbestos (red)/Non-Asbestos (blue) Junction



Basement—F1—View of BFWP and Overhead Pipes; Asbestos (red)/Non-Asbestos (blue) Junction



Basement—F1—View of BFWP and Pipes; Asbestos (red)/Non-Asbestos (blue) Junction



Basement—F1—View of Overhead Pipes; Asbestos (red)/Non-Asbestos (blue) Junction



Basement—F1 — View of Overhead Pipes; Asbestos (red)/Non-Asbestos (blue)  
Junction



Basement—A2—View of Overhead Pipes Leading to Ground Floor



Basement—A2—View of Condenser Pipes



Basement—B2—View of Overhead Pipes Leading to Condenser, Ground Floor



Basement—B2—View of Overhead Pipes Leading to Ground Floor; Asbestos (red)/Non-asbestos (blue) Junction



Basement—B2—View of LP Heaters, Pipes, Misc. Drain Receiver, Condenser



Basement—B2—View of LP Heaters, Pipes, Condenser & Pipes



Basement—B2—View of LP Heater, Condenser, Pipes, and Overhead Pipes



Basement—B2—View of Overhead Pipes, Sample Sink





Basement—C2—View of Pipes along Staircase Leading to Upper Levels



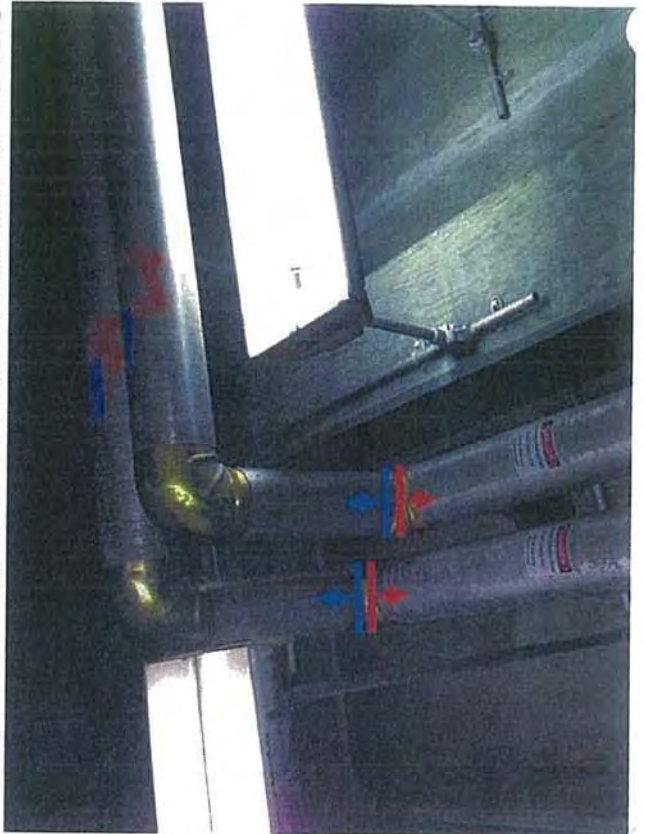
Basement—C2—View of Pipes along Staircase Leading to Upper Levels



Basement—C2—View of Pipes along Staircase Leading to Upper Levels



Basement—C2—View of Overhead Pipes; Asbestos (red)/Non-asbestos (blue) Junction



Basement—C2—View of Overhead Pipes; Asbestos (red)/Non-asbestos (blue)  
Junction



Basement—D2—View of Overhead Pipes



Basement—D2—View of Overhead Pipes, Heat Exchangers



Basement—E2—View of LP Heaters, Misc. Drain Receiver, Condenser, and Pipes



Basement—E2—View of LP Heater, Condenser, and Pipes



Basement—E2—View of Condenser/LP Heater Overhead Pipes



Basement—E2—View of Overhead Pipes and Sample Sink



Basement—F2—View of Overhead Pipes, Pipes along Staircase



Basement—F2—View of Pipes along Staircase Leading to Upper Levels



Basement—F2—View of Pipes along Staircase Leading to Upper Levels



Basement—F2—View of Pipes along Staircase Leading to Upper Levels



Basement—A3—View of Condenser



Basement—B3—View of Overhead Pipes Leading to Air Eject of Ground Floor



Basement—B3—View of LP Heater and Pipes

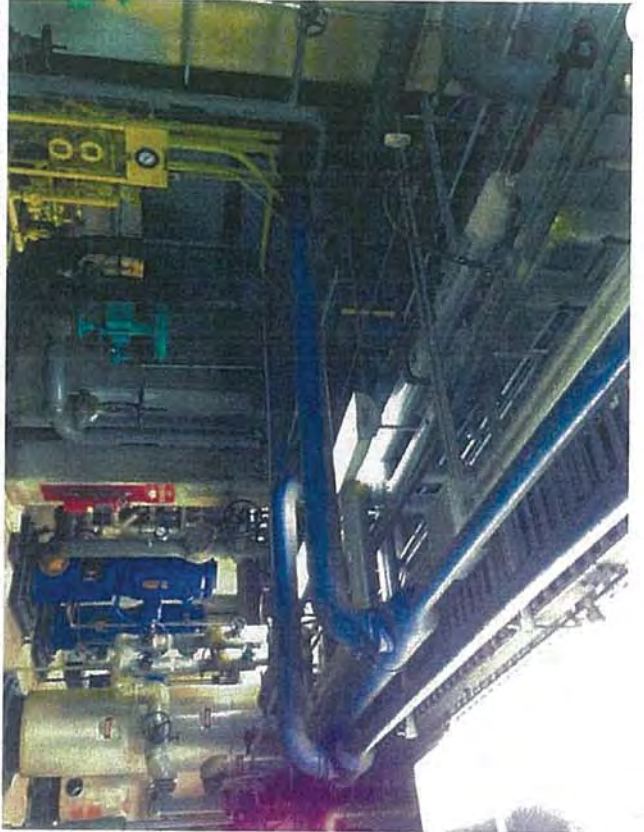


Basement—C3—View of Crane Access





Basement—D3—View of Condenser



Basement—E3—View of Overhead Pipes Leading to Air Eject of Ground Floor, LP Heater and Pipes



Basement—E3—View of LP Heater and Pipes



Basement—F3—View of Open Area



Basement—View of Locker Room and Laboratory



Basement—View of Tool Room



Ground Floor—A1—View of Fuel Oil Pump and Pipes



Ground Floor—A1—View of Fuel Oil Pump and Pipes



Ground Floor—A1—View of Fuel Oil Pump and Pipes



Ground Floor—A1—View of Fuel Oil Pump Pipes Leading to Upper Levels



Ground Floor—B1—View of APH Duct



Ground Floor—B1—View of APH Duct



Ground Floor—B1—View of Boiler, Pipes, and Tank Vent



Ground Floor—B1—View of Boiler Hatch



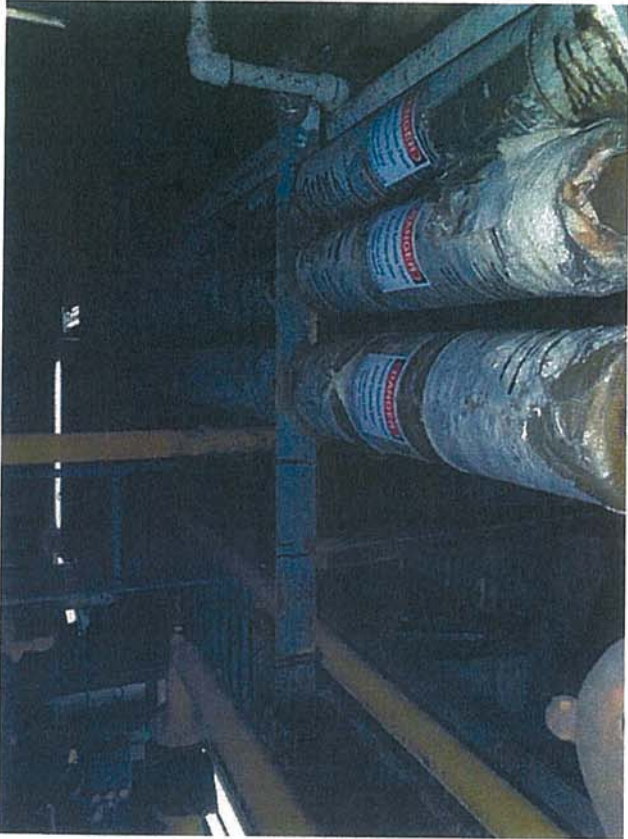
Ground Floor—C1—View of Crane Access and Bay Door



Ground Floor—D1—View of Fuel Oil Pump and Pipes



Ground Floor—D1—View of Fuel Oil Pump and Pipes



Ground Floor—D1—View of Fuel Oil Pump Pipes Leading to Upper Levels



Ground Floor—D1—View of Generator and Exhaust

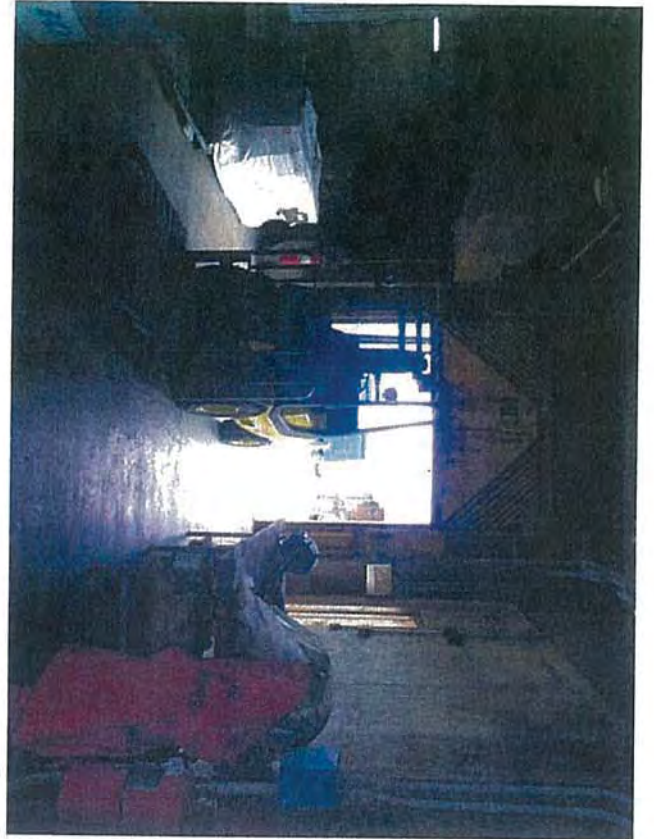


Ground Floor—E1—View of Boiler and APH Duct



Ground Floor—E1—View of Boiler, APH Duct, and Tank Vent (left)





Ground Floor—F1—View of Crane Access and Bay Door



Ground Floor—A2—View of Condenser Pipes



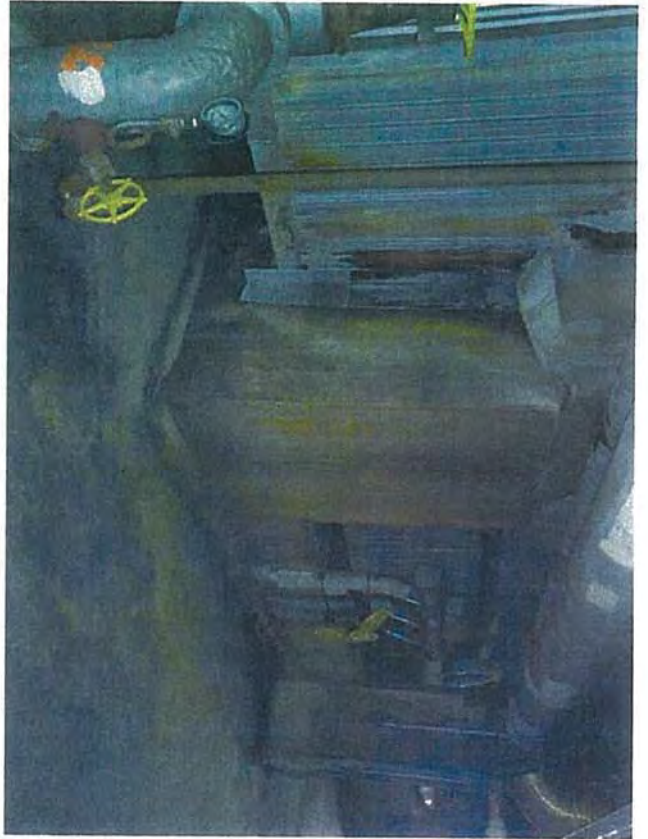
Ground Floor—A2—View of Condenser Pipes (Assumed to Contain Asbestos)



Ground Floor—A2—View of Condenser Pipes and Main Steam Line Asbestos (Red)/Non-Asbestos (Blue) Junction



Ground Floor—A2—View of Condenser Pipes (Assumed to Contain Asbestos)



Ground Floor—B2—View of Boiler, Boiler Pipes, and Overhead Pipes,



Ground Floor—B2—View of Condenser Pipes, HP Heater Pipes, and Overhead Pipes



Ground Floor—B2—View of Boiler and Pipes/Valves Originating from Basement



Ground Floor—B2—View of HP Heaters and Pipes; Asbestos (red)/Non-Asbestos (blue) Junction



Ground Floor—B2—View of HP Heater/Condenser Pipes



Ground Floor—B2—View of Condenser Pipes



Ground Floor—B2—View of Overhead Pipes Asbestos (Red)/Non-Asbestos (Blue) Junction



Ground Floor—C2—View of Pipes along Staircase



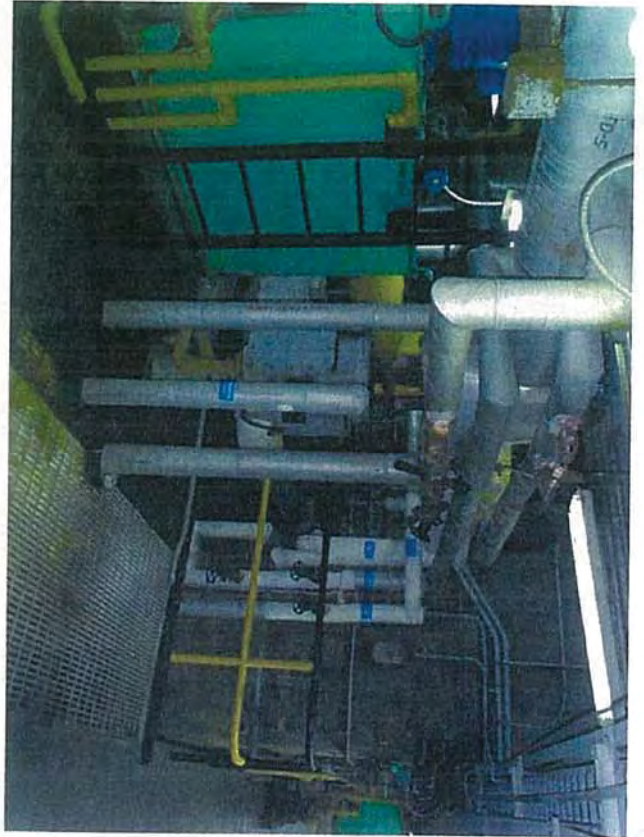
Ground Floor—C2—View of Pipes along Staircase



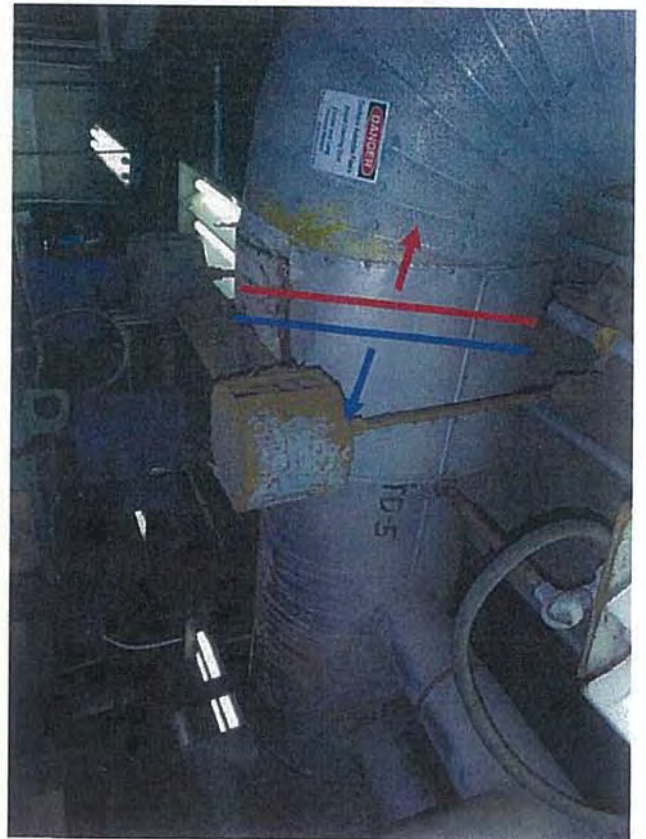
Ground Floor—C2—View of Overhead Pipes leading to Condenser



Ground Floor—C2—View of Overhead Pipes leading to Condenser



Ground Floor—D2—View of Condenser Pipes



Ground Floor—D2—View of Condenser Pipes and Main Steam Line Asbestos (Red)/Non-Asbestos (Blue) Junction



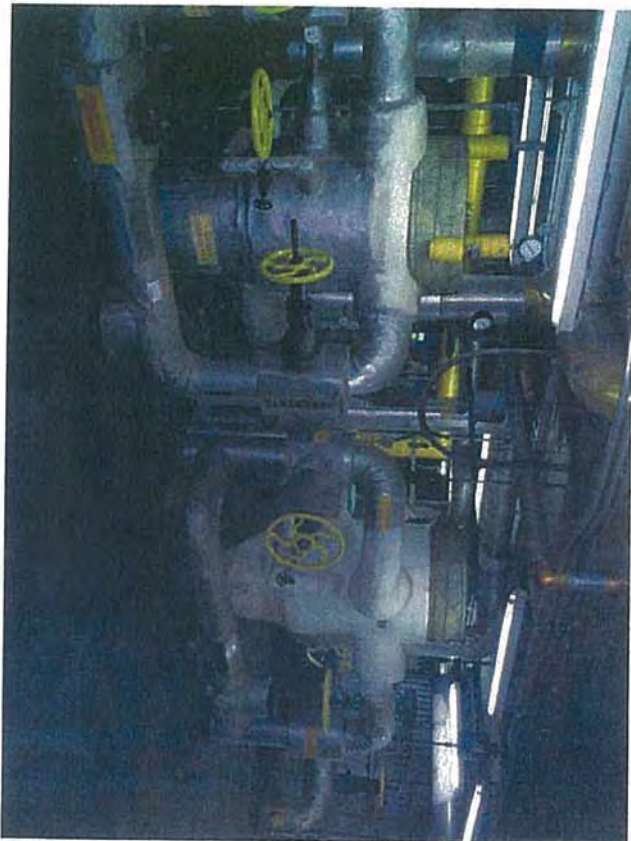
Ground Floor—D2—View of Condenser Pipes (Assumed to Contain Asbestos)



Ground Floor—E2—View of Boiler, Pipes, and Tank Vent (right)



Ground Floor—E2—View of Boiler, Pipes, Valves Originating from Basement



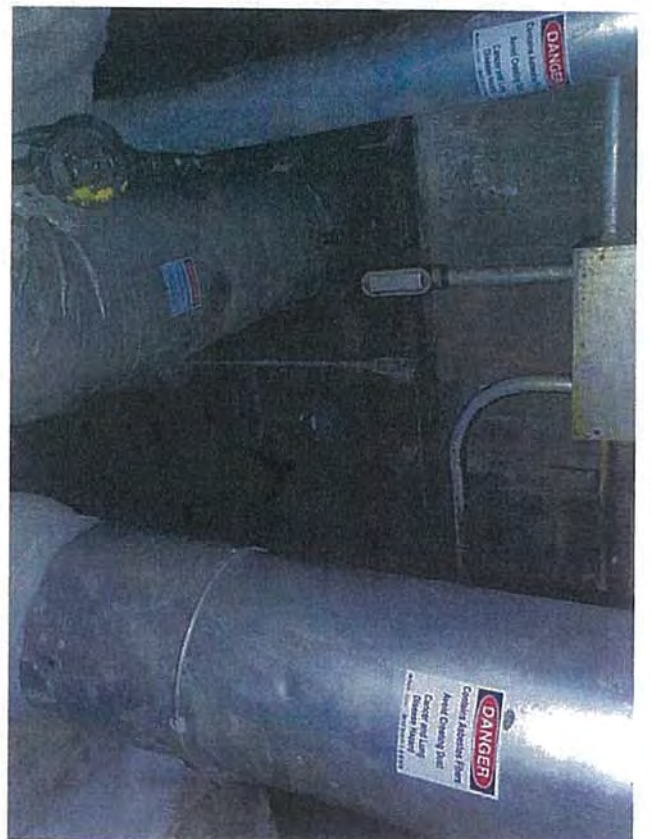
Ground Floor—E2—View of HP Heaters and Overhead Pipes



Ground Floor—E2—View of HP Heater/Condenser Pipes



Ground Floor—E2—View of Condenser Pipes



Ground Floor—E2—View of Condenser Pipes

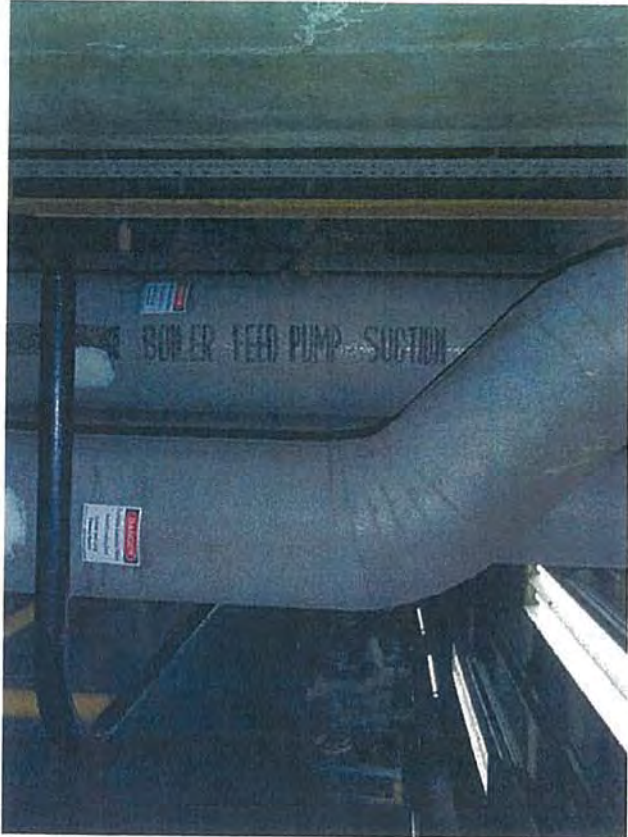


Ground Floor—E2—View of Condenser Pipes (Assumed to Contain Asbestos)

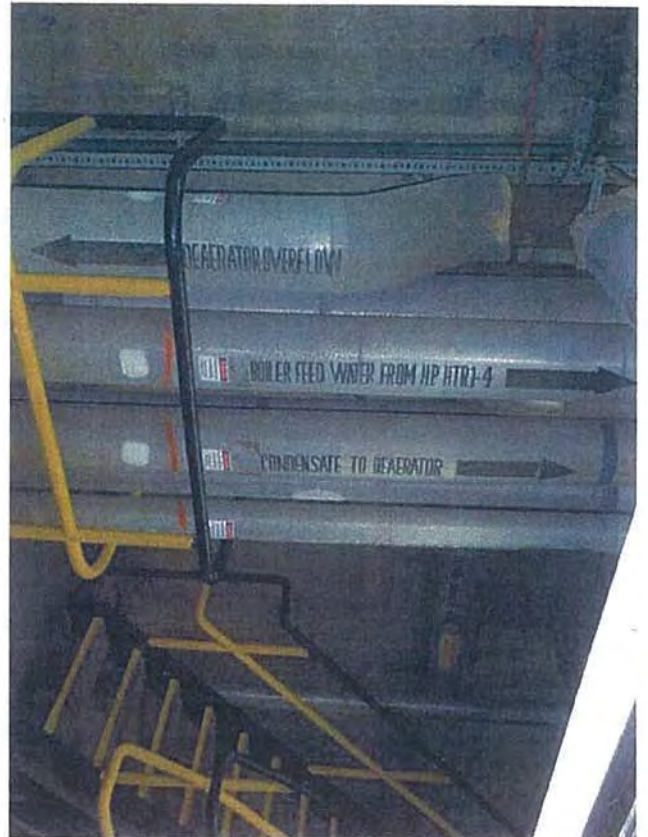




Ground Floor—F2—View of Overhead Pipes, Pipes along Staircase



Ground Floor—F2—View of Pipes Along Staircase



Ground Floor—F2—View of Pipes Along Staircase



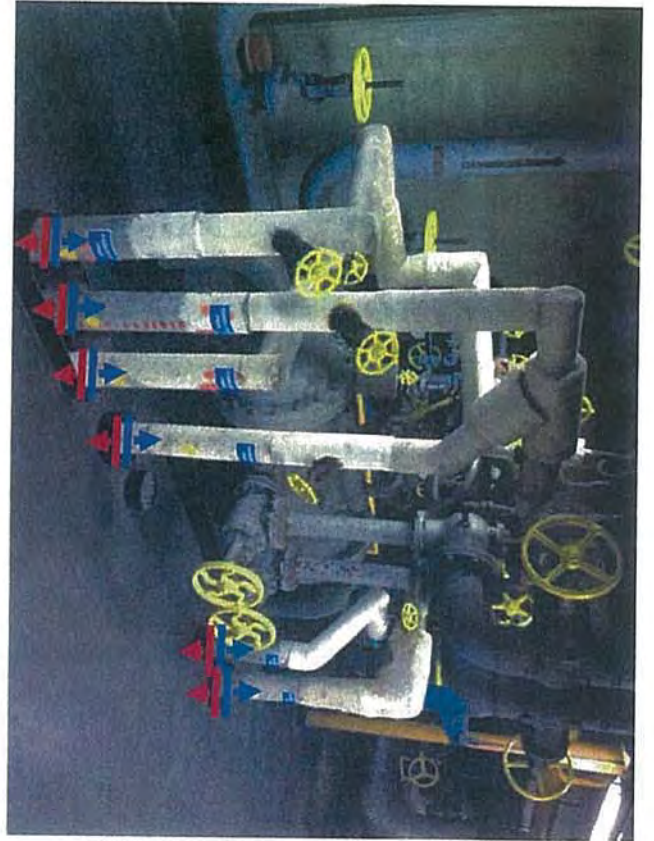
Ground Floor—F2—View of Pipes Along Staircase



Ground Floor—A3—View of Condenser



Ground Floor—A3—View of Condenser



Ground Floor—B3—View of Air Eject Pipes; Asbestos (red)/Non-Asbestos (blue) Junction



Ground Floor—B3—HP Heater and Pipes; Asbestos (red)/Non-Asbestos (blue) (Junction)



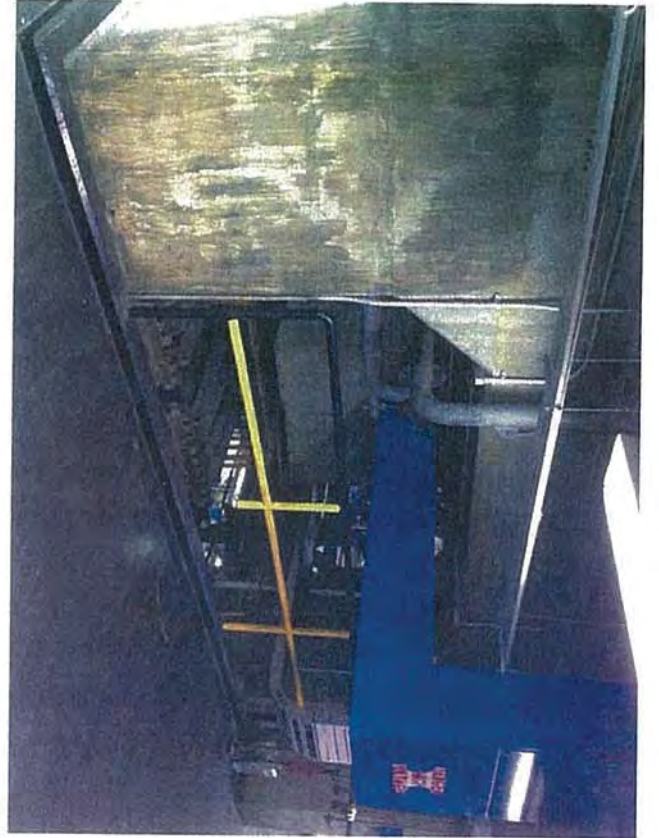
Ground Floor—B3—View HP Heater and Pipes



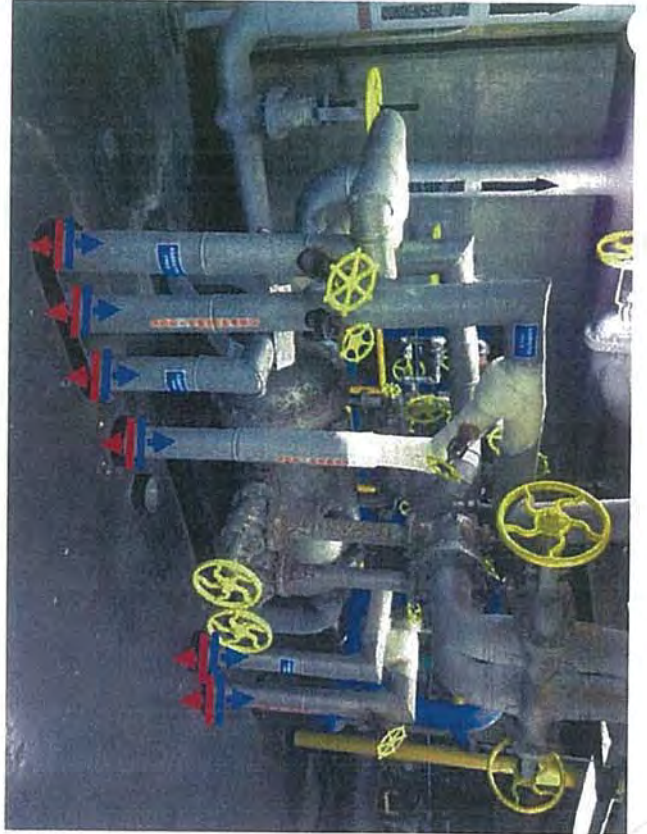
Ground Floor—B3—View of Condenser/HP Heater Pipes



Ground Floor—C3—View of Crane Access



Ground Floor—D3—View of Condenser



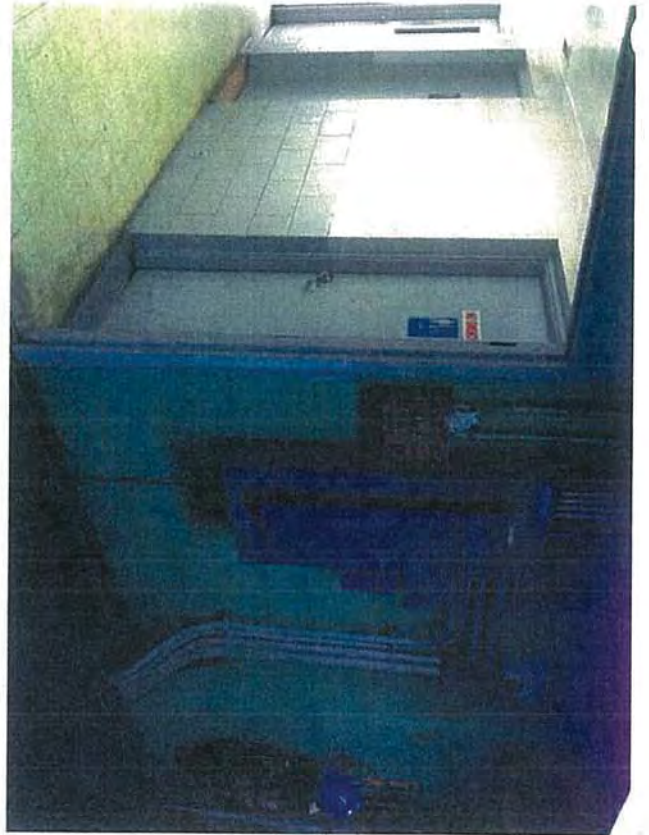
Ground Floor—E3—View of Air Eject Pipes; Asbestos (red)/Non-Asbestos (blue)



Ground Floor—A3—View of Air Eject Overhead Pipe; Asbestos (red)/Non-Asbestos (blue) Junction



Ground Floor—F3—View of Crane Access



Ground Floor—View of Hallway and Restroom Door



Ground Floor—View of Hallway/Main Entrance



Ground Floor—View of High Voltage Panels



Ground Floor—View of High Voltage Panels, Office Wall

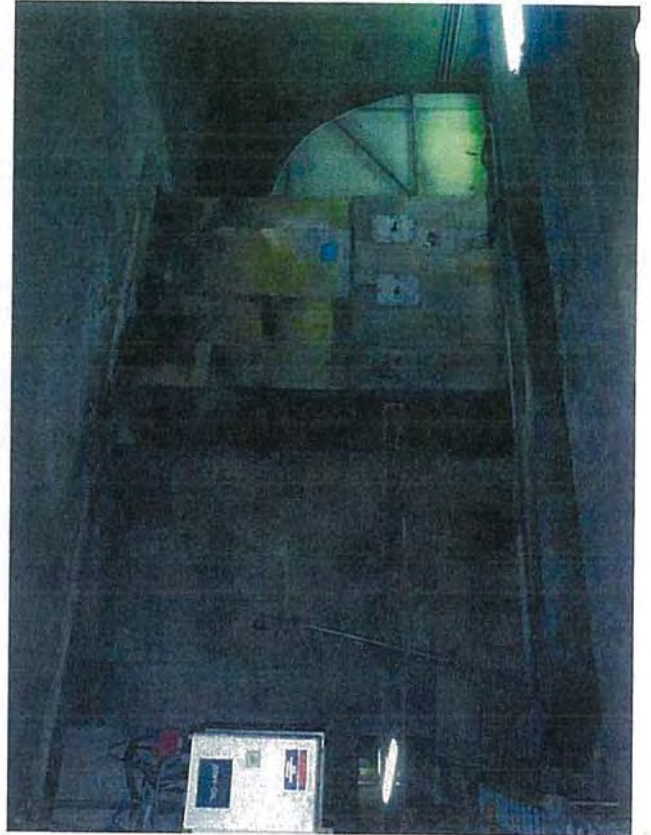




Turbine Deck—A1—View of 480V Panels, CST



Turbine Deck—A1—View of Pipe Originating from Fuel Oil Pump (Ground Floor)



Turbine Deck—B1—View of APH Duct



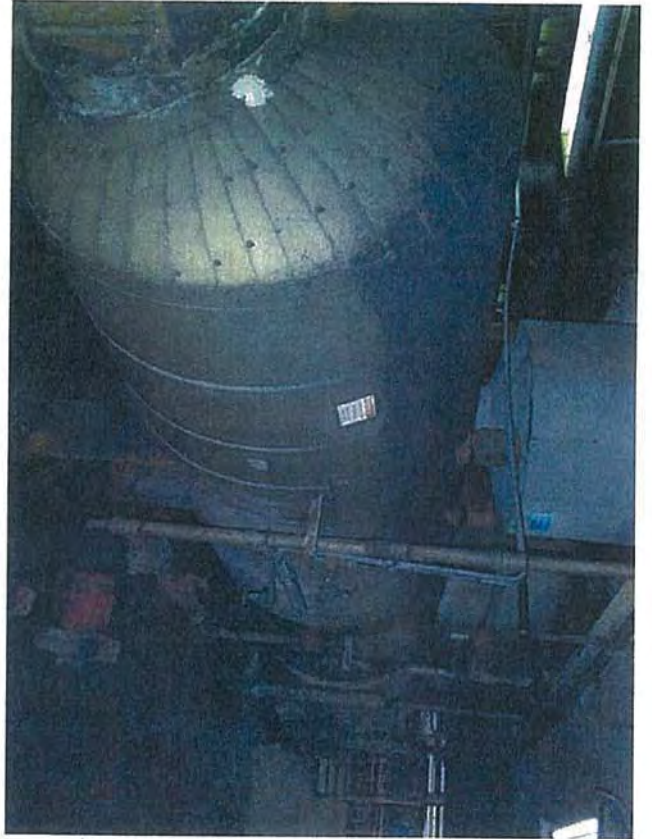
Turbine Deck—B1—View of Boiler, Pipes



Turbine Deck—B1—View of Boiler, Pipes, Boiler Hatch, Tank Vent Pipe (right)



Turbine Deck—B1—View of Boiler, Pipes, Boiler Hatch



Turbine Deck—C1—View of Evaporator & Pipes



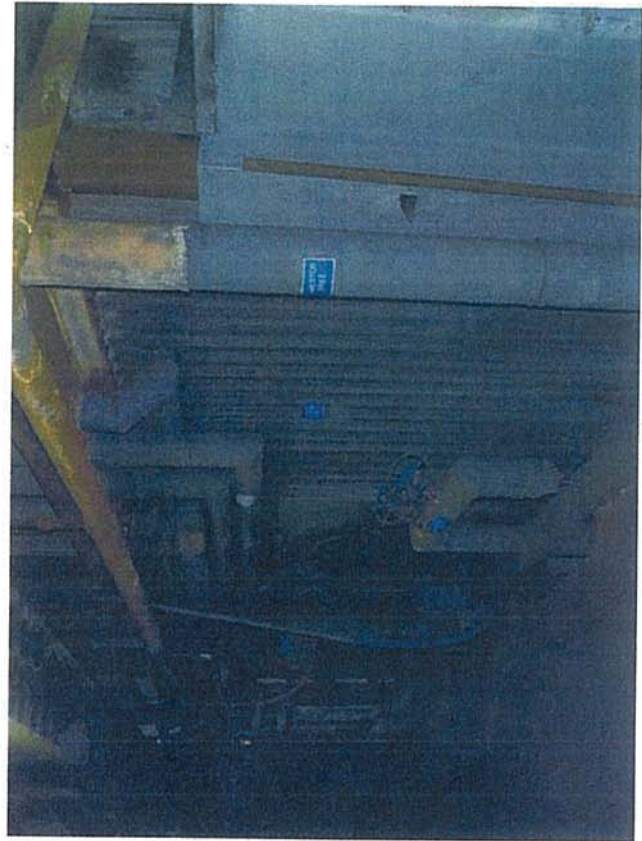
Turbine Deck—C1—View of Evaporator & Pipes



Turbine Deck—C1—View of Evaporator, Pipes, and Valves



Turbine Deck—E1—View of APH Duct



Turbine Deck—E1—View of Boiler and Pipes



Turbine Deck—E1—View of Boiler



Turbine Deck—E1—View of Tank Vent and Boiler



Turbine Deck—D1—View of 480V Panel, CST



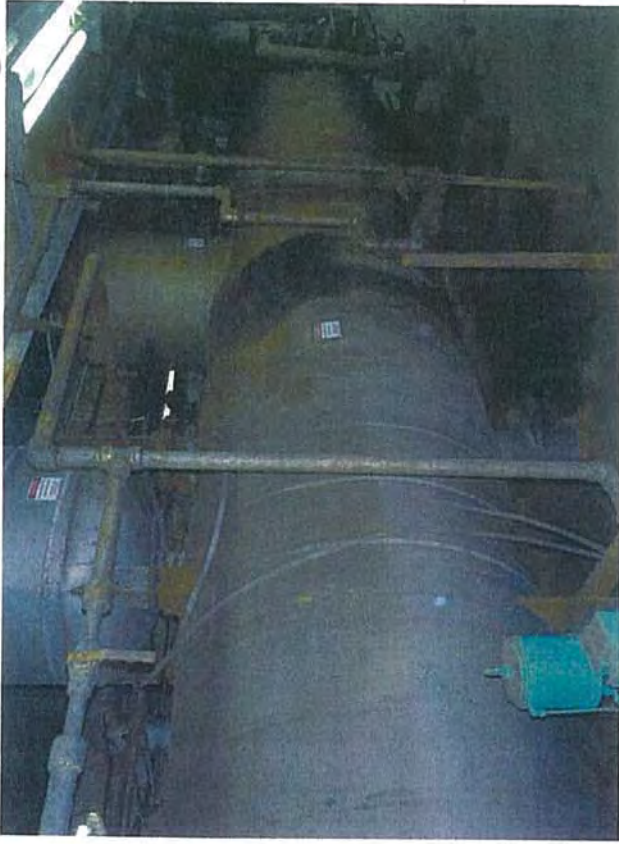
Turbine Deck—D1—View of Pipe Originating from Fuel Oil Pump



Turbine Deck—A2—View of Turbine Generator



Turbine Deck—A2—View of Main Steam Line



Turbine Deck—F1—View of Evaporator and Pipes



Turbine Deck—E1—View of Evaporator, Pipes, and Valves



Turbine Deck—F1—View of Evaporator



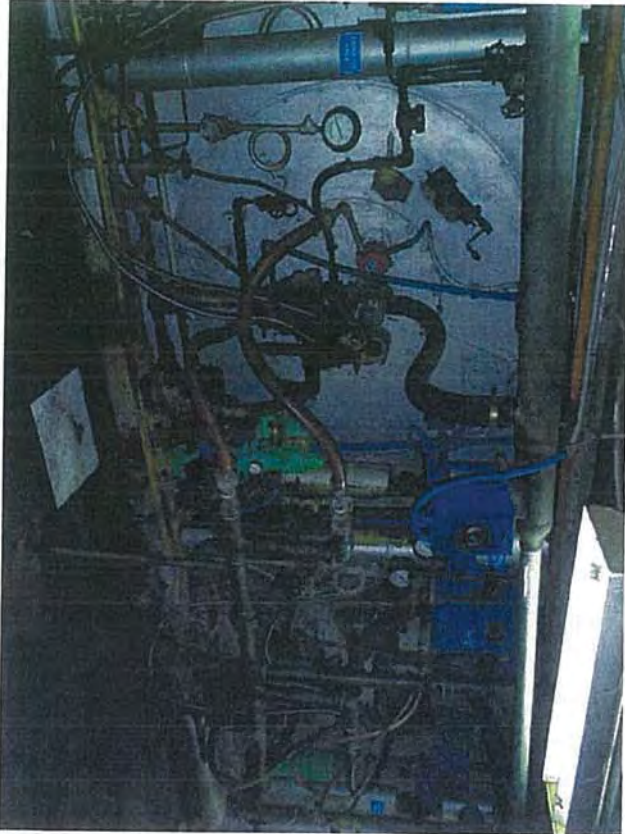
Turbine Deck—F1—View of Evaporator and Pipes



Turbine Deck—B2—View of Boiler and Pipes



Turbine Deck—B2—View of Boiler and Pipes



Turbine Deck—B2—View of Boiler and Pipes



Turbine Deck—B2—View of Boiler and Pipes

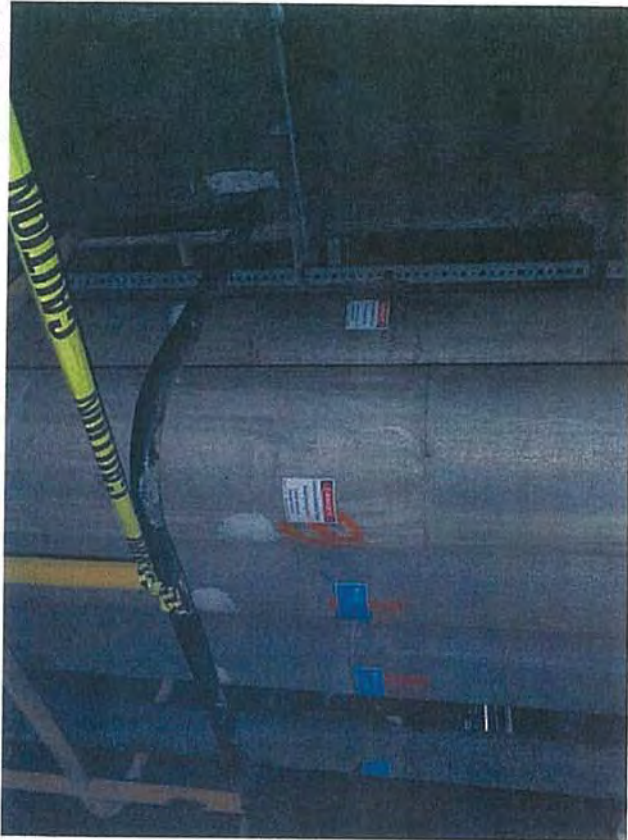




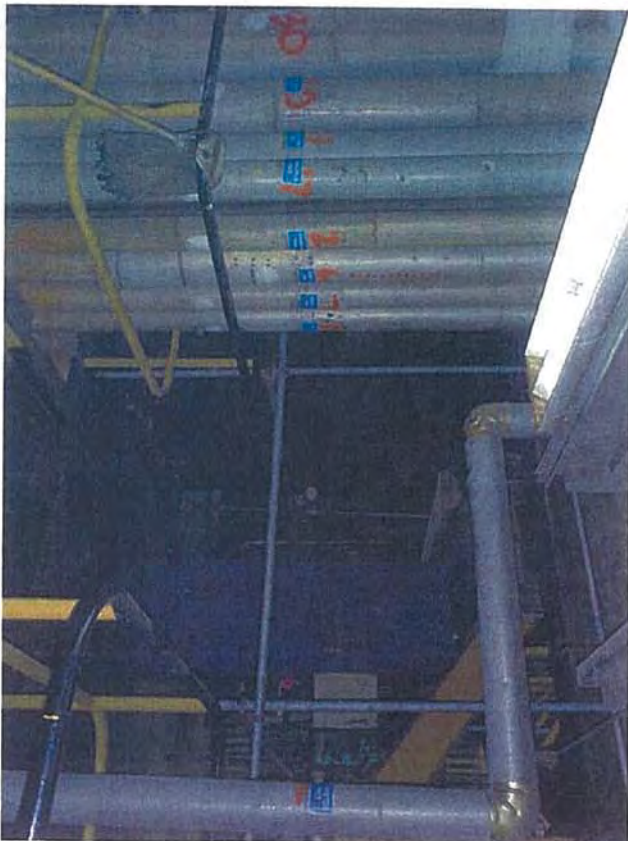
Turbine Deck—C2—View of Evaporator and Pipes along Staircase Originating from Lower Levels



Turbine Deck—C2—View of Pipes along Staircase Originating from Lower Levels



Turbine Deck—C2—View of Pipes along Staircase Originating from Lower Levels



Turbine Deck—C2—View of Pipes along Staircase Originating from Lower Levels



Turbine Deck—D2—View of Main Steam Line



Turbine Deck—E2—View of Boiler and Pipes



Turbine Deck—E2—View of Boiler and Pipes



Turbine Deck—E2—View of Turbine Generator



Turbine Deck—F2—View of Evaporator and Pipes along Staircase Originating from Lower Levels



Turbine Deck—F2—View of Pipes along Staircase Originating from Lower Levels



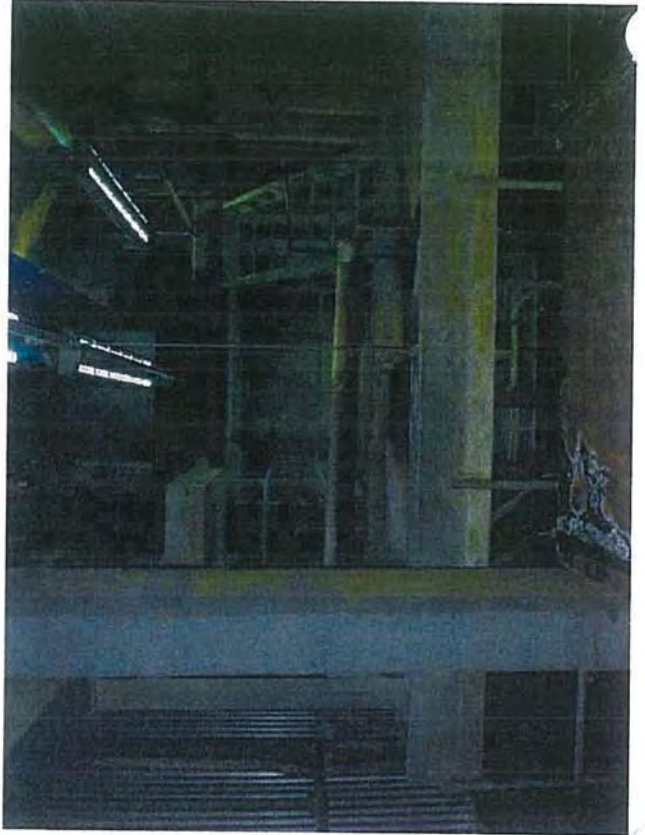
Turbine Deck—F2—View of Pipes along Staircase Originating from Lower Levels



Turbine Deck—F2—View of Pipes along Staircase Originating from Lower Levels



Turbine Deck—View of High Voltage Panels



Mezzanine Deck—A1—View of ACT and FD Fan



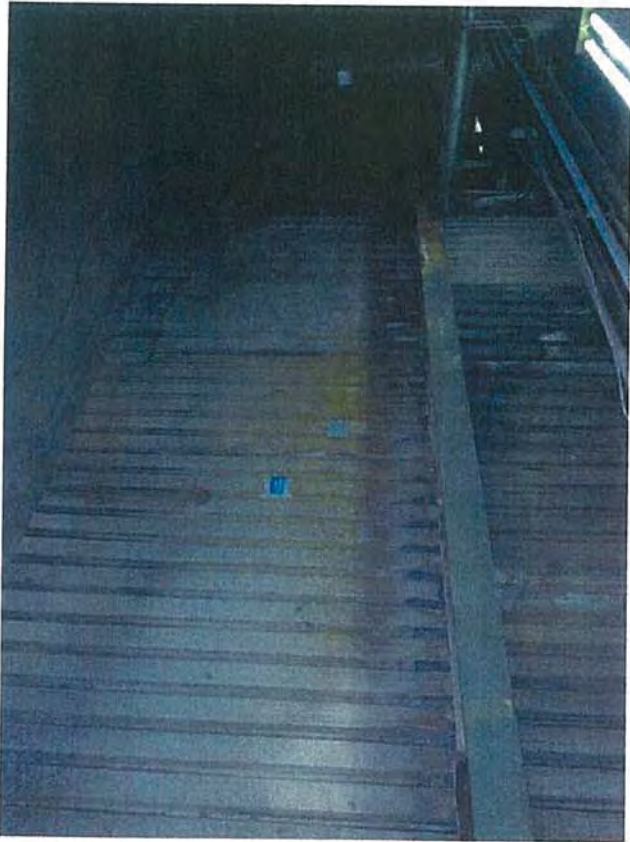
Mezzanine Deck—A1—View of Pipe from Fuel Oil Pump (Originating from Ground Floor)



Mezzanine—B1—View of Boiler and Pipes



Mezzanine—B1—View of APH Duct



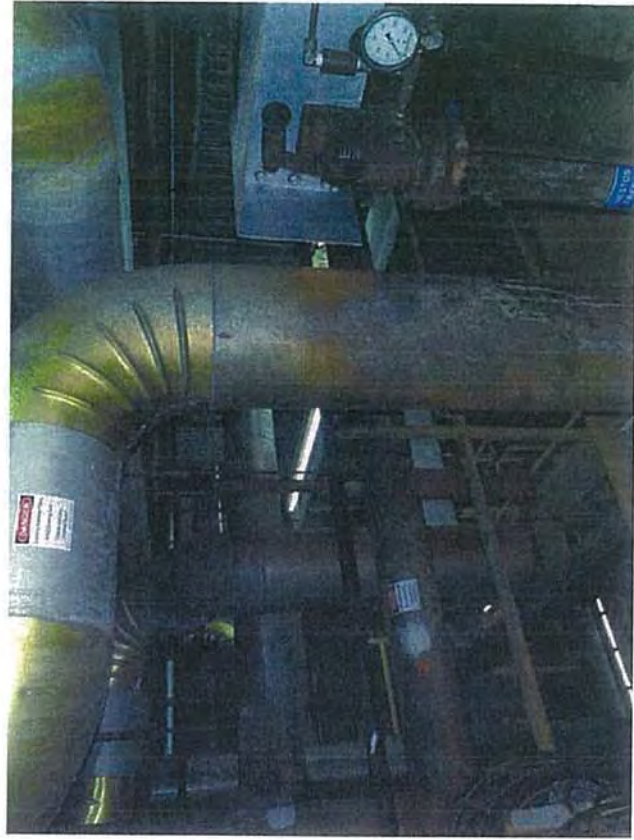
Mezzanine—B1—View of Boiler and Tank Vent



Mezzanine—B1—View of Boiler and Tank Vent (right)



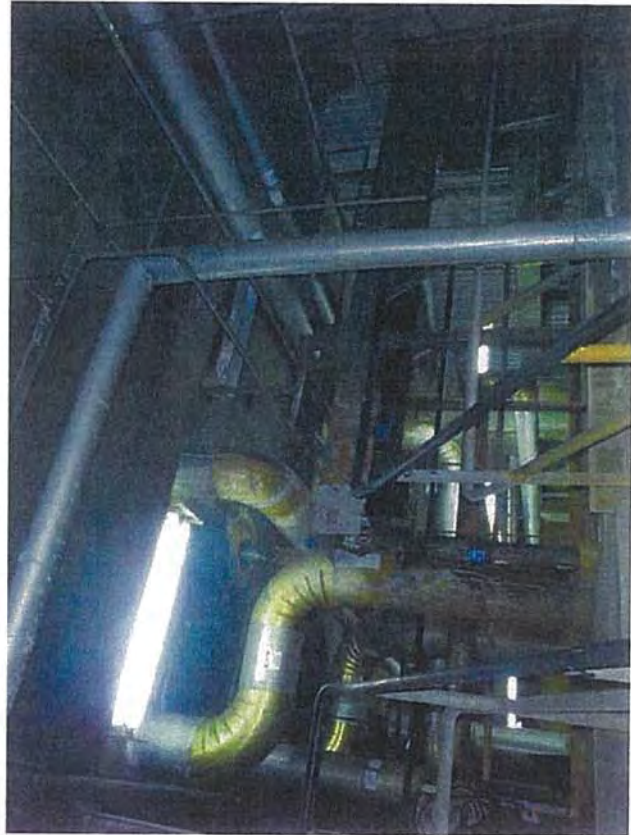
Mezzanine—C1—View of Pipes above Evaporator



Mezzanine—C1—View of Pipes of Upper Mezzanine Level



Mezzanine—C1—View of Mezzanine Level and Top Portion of Evaporator



Mezzanine—C1—View of Pipes of Upper Mezzanine Level





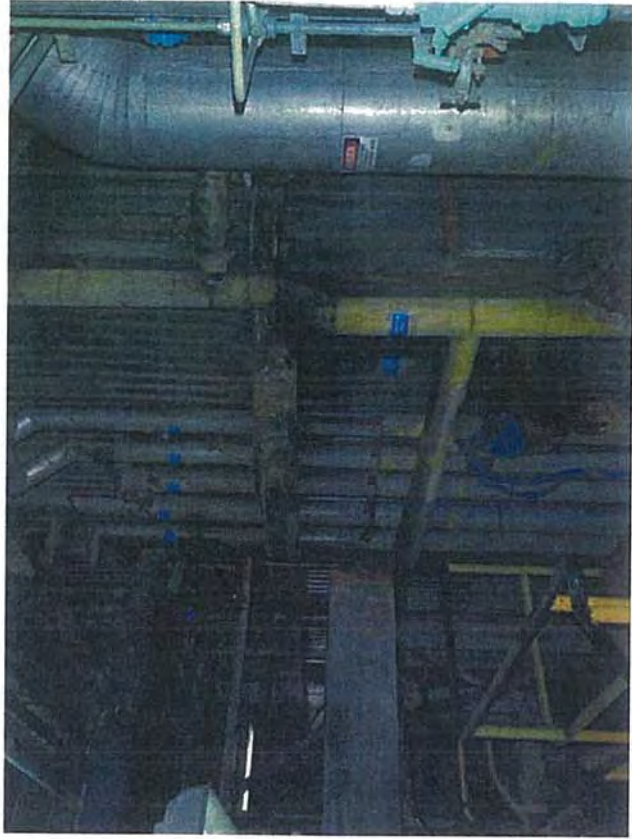
Mezzanine —D1—View of Upper Mezzanine Pipes



Mezzanine —D1—View of Pipe from Fuel Oil Pump (Originating from Ground Floor)



Mezzanine — E1 — View of Boiler and Pipes



Mezzanine — E1 — View of Boiler, Pipes, and Tank Vent (right)



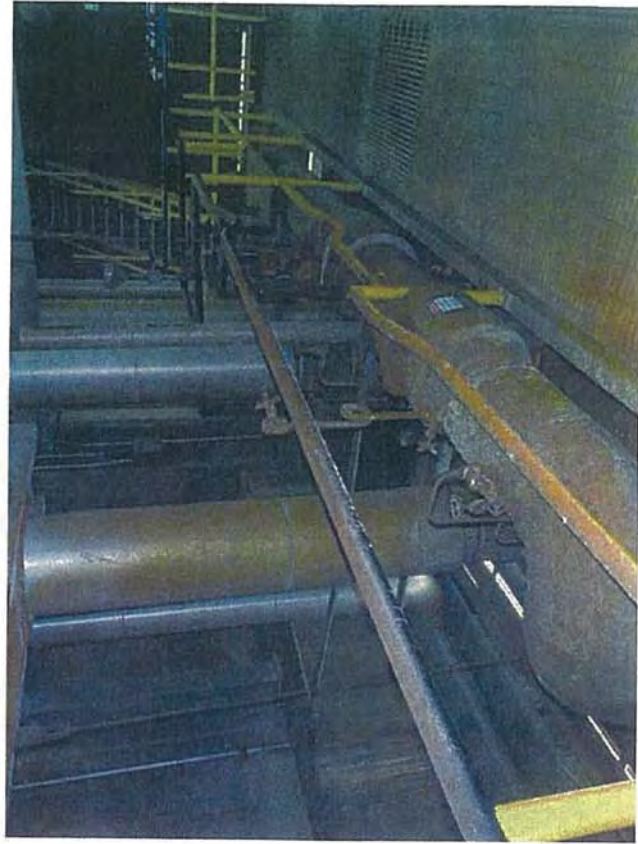
Mezzanine — E1 — View of APH Duct



Mezzanine — E1 — View of APH Duct, Boiler, Tank Vent



Mezzanine—E1—View of Pipes of Upper Mezzanine Deck, Boiler Pipes



Mezzanine—E1—View of Pipes above Evaporator



Mezzanine—E1—View of Upper Mezzanine Deck



Mezzanine—E1—View of Pipes of Upper Mezzanine Deck



Mezzanine—A2—View of Main Steam Line



Mezzanine — B2 — View of Boiler



Mezzanine—B2—View of Boiler & Pipes; Asbestos (Red)/Non-Asbestos (Blue) Junction



Mezzanine—B2—View of Boiler



Mezzanine—B2—View of Boiler Pipes



Mezzanine—C2—View of Pipes Along Staircase (Originating from Lower Levels)



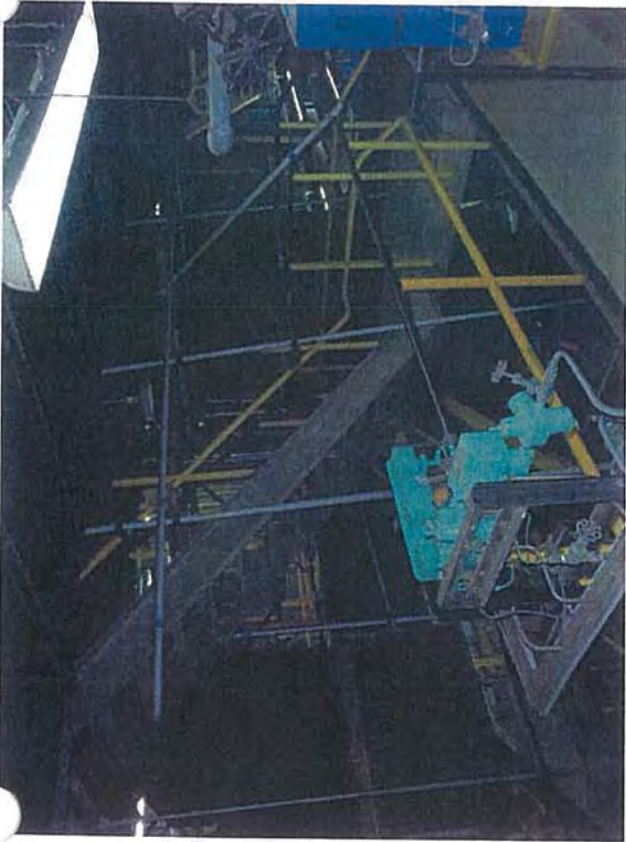
Mezzanine—C2—View of Pipes above Evaporator



Mezzanine—C2—View of Pipes Along Staircase (Originating from Lower Levels)



Mezzanine—C2—View of Pipes Along Staircase (Originating from Lower Levels)



Mezzanine—D2—View of Staircase



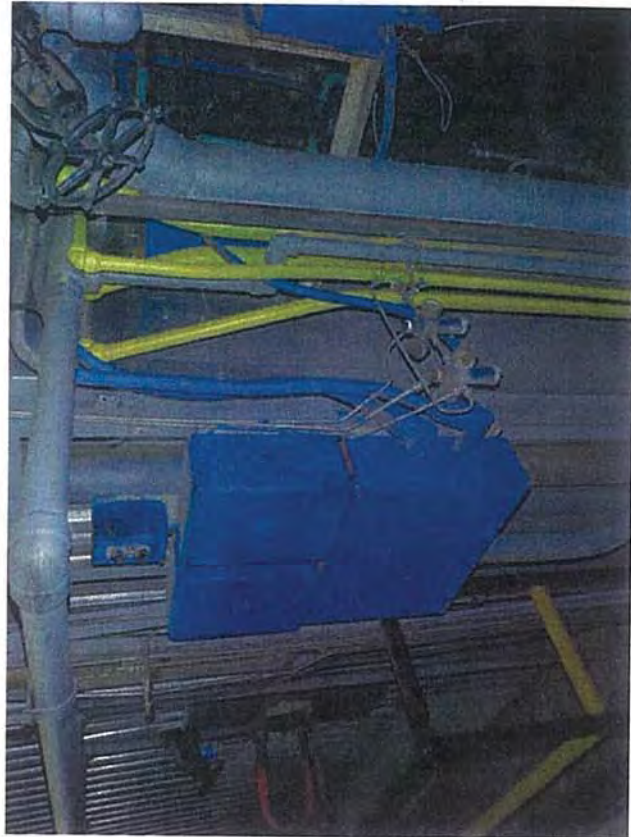
Mezzanine—E2—View of Boiler and Pipes



Mezzanine—E2—View of Boiler and Pipes

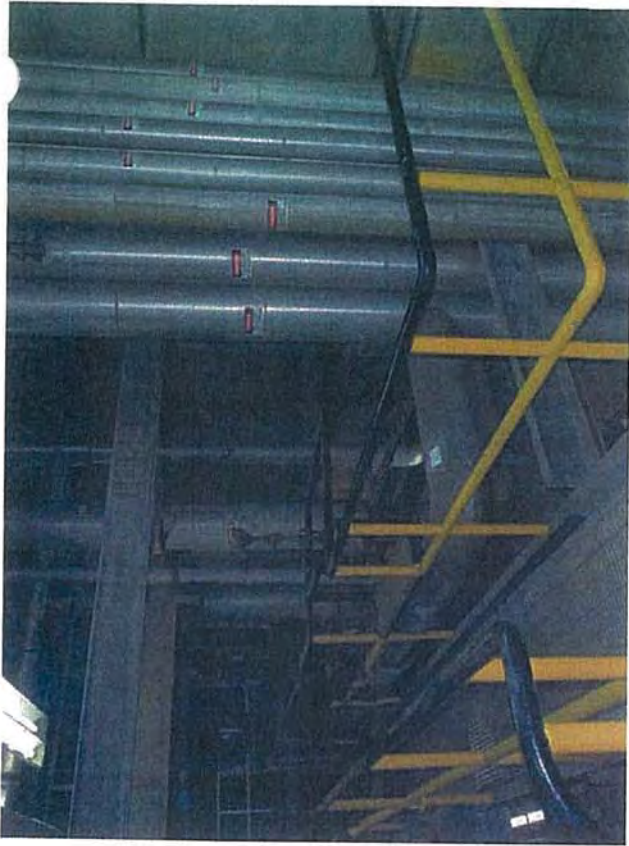


Mezzanine—E2—View of Boiler and Pipes



Mezzanine—E2—View of Boiler and Pipes





Mezzanine—F2—View of Pipes Along Staircase (Originating from Lower Levels),  
Pipes above Evaporator



Mezzanine—F2—View of Pipes Along Staircase (Originating from Lower Levels)



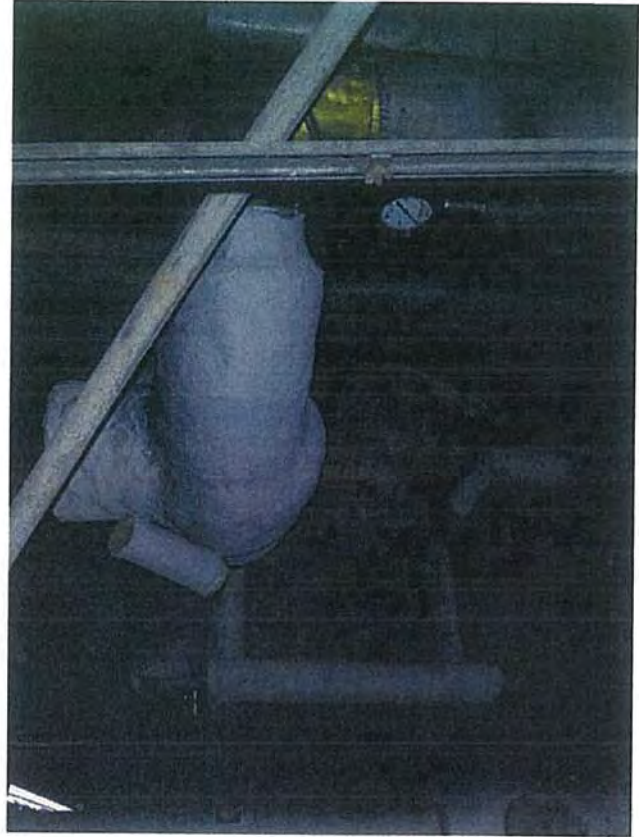
Mezzanine—View of Open Area of Mezzanine/Control Room



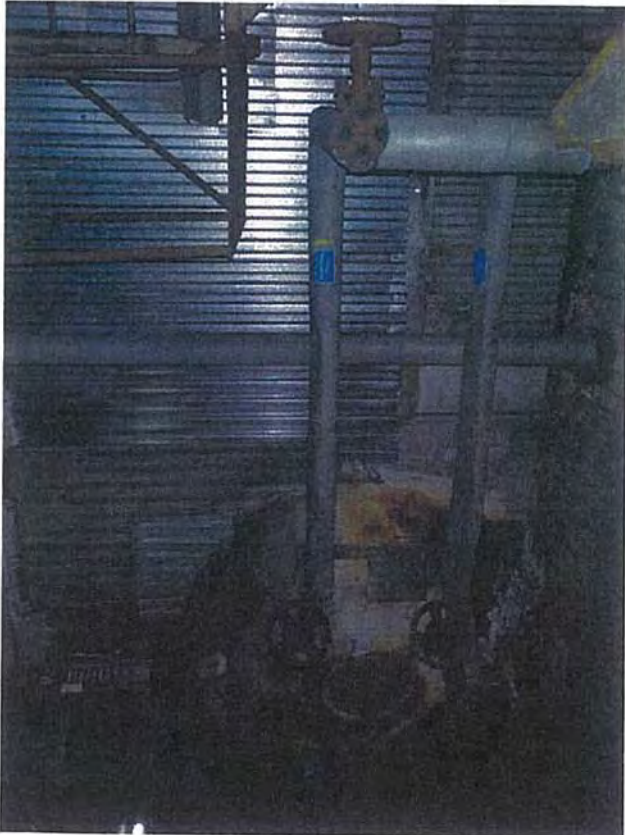
Drum Deck—A1—View of Pipe from Fuel Oil Pump from Ground Floor



Drum Deck—B1—View of APH Duct



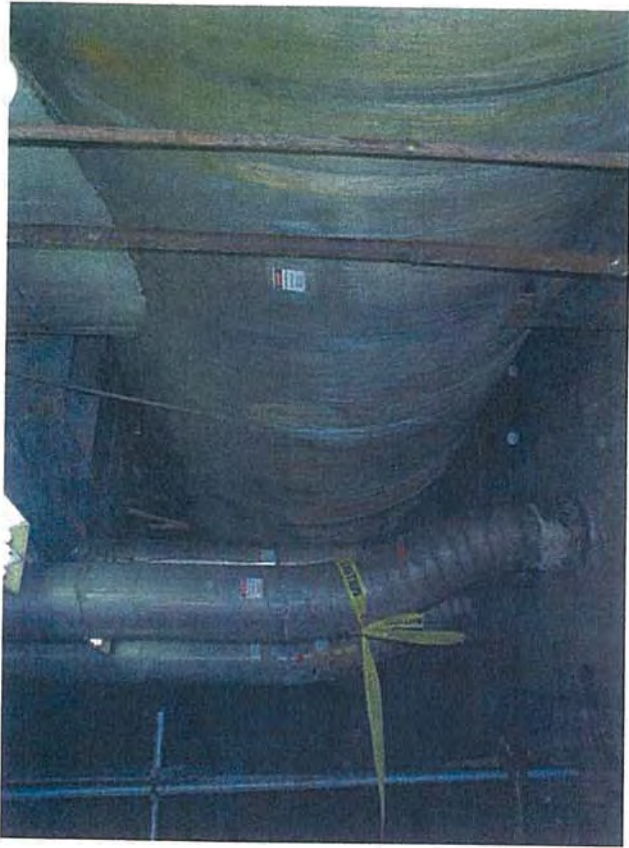
Drum Deck—B1—View of Boiler, Pipes, and Boiler Hatch



Drum Deck—B1—View of Boiler, Pipes, and Boiler Hatch



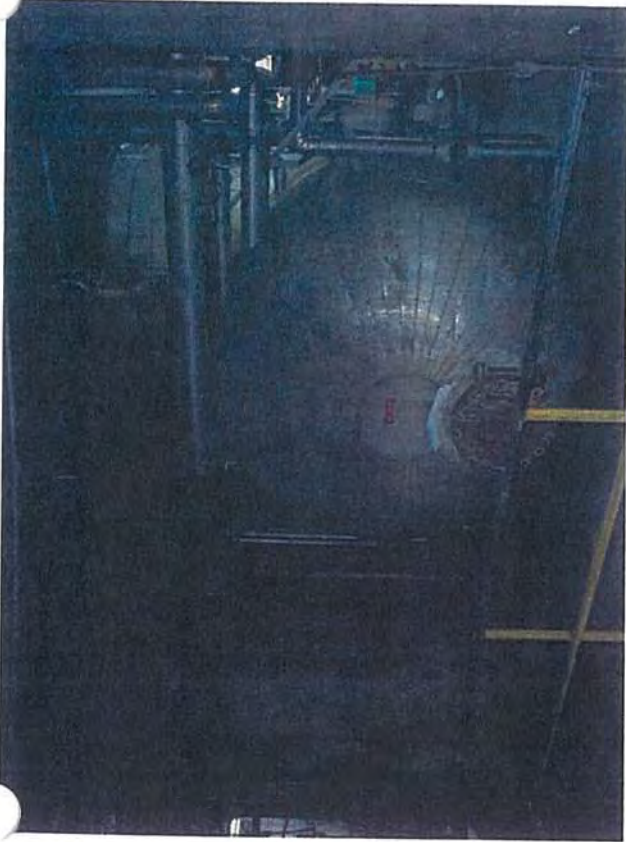
Drum Deck—B1—View of Boiler, Pipes, Tank Vent (left, Non-Asbestos only on Drum Deck)



Drum Deck—C1—View of Deaerator Tank and Vent Pipes



Drum Deck—C1—View of Pipes above Deaerator Tank



Drum Deck—C1—View of Deaerator Tank and Pipes



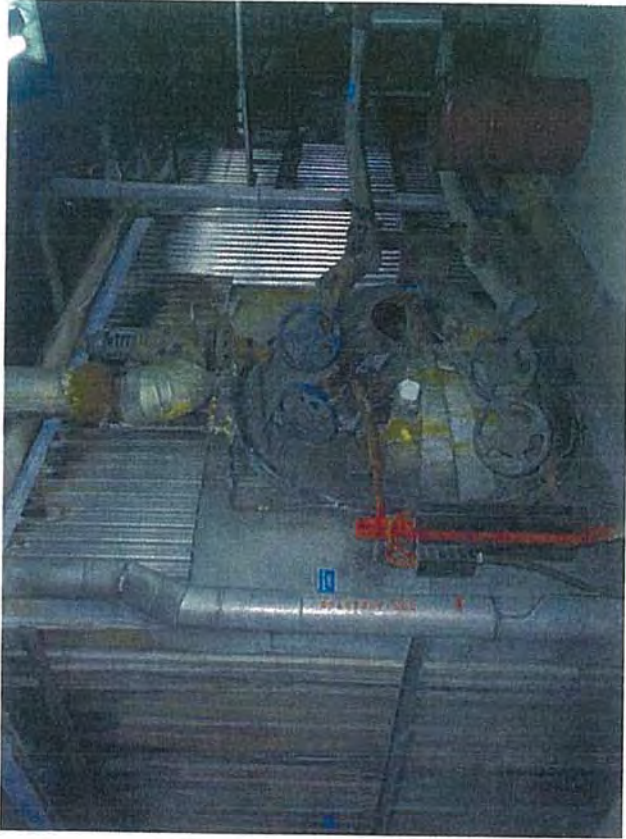
Drum Deck—C1—View of Deaerator Tank and Pipes



Drum Deck—C1—View of Pipes above Deaerstor Tank



Drum Deck—D1—View of FD Fan and ACT



Drum Deck—E1—View of Boiler, Pipes, and Boiler Hatch



Drum Deck—E1—View of Boiler, Pipes, and Boiler Hatch

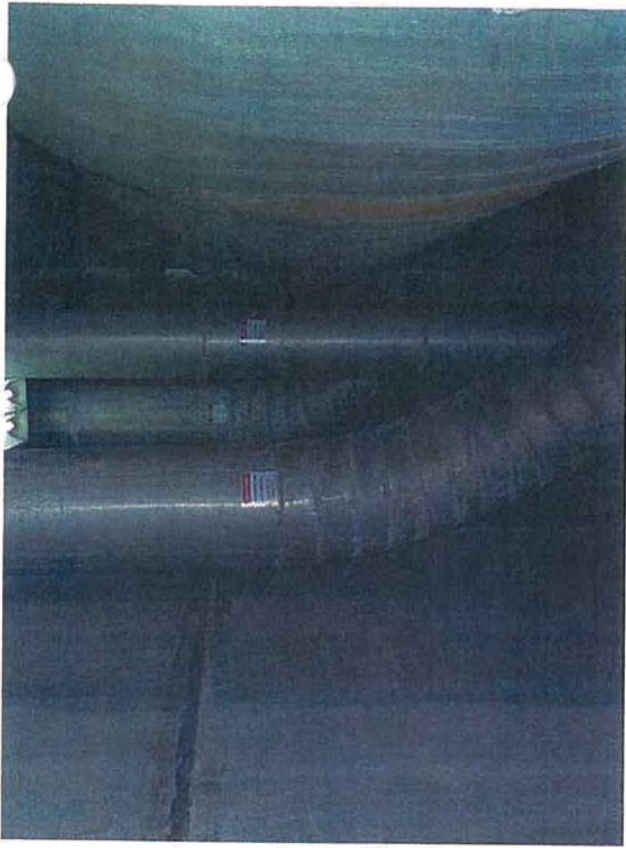


Drum Deck—E1—View of APH Duct



Drum Deck—E1—View of Boiler, Pipes, and Tank Vent (left, Non-Asbestos only on Drum Deck)





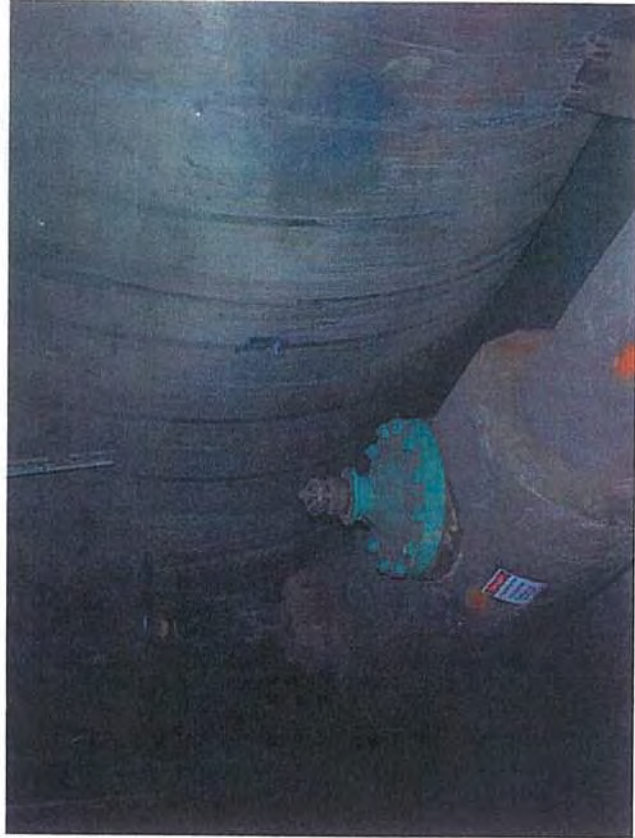
Drum Deck—F1—View of Deaerator Tank and Vent Pipes



Drum Deck—F1—View of Pipes above Deaerator Tank



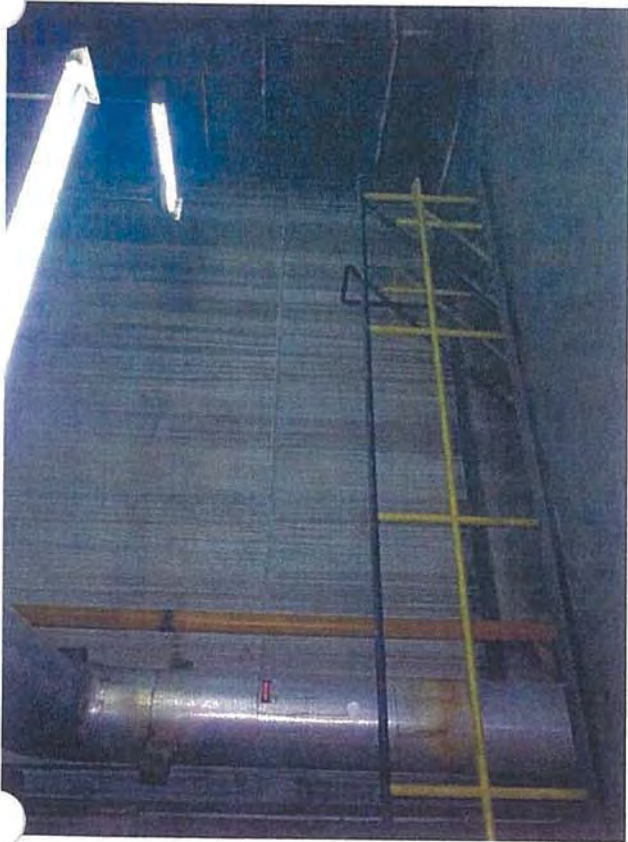
Drum Deck—F1—View of Deaerator Tank and Pipes



Drum Deck—F1—View of Deaerator Tank and Pipes



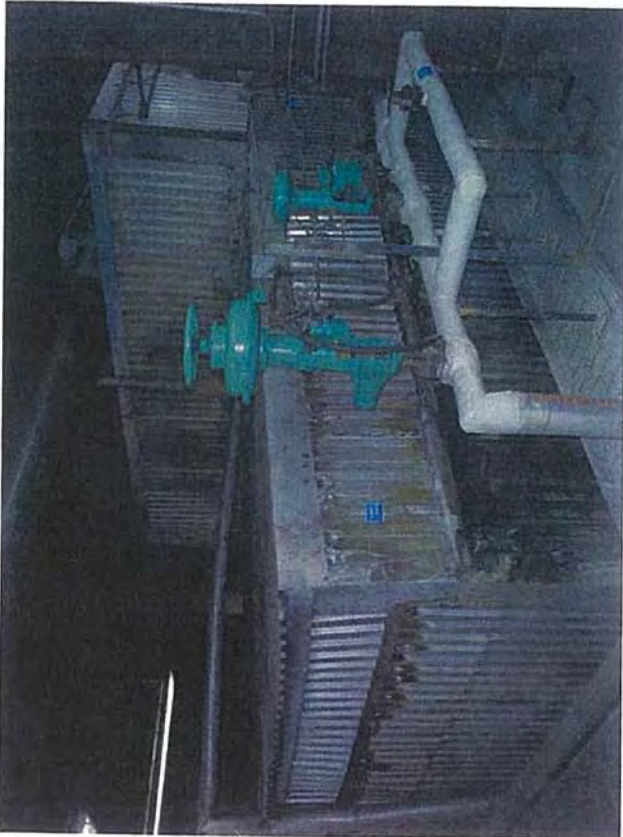
Drum Deck—F1—View of Pipes above Deaerator Tank



Drum Deck—A2—View of Main Steam Line



Drum Deck—B2—View of Boiler



Drum Deck—B2—View of Boiler



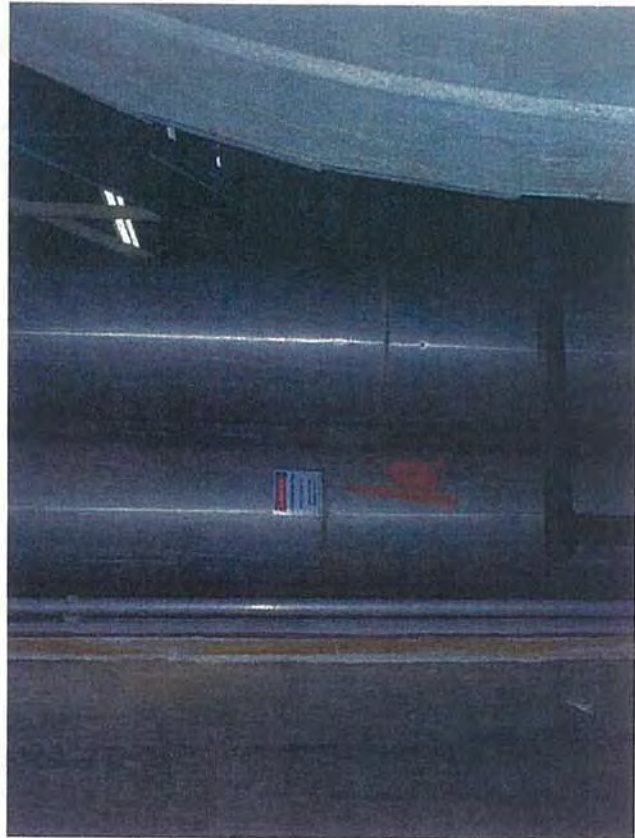
Drum Deck—C2—View of Pipes Along Staircase (Originating from Lower Levels)



Drum Deck—C2—View of Deaerator Tank and Pipes



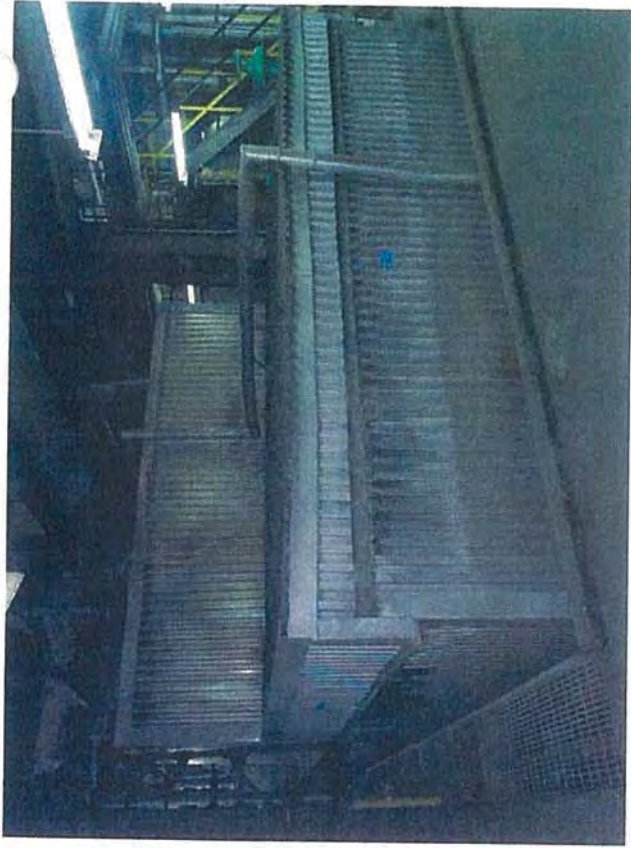
Drum Deck—C2—View of Pipes Along Staircase (Originating from Lower Levels)



Drum Deck—C2—View of Pipes Along Staircase (Originating from Lower Levels)



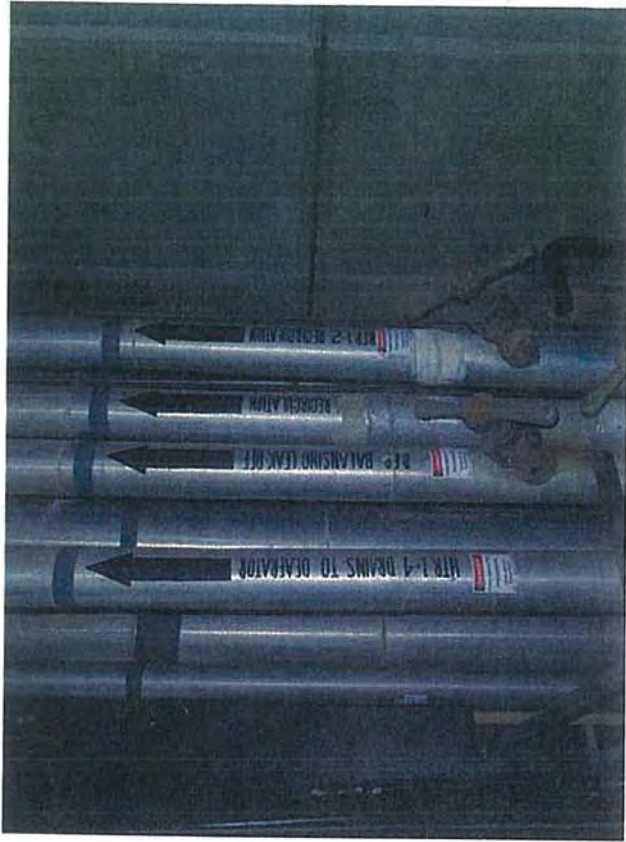
Drum Deck—D2—View of Ducts



Drum Deck—E2—View of Boiler



Drum Deck—E2—View of Boiler



Drum Deck—F2—View of Pipes Along Staircase (Originating from Lower Levels)



Drum Deck—F2—View of Pipes Along Staircase (Originating from Lower Levels)



Drum Deck—F2—View of Pipes Along Staircase (Originating from Lower Levels)



Drum Deck—F2—View of Pipes Along Staircase (Originating from Lower Levels)





Drum Deck—View of Open Area of Drum Deck

# **APPENDIX C**

## **ASBESTOS LABORATORY REPORTS AND CHAIN-OF- CUSTODY FORMS**

# SCHNEIDER LABORATORIES GLOBAL

INCORPORATED

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## LABORATORY ANALYSIS REPORT

Asbestos Identification by EPA Method<sup>1</sup> 600/R-93/116, EPA 600/M4-82-020

<b>ACCOUNT #:</b>	2755-13-1196	<b>DATE COLLECTED:</b>	6/25/2013
<b>CLIENT:</b>	Industrial Hygiene Professionals, Inc.	<b>DATE RECEIVED:</b>	7/1/2013
<b>ADDRESS:</b>	P. O. Box 5086	<b>DATE ANALYZED:</b>	7/2/2013
	Hagatna, GU 96913	<b>DATE REPORTED:</b>	7/2/2013
<b>PROJECT NAME:</b>	GPA Tango (1Of4)		
<b>JOB LOCATION:</b>	GPA Tango Unit 2		
<b>PROJECT NO.:</b>			
<b>PO NO.:</b>		<b>SampleType:</b>	BULK

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
A-01	31937800	1A Deaerator Overflow GF C2		
Layer 1:	Powdery Material White, Powdery		3% AMOSITE	97% NON FIBROUS MATERIAL
B-01	31937801	16 HP Steam Blow Down BF C2		
Layer 1:	Powdery Material White, Powdery		3% AMOSITE	97% NON FIBROUS MATERIAL
C-01	31937802	1 Unknown BF C1		
Layer 1:	Powdery Material White, Powdery		3% AMOSITE	97% NON FIBROUS MATERIAL
D-01	31937803	8 Unknown BF B1		
Layer 1:	Powdery Material Gray, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
GROUPED WITH F-01, D-02, D-03				
E-01	31937804	29 Unknown GF C1		
Layer 1:	Fibrous Material Brown, Fibrous		None Detected	90% MINERAL/GLASS WOOL 10% NON FIBROUS MATERIAL
GROUPED WITH K-01, K-02, K-03				

**Total Number of Pages in Report: 5**

Results relate only to samples as received by the laboratory.

Visit [www.slabinc.com](http://www.slabinc.com) for current certifications.

*Samples analyzed by the EPA Test Method are subject to the limitations of light microscopy including matrix interference. Gravimetric reduction and correlative analyses are recommended for all non-friable, organically bound materials. This method has a reporting limit of 1% or greater. Visual estimation contains an inherent range of uncertainty. This report must not be reproduced except in full with the approval of the lab, and must not be used to claim NVLAP or other gov't agency endorsement. The EPA states that any asbestos found in vermiculite is a concern and the sample should be treated as asbestos containing material.*

Account - Workorder 2755-13-1196 (Continued)

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
F-01	31937805	Condenser Hotwell Pipes BF B2		
Layer 1:	Pipe Beige, Fibrous		40% AMOSITE 5% CHRYSOTILE	10% CELLULOSE FIBER 45% NON FIBROUS MATERIAL
GROUPED WITH G-01, M-01				
G-01	31937806	Condenser Hotwell Pipes BF A3		
Layer 1:	Pipe White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
GROUPED WITH F-01, M-01				
H-01	31937807	25 LP Heater 2-2 BR B2		
Layer 1:	Powdery Material White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
GROUPED WITH H-02, H-03				
I-01	31937808	24/4 Valves GF C2		
Layer 1:	Powdery Material White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2:	Soft Material White, Soft		None Detected	100% NON FIBROUS MATERIAL
GROUPED WITH T-01, T-02, T-03				
J-01	31937809	APH Duct FG GF B1		
Layer 1:	Duct Material Yellow, Fibrous		None Detected	90% MINERAL/GLASS WOOL 10% NON FIBROUS MATERIAL
K-01	31937810	29/24 To Condenser/Hotwell GF		
Layer 1:	Powdery Material White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
GROUPED WITH K-02, K-03				
L-01	31937811	32 Main Steam GF A2		
Layer 1:	Powdery Material White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
GROUPED WITH L-02, L-03				
M-01	31937812	Condenser/Hotwell Loop GF A2		
Layer 1:	Powdery Material White, Powdery		3% AMOSITE	97% NON FIBROUS MATERIAL
GROUPED WITH F-01, G-01				

**Total Number of Pages in Report: 5**

Results relate only to samples as received by the laboratory.

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Account - Workorder 2755-13-1196 (Continued)

Page 3 (Continued)

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
N-01	31937813	Diesel Generator Exhaust GF		
Layer 1:	Powdery Material Beige, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
GROUPED WITH N-02, N-03				
O-01	31937814	Fuel Oil Pump Heater GF A1		
Layer 1:	Powdery Material White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
GROUPED WITH O-2, O-3				
P-01	31937815	Boiler Hatch GF B1		
Layer 1:	Powdery Material Gray, Powdery		3% AMOSITE	97% NON FIBROUS MATERIAL
GROUPED WITH AK-01				
Q-01	31937816	Boiler Insulation FG BF B1		
Layer 1:	Insulation Gray, Fibrous		None Detected	90% MINERAL/GLASS WOOL 10% NON FIBROUS MATERIAL
R-01	31937817	HP Heater 2-2 To Condenser GF		
Layer 1:	Powdery Material White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
GROUPED WITH R-02, R-03				
S-01	31937818	37 Fuel Oil Pump To TD GF A1		
Layer 1:	Powdery Material White, Powdery		3% CHRYSOTILE	97% NON FIBROUS MATERIAL
T-01	31937819	5-B FW P BF C1		
Layer 1:	Powdery Material Beige, Powdery		None Detected	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
GROUPED WITH T-02, T-03				
U-01	31937820	Evaporator TD C1		
Layer 1:	Fibrous Material Yellow, Fibrous		None Detected	90% MINERAL/GLASS WOOL 10% NON FIBROUS MATERIAL
GROUPED WITH U-02, U-03, U-04				
V-01	31937821	Boiler Pipes FG TD B1		
Layer 1:	Pipe White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL

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Account - Workorder 2755-13-1196 (Continued)

Page 4 (Continued)

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
W-01	31937822	1A TD C2 Or C1		
Layer 1:	Powdery Material White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
GROUPED WITH A-01				
X-01	31937823	30 TD C2		
Layer 1:	Powdery Material White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
GROUPED WITH X-02, X-03				
Y-01	31937824	10 TD C2		
Layer 1:	Powdery Material White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
GROUPED WITH Y-02, Y-03				
Z-01	31937825	11 TD C2		
Layer 1:	Powdery Material White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
GROUPED WITH Z-02, Z-03, Z-04				
AA-01	31937826	17 TD C2		
Layer 1:	Powdery Material White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
GROUPED WITH AA-02, AA-03				
AB-01	31937827	2 TD C2		
Layer 1:	Powdery Material White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
GROUPED WITH AB-02, AB-03, AB-04				
AC-01	31937828	6 TD C2		
Layer 1:	Powdery Material White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
GROUPED WITH AC-02, AC-03, AC-04				
AD-01	31937829	7 TD C2		
Layer 1:	Powdery Material White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
GROUPED WITH AD-02, AD-03, AD-04				
AE-01	31937830	18 TD C2		
Layer 1:	Powdery Material White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
GROUPED WITH AE-02, AE-03				

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Account - Workorder 2755-13-1196 (Continued)

Page 5 (Continued)

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
AF-01	31937831	Turbine Generator FG TD B2		
Layer 1:	Fibrous Material Yellow, Fibrous		None Detected	90% MINERAL/GLASS WOOL 10% NON FIBROUS MATERIAL
AG-01	31937832	30 To Evaporator MD C1		
Layer 1:	Powdery Material White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
GROUPED WITH X-01, X-02, X-03				
AH-01	31937833	Overhead Pipe Boiler To UMD MD		
Layer 1:	Pipe White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
GROUPED WITH AH-02, AH-03				
AI-01	31937834	DA Tank End DD C1		
Layer 1:	Powdery Material White, Powdery		None Detected	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
GROUPED WITH AI-02, AI-03, AI-04, AI-05				
AJ-01	31937835	Unknown DD C1		
Layer 1:	Powdery Material White, Powdery		None Detected	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
GROUPED WITH AJ-02, AJ-03				
AK-01	31937836	Boiler Hatch DD A1		
Layer 1:	Fibrous Material Beige, Fibrous		None Detected	40% CELLULOSE FIBER 40% MINERAL/GLASS WOOL 20% NON FIBROUS MATERIAL
GROUPED WITH P-01				

*Mohammed Hashim*

*Hind Eldanaf*

Analyst: **MOHAMMED B. HASHIM**

Reviewed By: **Hind Eldanaf, Microscopy Supervisor**

Total Number of Pages in Report: 5

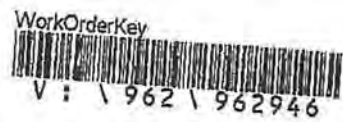
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Submitting Co. <b>INDUSRTRIAL HYGIENE PROFESSIONALS, INC.</b>	Lab Use- WO # <b>2755-13-1196</b>	Acct#	Phone #	<b>671 734-0749</b>
P.O. BOX 5086 HAGATNA, GU 96932			Fax # & E-mail	<b>671 734-0749 JMFHP@GUAM.NET</b>
Project Name: <b>GPA Tango (1 of 4)</b>			Special Instructions [Include requests for special reporting or data packages]	
Project Location: <b>GPA Tango Unit 2</b>			<b>37</b>	
Project Number:			State Of Collection <b>GUAM</b>	
PO Number:			2755	

Turn Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input checked="" type="checkbox"/> 1 business day* <input type="checkbox"/> 2 business day* <input type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests Schedule rush organics, multi-metals &amp; weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input checked="" type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input type="checkbox"/> Soil	<b>Asbestos Air / Fiber Counts</b> <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/> <b>Miscellaneous Tests</b> <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500)	<b>Asbestos Bulk / Asb ID</b> <input checked="" type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.1/A1.6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield)	<b>Metals-Total Conc.</b> <input type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> <b>Metals-Extract</b> <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) <input type="checkbox"/> Others

Sample #	Date Sampled	Time Sampled	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wiped Area (ft²)	Type <sup>1</sup> A,B,P,E	Time <sup>2</sup>		Flow Rate <sup>3</sup>		Total <sup>4</sup> Air Vol
						Start	Stop	Start	Stop	
A-01	6/25/13		1a-Deaerator Overflow-GF-C2							
B-01	6/25/13		16-HP Steam Blow Down-BF-C2							
C-01	6/25/13		1-Unknown-BF-C1							
D-01	6/25/13		8-Unknown-BF-B1							
E-01	6/25/13		29-Unknown-GF-C1							
F-01	6/26/13		Condenser Hotwell Pipes-BF-B2							
G-01	6/26/13		Condenser Hotwell Pipes-BF-A3							
H-01	6/26/13		25-LP Heater 2-2 - BF-B2							
I-01	6/26/13		24/4 - Valves - GF-C2							
J-01	6/26/13		APH Duct FG - GF- B1							
K-01	6/26/13		29/24 to Condenser/Hotwell-GF-B2							
L-01	6/26/13		32-Main Steam-GF-A2							

<sup>1</sup>Type: A=area B=blank P=personal E=excursion    <sup>2</sup>Beginning/End of Sample Period    <sup>3</sup>Pump Calibration in Liters/Minute    <sup>4</sup>Volume in Liters (time in min \* flow in L/min)

Sampled by NAME <u>Franco Quintans</u> SIGNATURE <u>[Signature]</u> DATE/TIME <u>6/25-27/13</u>	Relinquished to lab by NAME <u>Franco Quintans</u> SIGNATURE <u>[Signature]</u> DATE/TIME <u>6/28/13</u>	<input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: _____
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P.O. BOX 5086 HAGAYNA, GU 96932	Acct# <b>2755</b>		

Project Name: **GPA Tango (2 of 4)** Special Instructions [Include requests for special reporting or data packages]  
 Project Location: **GPA Tango Unit 2**  
 Project Number:  
 PO Number: State Of Collection **GUAM**

Turn Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input checked="" type="checkbox"/> 1 business day* <input type="checkbox"/> 2 business day* <input type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals &amp; weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input checked="" type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> HI-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> HI-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipes, Composite <input type="checkbox"/> Sludge <input type="checkbox"/> Soil	<b>Asbestos Air / Fiber Counts</b> <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II)	<b>Asbestos Bulk / Asb ID</b> <input checked="" type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.1/4/8 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield)	<b>Metals-Total Conc.</b> <input type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <b>Metals-Extract</b> <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) <b>Others</b>
		<b>Miscellaneous Tests</b> <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500)	<b>FOR ASBESTOS AIR:</b> TYPE OF RESPIRATOR USED:	

Sample #	Date Sampled	Time Sampled	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wiped Area (ft²)	Type <sup>1</sup> A,B,P,E	Time <sup>2</sup>		Flow Rate <sup>3</sup>		Total <sup>4</sup> Air Vol
						Start	Stop	Start	Stop	
M-01	6/26/13		Condenser/Hotwell Loop-GF-A2							
N-01	6/26/13		Diesel Generator Exhaust-GF							
O-01	6/26/13		Fuel Oil Pump Heater - GF - A1							
P-01	6/26/13		Boiler Hatch - GF - B1							
Q-01	6/26/13		Boiler Insulation (FG) - GF - B1							
R-01	6/27/13		HP Heater 2-2 to Condenser-GF-B2							
S-01	6/27/13		37-Fuel Oil Pump to TD - GF - A1							
T-01	6/27/13		5-B FW P - BF - C1							
U-01	6/27/13		Evaporator - TD - C1							
V-01	6/27/13		Boiler Pipes (FG) - TD - B1							
W-01	6/27/13		1a - TD - C2 or C1							
X-01	6/27/13		30 - TD - C2							

<sup>1</sup>Type: A=area B=blank P=personal E=excursion <sup>2</sup>Beginning/End of Sample Period <sup>3</sup>Pump Calibration in Liters/Minute <sup>4</sup>Volume in Liters [time in min \* flow in L/min]

Sampled by NAME <u>Franco Quintans</u> SIGNATURE DATE/TIME <u>6/25-27/13</u>	Relinquished to lab by NAME <u>Franco Quintans</u> SIGNATURE DATE/TIME <u>6/28/13</u>	<input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: _____
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Lab Use-WO # **2755**  
Phone # **671 734-0749**  
Fax # & E-mail **671 734-0749 JMFHP@GUAM.NET**

Project Name: **GPA Tango (3 of 4)** Special Instructions [include requests for special reporting or data packages]  
Project Location: **GPA Tango Unit 2**  
Project Number:  
PO Number: State Of Collection **GUAM**

Turn Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input checked="" type="checkbox"/> 1 business day* <input type="checkbox"/> 2 business day* <input type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals &amp; weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input checked="" type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input type="checkbox"/> Soil	<b>Asbestos Air / Fiber Counts</b> <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/> _____ <b>Miscellaneous Tests</b> <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> _____	<b>Asbestos Bulk / Asb ID</b> <input checked="" type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.11.41.6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/> _____ <b>FOR ASBESTOS AIR:</b> TYPE OF RESPIRATOR USED:	<b>Metals-Total Conc:</b> <input type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> _____ <b>Metals-Extract</b> <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) <input type="checkbox"/> _____ <b>Others</b> <input type="checkbox"/> _____

Sample #	Date Sampled	Time Sampled	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wiped Area (ft <sup>2</sup> )	Type <sup>1</sup> A,B,P,E	Time <sup>2</sup>		Flow Rate <sup>3</sup>		Total <sup>4</sup> Air Vol
						Start	Stop	Start	Stop	
Y-01	6/27/13		10 - TD - C2							
Z-01	6/27/13		11 - TD - C2							
AA-01	6/27/13		17 - TD - C2							
AB-01	6/27/13		2 - TD - C2							
AC-01	6/27/13		6 - TD - C2							
AD-01	6/27/13		7 - TD - C2							
AE-01	6/27/13		18 - TD - C2							
AF-01	6/27/13		Turbine Generator (FG) - TD - B2							
AG-01	6/27/13		30 to Evaporator - MD - C1							
AH-01	6/27/13		Overhead Pipe-Boiler to UMD-MD-C1							
AI-01	6/27/13		DA Tank End - DD - C1							
AJ-01	6/27/13		Unknown - DD - C1							

<sup>1</sup>Type: A=area B=blank P=personal E=excursion <sup>2</sup>Beginning/End of Sample Period <sup>3</sup>Pump Calibration in Liters/Minute <sup>4</sup>Volume in Liters (time in min \* flow in L/min)

Sampled by NAME <b>Franco Quintans</b> SIGNATURE DATE/TIME <b>6/25-27/13</b>	Relinquished to lab by NAME <b>Franco Quintans</b> SIGNATURE DATE/TIME <b>6/28/13</b>	<input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: _____
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P.O. BOX 5085 HAGATNA, GU 96932		Fax # & E-mail <b>671 734-0749 JMFHP@GUAM.NET</b>	

Project Name: <b>GPA Tango (4 of 4)</b>	Special Instructions [include requests for special reporting or data packages]
Project Location: <b>GPA Tango Unit 2</b>	
Project Number:	
PO Number:	State Of Collection <b>GUAM</b>

<b>Turn Around Time</b> <input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input checked="" type="checkbox"/> 1 business day* <input type="checkbox"/> 2 business day* <input type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals &amp; weekend tests in advance.</small>	<b>Matrix / Sample Type (Select ONE)</b> <small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input checked="" type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input type="checkbox"/> <input type="checkbox"/> Soil <input type="checkbox"/>	<b>Tests / Analytes (Select ALL that Apply)</b> <table border="1"> <tr> <td> <b>Asbestos Air / Fiber Counts</b>  <input type="checkbox"/> PCM (NIOSH 7400)  <input type="checkbox"/> TEM (AHERA)  <input type="checkbox"/> TEM (EPA Level II)  <input type="checkbox"/>  <b>Miscellaneous Tests</b>  <input type="checkbox"/> Total Dust (NIOSH 0500)  <input type="checkbox"/> Resp. Dust (NIOSH 0600)  <input type="checkbox"/> Silica - FTIR (NIOSH 7602)  <input type="checkbox"/> Silica - XRD (NIOSH 7500)  <input type="checkbox"/> </td> <td> <b>Asbestos Bulk / Asb ID</b>  <input checked="" type="checkbox"/> PLM (EPA 600/R-93/116)  <input type="checkbox"/> PLM (EPA Point Count)  <input type="checkbox"/> PLM (Qualitative only)  <input type="checkbox"/> NYELAP 198.11.A1.6  <input type="checkbox"/> CAELAP (EPA Interim)  <input type="checkbox"/> TEM (Chalfield) </td> <td> <b>Metals-Total Conc.</b>  <input type="checkbox"/> Lead  <input type="checkbox"/> RCRA Metals  <input type="checkbox"/>  <b>Metals-Extract</b>  <input type="checkbox"/> TCLP / Lead  <input type="checkbox"/> TCLP / RCRA Metals  <input type="checkbox"/> TCLP / Full (w/ organics)  <b>Others</b>  <input type="checkbox"/> </td> </tr> </table>	<b>Asbestos Air / Fiber Counts</b> <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/> <b>Miscellaneous Tests</b> <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/>	<b>Asbestos Bulk / Asb ID</b> <input checked="" type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.11.A1.6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chalfield)	<b>Metals-Total Conc.</b> <input type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> <b>Metals-Extract</b> <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) <b>Others</b> <input type="checkbox"/>
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**FOR ASBESTOS AIR:**  
 TYPE OF RESPIRATOR USED:

Sample #	Date-Sampled	Time Sampled	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wiped Area (ft²)	Type <sup>1</sup> A,B,P,E	Time <sup>2</sup>		Flow Rate <sup>3</sup>		Total <sup>4</sup> Air Vol
						Start	Stop	Start	Stop	
AK-01	6/27/13		Boller Hatch - DD - A1							

<sup>1</sup>Type: A=area B=blank P=personal E=excursion    <sup>2</sup>Beginning/End of Sample Period    <sup>3</sup>Pump Calibration in Liters/Minute    <sup>4</sup>Volume in Liters [time in min \* flow in L/min]

Sampled by NAME <u>Franco Quintans</u> SIGNATURE DATE/TIME <u>6/25-27/13</u>	Relinquished to lab by NAME <u>Franco Quintans</u> SIGNATURE DATE/TIME <u>6/28/13</u>	<input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: _____
---	--	--

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## LABORATORY ANALYSIS REPORT

Asbestos Identification by EPA Method: 600/R-93/116, EPA 600/M4-82-020

**ACCOUNT #:** 2755-13-1201  
**CLIENT:** Industrial Hygiene Professionals, Inc.  
**ADDRESS:** P. O. Box 5086  
Hagatna, GU 96913  
**PROJECT NAME:** GPA Tango  
**JOB LOCATION:** GPA Tango Unit 2  
**PROJECT NO.:**  
**PO NO.:**

**DATE COLLECTED:** 7/9/2013  
**DATE RECEIVED:** 7/12/2013  
**DATE ANALYZED:** 7/14/2013  
**DATE REPORTED:** 7/15/2013

**SampleType:** BULK

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
D-02	31950263	8&9-BF-B2		
Layer 1:	Powdery Material Pink, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
D-03	31950264	8&9-BF-B2		
Layer 1:	Powdery Material White, Powdery		15% AMOSITE	85% NON FIBROUS MATERIAL
H-02	31950265	LP Heater-BF-B3		
Layer 1:	Powdery Material White, Powdery		None Detected	10% CELLULOSE FIBER 90% NON FIBROUS MATERIAL
H-03	31950266	LP Heater-BF-B2		
Layer 1:	Powdery Material White, Powdery		15% AMOSITE	85% NON FIBROUS MATERIAL
K-02	31950267	24/29 To Condenser-GF-B2		
Layer 1:	Powdery Material White, Powdery		10% AMOSITE	90% NON FIBROUS MATERIAL

**Total Number of Pages in Report: 9**

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Account - Workorder 2755-13-1201 (Continued)

Page 2 (Continued)

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
K-03	31950268	29 Pipe-GF-C1		
Layer 1:	Powdery Material White, Powdery		None Detected	100% NON FIBROUS MATERIAL
L-02	31950269	32 Main Steam-TD-A2		
Layer 1:	Powdery Material White, Powdery		3% CHRYSOTILE 10% AMOSITE	87% NON FIBROUS MATERIAL
L-03	31950270	32 Main Steam-DD-A2		
Layer 1:	Powdery Material White, Powdery		5% AMOSITE	95% NON FIBROUS MATERIAL
N-02	31950271	Generator Exhaust-GF		
Layer 1:	Powdery Material Pink, Powdery		None Detected	10% CELLULOSE FIBER 90% NON FIBROUS MATERIAL
N-03	31950272	Generator Exhaust-GF		
Layer 1:	Powdery Material Pink, Powdery		None Detected	8% CELLULOSE FIBER 92% NON FIBROUS MATERIAL
O-02	31950273	Fuel Oil Pump Pipe-GF-A1		
Layer 1:	Pipe Material White, Powdery		None Detected	10% CELLULOSE FIBER 90% NON FIBROUS MATERIAL
O-03	31950274	Fuel Oil Pump Pipe-GF-A1		
Layer 1:	Pipe Material White, Powdery		None Detected	10% CELLULOSE FIBER 90% NON FIBROUS MATERIAL
R-02	31950275	HP Htrs To Condenser-GF-B2		
Layer 1:	Powdery Material White, Powdery		12% AMOSITE	88% NON FIBROUS MATERIAL
R-03	31950276	HP Htrs To Condenser-GF-B3		
Layer 1:	Powdery Material White, Powdery		8% AMOSITE	92% NON FIBROUS MATERIAL

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Account - Workorder 2755-13-1201 (Continued)

Page 3 (Continued)

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
T-02	31950277	4&5-BF-C1		
Layer 1:	Powdery Material White, Powdery		None Detected	10% CELLULOSE FIBER 90% NON FIBROUS MATERIAL
T-03	31950278	4,5,20,21,22 Valves-GF-B2		
Layer 1:	Powdery Material White, Powdery		5% CHRYSOTILE 10% AMOSITE	85% NON FIBROUS MATERIAL
U-02	31950279	Evaporator & Pipes-TD-C1		
Layer 1:	Powdery Material White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
U-03	31950280	Evaporator & Pipes-TD-C1		
Layer 1:	Powdery Material White, Powdery		8% AMOSITE	92% NON FIBROUS MATERIAL
U-04	31950281	Evaporator & Pipes-TD-C1		
Layer 1:	Powdery Material White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
X-02	31950282	30 To Condenser-GF-B2		
Layer 1:	Powdery Material White, Powdery		10% AMOSITE	90% NON FIBROUS MATERIAL
X-03	31950283	30-DD-C2		
Layer 1:	Powdery Material White, Powdery		4% AMOSITE	96% NON FIBROUS MATERIAL
Y-02	31950284	10-BF-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
Y-03	31950285	10-GF-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL

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Account - Workorder 2755-13-1201 (Continued)

Page 4 (Continued)

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
Z-02	31950286	11-BF-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Z-03	31950287	11-GF-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	4% CELLULOSE FIBER 96% NON FIBROUS MATERIAL
Z-04	31950288	11-DD-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	6% CELLULOSE FIBER 94% NON FIBROUS MATERIAL
AA-02	31950289	17-GF-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	4% CELLULOSE FIBER 96% NON FIBROUS MATERIAL
AA-03	31950290	17-DD-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	4% CELLULOSE FIBER 96% NON FIBROUS MATERIAL
AB-02	31950291	2-BF-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
AB-03	31950292	2-GF-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
AB-04	31950293	2-DD-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
AC-02	31950294	6-BF-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL

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Account - Workorder 2755-13-1201 (Continued)

Page 5 (Continued)

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
AC-03	31950295	6-GF-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
AC-04	31950296	6-DD-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
AD-02	31950297	7-BF-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
AD-03	31950298	7-GF-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
AD-04	31950299	7-DD-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
AE-02	31950300	18-BF-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	4% CELLULOSE FIBER 96% NON FIBROUS MATERIAL
AE-03	31950301	18-GF-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	4% CELLULOSE FIBER 96% NON FIBROUS MATERIAL
AG-02	31950302	30 To Evaporator-MD-C1		
Layer 1:	Powdery Material White, Powdery		7% AMOSITE	93% NON FIBROUS MATERIAL
AG-03	31950303	30 To Evaporator-MD-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	12% CELLULOSE FIBER 88% NON FIBROUS MATERIAL

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Account - Workorder 2755-13-1201 (Continued)

Page 6 (Continued)

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
AH-02	31950304	Overhead Pipe To UMD-MD-C1		
Layer 1:	Powdery Material Pink, Powdery		None Detected	12% CELLULOSE FIBER 88% NON FIBROUS MATERIAL
AH-03	31950305	Overhead Pipe To UMD-UMD-C1		
Layer 1:	Powdery Material White, Powdery		None Detected	8% CELLULOSE FIBER 92% NON FIBROUS MATERIAL
AI-02	31950306	DA Tank & Pipes-DD-C1		
Layer 1:	Powdery Material White, Powdery		None Detected	6% CELLULOSE FIBER 94% NON FIBROUS MATERIAL
AI-03	31950307	DA Tank & Pipes-DD-C1		
Layer 1:	Powdery Material White, Powdery		10% AMOSITE	90% NON FIBROUS MATERIAL
AI-04	31950308	DA Tank & Pipes-DD-C1		
Layer 1:	Powdery Material White, Powdery		8% AMOSITE	92% NON FIBROUS MATERIAL
AI-05	31950309	DA Tank & Pipes-DD-C1		
Layer 1:	Powdery Material White, Powdery		7% AMOSITE	93% NON FIBROUS MATERIAL
AJ-02	31950310	Unknown Pipes-DD-C1		
Layer 1:	Powdery Material White, Powdery		10% AMOSITE	90% NON FIBROUS MATERIAL
AJ-03	31950311	Unknown Pipes-DD-C1		
Layer 1:	Powdery Material White, Powdery		8% AMOSITE	92% NON FIBROUS MATERIAL
CF-01	31950312	3-BF-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	4% CELLULOSE FIBER 96% NON FIBROUS MATERIAL

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Account - Workorder 2755-13-1201 (Continued)

Page 7 (Continued)

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
CF-02	31950313	3-BF-C1		
Layer 1:	Powdery Material White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
CF-03	31950314	3-GF-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	4% CELLULOSE FIBER 96% NON FIBROUS MATERIAL
CG-01	31950315	14&15-BF-B2		
Layer 1:	Powdery Material White, Powdery		None Detected	4% CELLULOSE FIBER 96% NON FIBROUS MATERIAL
CG-02	31950316	14&15-BF-A2		
Layer 1:	Powdery Material White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
CG-03	31950317	14&15-BF-B2		
Layer 1:	Powdery Material White, Powdery		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL
CH-01	31950318	MDR-BF-B2		
Layer 1:	Powdery Material Pink, Powdery		20% CHRYSOTILE	80% NON FIBROUS MATERIAL
CH-02	31950319	MDR27-BF-B2		
Layer 1:	Powdery Material White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
CH-03	31950320	MDR27-GF-B2		
Layer 1:	Powdery Material White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
CI-01	31950321	20-BF-B2		
Layer 1:	Powdery Material White, Powdery		None Detected	4% CELLULOSE FIBER 96% NON FIBROUS MATERIAL

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Account - Workorder 2755-13-1201 (Continued)

Page 8 (Continued)

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
CI-02	31950322	20-GF-B2		
Layer 1:	Powdery Material White, Powdery		None Detected	4% CELLULOSE FIBER 96% NON FIBROUS MATERIAL
CI-03	31950323	20-GF-B2		
Layer 1:	Powdery Material White, Powdery		10% AMOSITE	90% NON FIBROUS MATERIAL
CJ-01	31950324	12-GF-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	4% CELLULOSE FIBER 96% NON FIBROUS MATERIAL
CJ-02	31950325	12-MD-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	4% CELLULOSE FIBER 96% NON FIBROUS MATERIAL
CJ-03	31950326	12-BF-C2		
Layer 1:	Powdery Material Pink, Powdery		None Detected	4% CELLULOSE FIBER 96% NON FIBROUS MATERIAL
CK-01	31950327	36-GF-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	4% CELLULOSE FIBER 96% NON FIBROUS MATERIAL
CK-02	31950328	36-DD-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
CK-03	31950329	36-TD-C2		
Layer 1:	Powdery Material White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
CL-01	31950330	UMD Pipes-UMD-C1		
Layer 1:	Powdery Material White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL

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Account - Workorder 2755-13-1201 (Continued)

Page 9 (Continued)

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
CL-02	31950331	UMD Pipes(Fr Evap)-UMD-C1		
Layer 1:	Powdery Material White, Powdery		None Detected	4% CELLULOSE FIBER 96% NON FIBROUS MATERIAL
CL-03	31950332	UMD Pipes (1)-UMD-C1		
Layer 1:	Powdery Material White, Powdery		None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL




Analyst: **SAMANI ABDEFDANIEL**

Reviewed By: **Alisar Daou, HR**

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*Samples analyzed by the EPA Test Method are subject to the limitations of light microscopy including matrix interference. Gravimetric reduction and correlative analyses are recommended for all non-friable, organically bound materials. This method has a reporting limit of % or greater. Visual estimation contains an inherent range of uncertainty. This report must not be reproduced except in full with the approval of the lab, and must not be used to claim NVLAP or other gov't agency endorsement. The EPA states that any asbestos found in vermiculite is a concern and the sample should be treated as asbestos containing material.*



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804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

WO Lr  
WorkOrderKey  
  
V : \ 964 \ 964868

Submitting Co. <b>INDUSRTRIAL HYGIENE PROFESSIONALS, INC.</b>	Lab Use- WO #	Accl #	Phone # Fax # & E-mail	<b>671 734-0749</b>  <b>671 734-0749</b> <b>JMFIHP@GUAM.NET</b>
P.O. BOX 5086 HAGATNA, GU 96932				

Project Name: **GPA Tango (1 of 6)** *Special Instructions [include requests for special reporting or data packages]*  
 Project Location: **GPA Tango Unit 2**  
 Project Number:  
 PO Number: State Of Collection **GUAM**

Turn Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)						
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input checked="" type="checkbox"/> 2 business day* <input type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals &amp; weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input checked="" type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> HI-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> HI-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input type="checkbox"/> Soil	<table border="0"> <tr> <td> <input type="checkbox"/> Asbestos Air/Fiber Counts  <input type="checkbox"/> PCM (NIOSH 7400)  <input type="checkbox"/> TEM (AHERA)  <input type="checkbox"/> TEM (EPA Level II)                             </td> <td> <input checked="" type="checkbox"/> Asbestos Bulk/Asb-ID  <input checked="" type="checkbox"/> PLM (EPA 600/R-93/116)  <input type="checkbox"/> PLM (EPA Point Count)  <input type="checkbox"/> PLM (Qualitative only)  <input type="checkbox"/> NYELAP 198.11.41.6  <input type="checkbox"/> CAELAP (EPA Interim)  <input type="checkbox"/> TEM (Chafield)                             </td> <td> <input type="checkbox"/> Metals: Total Conc  <input type="checkbox"/> Lead  <input type="checkbox"/> RCRA Metals  <input type="checkbox"/> Metals: Extract  <input type="checkbox"/> TCLP / Lead  <input type="checkbox"/> TCLP / RCRA Metals  <input type="checkbox"/> TCLP / Full (w/ organics)  <input type="checkbox"/> Others                             </td> </tr> <tr> <td colspan="3"> <b>FOR ASBESTOS AIR:</b>                              TYPE OF RESPIRATOR USED:                         </td> </tr> </table>	<input type="checkbox"/> Asbestos Air/Fiber Counts <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II)	<input checked="" type="checkbox"/> Asbestos Bulk/Asb-ID <input checked="" type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.11.41.6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chafield)	<input type="checkbox"/> Metals: Total Conc <input type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> Metals: Extract <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) <input type="checkbox"/> Others	<b>FOR ASBESTOS AIR:</b> TYPE OF RESPIRATOR USED:		
<input type="checkbox"/> Asbestos Air/Fiber Counts <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II)	<input checked="" type="checkbox"/> Asbestos Bulk/Asb-ID <input checked="" type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.11.41.6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chafield)	<input type="checkbox"/> Metals: Total Conc <input type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> Metals: Extract <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) <input type="checkbox"/> Others						
<b>FOR ASBESTOS AIR:</b> TYPE OF RESPIRATOR USED:								

Sample #	Date Sampled	Time Sampled	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wiped Area (ft²)	Type¹ A,B,P,E	Time²		Flow Rate³		Total⁴ Air Vol
						Start	Stop	Start	Stop	
D-02	7/9/10		8&9 - BF - B2							
D-03	7/9/10		8&9 - BF - B2							
H-02	7/9/10		LP HEATER - BF - B3							
H-03	7/9/10		LP HEATER - BF - B2							
K-02	7/9/10		24/29 TO CONDENSER - GF - B2							
K-03	7/9/10		29 PIPE - GF - C1							
L-02	7/9/10		32 MAIN STEAM - TD - A2							
L-03	7/9/10		32 MAIN STEAM - DD - A2							
N-02	7/9/10		GENERATOR EXHAUST - GF							
N-03	7/9/10		GENERATOR EXHAUST - GF							
O-02	7/9/10		FUEL OIL PUMP PIPE - GF - A1							
O-03	7/9/10		FUEL OIL PUMP PIPE - GF - A1							

¹Type: A=area B=blank P=personal E=excursion    ²Beginning/End of Sample Period    ³Pump Calibration in Liters/Minute    ⁴Volume in Liters [time in min \* flow in L/min]

Sampled by NAME <u>Francco Quintans</u> SIGNATURE DATE/TIME <u>7/9/10</u>	Relinquished to lab by NAME <u>Francco Quintans</u> SIGNATURE DATE/TIME <u>7/10/13</u>	<input type="checkbox"/> FX <input type="checkbox"/> UPS <input checked="" type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB:
--	---	---

Sample return requested  
  Ambient temp  
  Ice  
 °C pH Cl  RVS  Chain of Custody documentation continued internally within lab. Terms and conditions page 2.



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Submitting Co. <b>INDUSTRIAL HYGIENE PROFESSIONALS, INC.</b>	Lab Use- WO # <b>2755</b>	Phone # <b>671 734-0749</b>
P.O. BOX 5086 HAGATNA, GU 96932	Acct #	Fax # & E-mail <b>671 734-0749 JMFHP@GUAM.NET</b>

Project Name: **GPA Tango (2 of 6)** *Special Instructions [include requests for special reporting or data packages]*

Project Location: **GPA Tango Unit 2**

Project Number:

PO Number:

State Of Collection: **GUAM**

Turn Around Time	Matrix / Sample Type (Select ONE)	Asbestos Air / Fiber Counts	Asbestos Bulk / Asb ID	Metals - Total Conc.
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input checked="" type="checkbox"/> 2 business day* <input type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests. Schedule rush organics, multi-metals &amp; weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input type="checkbox"/> Air <input type="checkbox"/> Aqueous <input checked="" type="checkbox"/> Bulk <input type="checkbox"/> HI-Vol Filter (PM10) <input type="checkbox"/> HI-Vol Filter (TSP) <input type="checkbox"/> Oil <input type="checkbox"/> Paint <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Waste <input type="checkbox"/> Wastewater <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Compliance <input type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite	<input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/> _____ <b>Miscellaneous tests:</b> <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7502) <input type="checkbox"/> Silica - XRD (NIOSH 7500)	<input checked="" type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.11/1.6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield)	<input type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> _____ <input type="checkbox"/> _____ <b>Metals - Extract</b> <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) <b>Others</b> <input type="checkbox"/> _____

Sample #	Date Sampled	Time Sampled	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wiped Area (ft²)	Type <sup>1</sup> A,B,P,E	Time <sup>2</sup>		Flow Rate <sup>3</sup>		Total <sup>4</sup> Air Vol
						Start	Stop	Start	Stop	
R-02	7/9/10		HP Htrs to Condenser - GF - B2							
R-03	7/9/10		HP Htrs to Condenser - GF - B3							
T-02	7/9/10		4&5 - BF - C1							
T-03	7/9/10		4,5,20,21,22 VALVES - GF - B2							
U-02	7/9/10		EVAPORATOR & PIPES - TD - C1							
U-03	7/9/10		EVAPORATOR & PIPES - TD - C1							
U-04	7/9/10		EVAPORATOR & PIPES - TD - C1							
X-02	7/9/10		30 TO CONDENSER - GF - B2							
X-03	7/9/10		30 - DD - C2							
Y-02	7/9/10		10 - GF - C2							
Y-03	7/9/10		10 - GF - C2							
Z-02	7/9/10		11 - BF - C2							

<sup>1</sup>Type: A=area B=blank P=personal E=excursion <sup>2</sup>Beginning/End of Sample Period <sup>3</sup>Pump Calibration in Liters/Minute <sup>4</sup>Volume in Liters [time in min \* flow in L/min]

Sampled by NAME <u>Franco Quintans</u> SIGNATURE DATE/TIME <u>7/9/10</u>	Relinquished to lab by NAME <u>Franco Quintans</u> SIGNATURE DATE/TIME <u>7/10/13</u>	<input type="checkbox"/> FX <input checked="" type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB 
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Submitting Co. <b>INDUSTRIAL HYGIENE PROFESSIONALS, INC.</b>	Lab Use- WO #	Phone #	<b>671 734-0749</b>
P.O. BOX 5086 HAGATNA, GU 96932	Acct #	Fax # & E-mail	
		<b>2755</b>	<b>671 734-0749</b> <b>JMFHP@GUAM.NET</b>

Project Name: **GPA Tango (3 of 6)** *Special Instructions (Include requests for special reporting or data packages)*

Project Location: **GPA Tango Unit 2**

Project Number:

PO Number:

State Of Collection: **GUAM**

Turn Around Time	Matrix / Sample Type (Select ONE)	Asbestos Air / Fiber Counts	Asbestos Bulk / Asb ID	Metals Total Conc
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input checked="" type="checkbox"/> 2 business day* <input type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals &amp; weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input type="checkbox"/> Air <input type="checkbox"/> Aqueous <input checked="" type="checkbox"/> Bulk <input type="checkbox"/> HI-Vol Filter (PM10) <input type="checkbox"/> HI-Vol Filter (TSP) <input type="checkbox"/> Oil <input type="checkbox"/> Paint <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Waste <input type="checkbox"/> Wastewater <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Compliance <input type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite	<input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/> _____ <b>Miscellaneous tests</b> <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500)	<input checked="" type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.1/4/6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/> _____ <b>FOR ASBESTOS AIR:</b> TYPE OF RESPIRATOR USED:	<input type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> _____ <b>Metals Extracts</b> <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) <input type="checkbox"/> _____ <b>Others</b>

Sample #	Date Sampled	Time Sampled	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wiped Area (ft²)	Type¹ A,B,P,E	Time²		Flow Rate³		Total⁴ Air Vol
						Start	Stop	Start	Stop	
Z-03	7/9/10		11 - GF - C2							
Z-04	7/9/10		11 - DD - C2							
AA-02	7/9/10		17 - GF - C2							
AA-03	7/9/10		17 - DD - C2							
AB-02	7/9/10		2 - BF - C2							
AB-03	7/9/10		2 - GF - C2							
AB-04	7/9/10		2 - DD - C2							
AC-02	7/9/10		6 - BF - C2							
AC-03	7/9/10		6 - GF - C2							
AC-04	7/9/10		6 - DD - C2							
AD-02	7/9/10		7 - BF - C2							
AD-03	7/9/10		7 - GF - C2							

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters (time in min \* flow in L/min)

Sampled by NAME <u>France Quintans</u> SIGNATURE <u>[Signature]</u> DATE/TIME <u>7/9/10</u>	Relinquished to lab by NAME <u>France Quintans</u> SIGNATURE <u>[Signature]</u> DATE/TIME <u>7/10/13</u>	<input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <u>[Signature]</u>
--	---	---

Sample return requested  Ambient temp  Ice °C pH Cl  R  S  X *Chain of custody documentation continues internally within lab. Terms and conditions page 2.*



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Acct # **2755** Phone # **671 734-0749**  
P.O. BOX 5086 HAGATNA, GU 96932 Fax # & E-mail **671 734-0749 JMFHHP@GUAM.NET**

Project Name: **GPA Tango (4 of 6)** Special Instructions [include requests for special reporting or data packages]  
Project Location: **GPA Tango Unit 2**  
Project Number:  
PO Number: State Of Collection **GUAM**

Turn Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input checked="" type="checkbox"/> 2 business day* <input type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals &amp; weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input checked="" type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input type="checkbox"/> _____ <input type="checkbox"/> Soil <input type="checkbox"/> _____	<b>Asbestos Air / Fiber Counts</b> <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/> _____ <b>Miscellaneous Tests</b> <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0800) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> _____ <b>Asbestos Bulk / Asb ID</b> <input checked="" type="checkbox"/> PLM (EPA 800/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.1/1.6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/> _____ <b>FOR ASBESTOS AIR:</b> TYPE OF RESPIRATOR USED:
		<b>Metals - Total Conc.</b> <input type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> _____ <input type="checkbox"/> _____ <b>Metals - Extract</b> <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/organics) <input type="checkbox"/> Others: _____

Sample #	Date Sampled	Time Sampled	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wiped Area (ft²)	Type¹ A,B,P,E	Time²		Flow Rate³		Total⁴ Air Vol
						Start	Stop	Start	Stop	
AD-04	7/9/10		7 - DD - C2							
AE-02	7/9/10		18 - BF - C2							
AE-03	7/9/10		18 - GF - C2							
AG-02	7/9/10		30 TO EVAPORATOR - MD - C1							
AG-03	7/9/10		30 TO EVAPORATOR - MD - C2							
AH-02	7/9/10		Overhead PIPE TO UMD - MD - C1							
AH-03	7/9/10		Overhead PIPE TO UMD - UMD - C1							
AI-02	7/9/10		DA TANK & PIPES - DD - C1							
AI-03	7/9/10		DA TANK & PIPES - DD - C1							
AI-04	7/9/10		DA TANK & PIPES - DD - C1							
AI-05	7/9/10		DA TANK & PIPES - DD - C1							
AJ-02	7/9/10		UNKNOWN PIPES - DD - C1							

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min \* flow in L/min]

Sampled by: NAME Franco Quintans SIGNATURE [Signature] DATE/TIME 7/9/10  
Relinquished to lab by: NAME Franco Quintans SIGNATURE [Signature] DATE/TIME 7/10/13

Sample return requested  Ambient temp  Ice  °C pH Cl  OR  IS  X  
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*[Handwritten signatures and initials]*





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Phone # **671 734-0749**  
Fax # & E-mail **671 734-0749**  
**JMFIHP@GUAM.NET**

Submitting Co. **INDUSTRIAL HYGIENE PROFESSIONALS, INC.**  
P.O. BOX 5085 HAGATNA, GU 96932

Lab Use-WO # **2755**  
Acct #

Project Name: **GPA Tango (5 of 6)** *Special Instructions [include requests for special reporting or data packages]*  
Project Location: **GPA Tango Unit 2**  
Project Number:  
PO Number: State Of Collection **GUAM**

Time Around Time	Matrix / Sample Type (Select ONE)	Asbestos Air / Fiber Counts	Asbestos Bulk / Asb ID	Metals Total Conc
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input checked="" type="checkbox"/> 2 business day* <input type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals &amp; weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input checked="" type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input type="checkbox"/> Soil	<input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/> _____ <b>Miscellaneous Tests:</b> <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500)	<input checked="" type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.11.4/8 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/> _____ <b>FOR ASBESTOS AIR:</b> TYPE OF RESPIRATOR USED:	<input type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> _____ <b>Metals Extract:</b> <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) <input type="checkbox"/> Others

Sample #	Date Sampled	Time Sampled	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wiped Area (ft²)	Type¹ A,B,P,E	Time²		Flow Rate³		Total⁴ Air Vol
						Start	Stop	Start	Stop	
AJ-03	7/9/10		UNKNOWN PIPES - DD - C1							
CF-01	7/9/10		3 - BF - C2							
CF-02	7/9/10		3 - BF - C1							
CF-03	7/9/10		3 - GF - C2							
CG-01	7/9/10		14&15 - BF - B2							
CG-02	7/9/10		14&15 - BF - A2							
CG-03	7/9/10		14&15 - BF - B2							
CH-01	7/9/10		MDR - BF - B2							
CH-02	7/9/10		MDR 27 - BF - B2							
CH-03	7/9/10		MDR 27 - GF - B2							
CI-01	7/9/10		20 - BF - B2							
CI-02	7/9/10		20 - GF - B2							

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min \* flow in L/min]

Sampled by NAME <u>Francco Quintans</u> SIGNATURE DATE/TIME <u>7/9/10</u>	Relinquished to lab by NAME <u>Francco Quintans</u> SIGNATURE DATE/TIME <u>7/10/13</u>	<input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB:
--	---	--

Sample return requested  Ambient temp  Ice °C pH Cl  R  S  X

*Chain of Custody documentation continued internally within job, terms and conditions page 2.*



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Submitting Co. <b>INDUSRTIAL HYGIENE PROFESSIONALS, INC.</b>	Lab Use-WO #	Phone #	<b>671 734-0749</b>
P.O. BOX 5086 HAGATNA, GU 96932	Acct #	Fax # & E-mail	
		<b>2755</b>	<b>671 734-0749</b> <b>JMFIHP@GUAM.NET</b>

Project Name: **GPA Tango (6 of 6)** *Special Instructions (include requests for special reporting or data packages)*

Project Location: **GPA Tango Unit 2**

Project Number:

PO Number:

State Of Collection: **GUAM**

Turn Around Time	Matrix / Sample type (Select ONE)	Asbestos: Air / Fiber Counts	Asbestos: Bulk / Asb-ID	Metals: Total Conc.
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input checked="" type="checkbox"/> 2 business day* <input type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals &amp; weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input type="checkbox"/> Air <input type="checkbox"/> Aqueous <input checked="" type="checkbox"/> Bulk <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Oil <input type="checkbox"/> Paint <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Waste <input type="checkbox"/> Wastewater <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Compliance <input type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite	<input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II)	<input checked="" type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.1/4/6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield)	<input type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> Metals-Extract <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) <input type="checkbox"/> Others
		<b>FOR ASBESTOS AIR:</b> TYPE OF RESPIRATOR USED:		

Sample #	Date Sampled	Time Sampled	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wiped Area (ft²)	Type¹ A,B,P,E	Time²		Flow Rate³		Total⁴ Air Vol
						Start	Stop	Start	Stop	
CI-03	7/9/10		20 - GF - B2							
CJ-01	7/9/10		12 - GF - C2							
CJ-02	7/9/10		12 - MD - C2							
CJ-03	7/9/10		12 - BF - C2							
CK-01	7/9/10		36 - GF - C2							
CK-02	7/9/10		36 - DD - C2							
CK-03	7/9/10		36 - TD - C2							
CL-01	7/9/10		UMD PIPES - UMD - C1							
CL-02	7/9/10		UMD PIPES (fr Evap) - UMD - C1							
CH-03	7/9/10		UMD PIPES (1) - UMD - C1							

¹Type: A=area B=blank P=personal E=excursion    ²Beginning/End of Sample Period    ³Pump Calibration in Liters/Minute    ⁴Volume in Liters [time in min \* flow in L/min]

Sampled by NAME <u>Franco Quintans</u> SIGNATURE <u>[Signature]</u> DATE/TIME <u>7/9/10</u>	Relinquished to lab by NAME <u>Franco Quintans</u> SIGNATURE <u>[Signature]</u> DATE/TIME <u>7/10/13</u>	<input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB
--	---	---

Sample return requested     Ambient temp     Ice    °C pH Cl  R  S  X

*Check for quality documentation continued internally within lab forms and conditions page 2.*

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## LABORATORY ANALYSIS REPORT

Asbestos Identification by EPA Method<sup>1</sup> 600/R-93/116, EPA 600/M4-82-020

**ACCOUNT #:** 2755-13-1204  
**CLIENT:** Industrial Hygiene Professionals, Inc.  
**ADDRESS:** P. O. Box 5086  
Hagatna, GU 96913

**DATE COLLECTED:** 6/28/2013  
**DATE RECEIVED:** 7/15/2013  
**DATE ANALYZED:** 7/16/2013  
**DATE REPORTED:** 7/16/2013

**PROJECT NAME:** GPA Tango  
**JOB LOCATION:** GPA Tango Unit 1  
**PROJECT NO.:**  
**PO NO.:**

**SampleType:** BULK

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
AL-01	31951562	FT Office GF D4 94x20		
Layer 1:	Floor Tile Gray/Green, Organically Bound		None Detected	100% NON FIBROUS MATERIAL
Layer 2:	Mastic Black, Bituminous		None Detected	100% NON FIBROUS MATERIAL
AL-02	31951563	FT Office GF C4 94x20		
Layer 1:	Floor Tile Gray/Green, Organically Bound		None Detected	100% NON FIBROUS MATERIAL
AL-03	31951564	FT Hallway GF E4 94x20		
Layer 1:	Floor Tile Gray/Green, Organically Bound		None Detected	100% NON FIBROUS MATERIAL
Layer 2:	Mastic Black, Bituminous		None Detected	100% NON FIBROUS MATERIAL
AM-01	31951565	Covebase GF E4		
Layer 1:	Cove Base Gray, Rubbery		None Detected	100% NON FIBROUS MATERIAL

**Total Number of Pages in Report: 7**

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Account - Workorder 2755-13-1204 (Continued)

Page 2 (Continued)

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
Layer 2:	Cove Base Mastic Yellow, Soft		None Detected	100% NON FIBROUS MATERIAL
AM-02	31951566	Covebase GF B4		
Layer 1:	Cove Base Gray, Rubbery		None Detected	100% NON FIBROUS MATERIAL
Layer 2:	Cove Base Mastic Yellow, Soft		None Detected	100% NON FIBROUS MATERIAL
AM-03	31951567	Covebase GF F4		
Layer 1:	Cove Base Gray, Rubbery		None Detected	100% NON FIBROUS MATERIAL
Layer 2:	Cove Base Mastic Yellow, Soft		None Detected	100% NON FIBROUS MATERIAL
AN-01	31951568	Ceiling Tile GF B4 94x20		
Layer 1:	Ceiling Tile White, Fibrous		None Detected	40% CELLULOSE FIBER 20% FOAMED GLASS 30% MINERAL/GLASS WOOL 10% NON FIBROUS MATERIAL
AO-01	31951569	Covebase Lab BF D4		
Layer 1:	Cove Base Black, Rubbery		None Detected	100% NON FIBROUS MATERIAL
Layer 2:	Cove Base Mastic Brown, Soft		None Detected	100% NON FIBROUS MATERIAL
AP-01	31951570	Ceiling Tile RR BF E4		
Layer 1:	Ceiling Tile White, Fibrous		None Detected	40% CELLULOSE FIBER 20% FOAMED GLASS 30% MINERAL/GLASS WOOL 10% NON FIBROUS MATERIAL
AQ-01	31951571	Ceiling Tile RR BF E4		
Layer 1:	Ceiling Tile White, Fibrous		None Detected	40% CELLULOSE FIBER 20% FOAMED GLASS 30% MINERAL/GLASS WOOL 10% NON FIBROUS MATERIAL

**Total Number of Pages in Report: 7**

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Account - Workorder 2755-13-1204 (Continued)

Page 3 (Continued)

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
AR-01	31951572	Ceiling Tile RR BF E4		
Layer 1:	Ceiling Tile White, Fibrous		None Detected	40% CELLULOSE FIBER 20% FOAMED GLASS 30% MINERAL/GLASS WOOL 10% NON FIBROUS MATERIAL
AS-01	31951573	LP Heater 1-1 BF E2		
Layer 1:	Powdery Material White, Powdery		15% AMOSITE	85% NON FIBROUS MATERIAL
AT-01	31951574	Steam Air Ejector BF E2		
Layer 1:	Powdery Material White, Powdery		12% AMOSITE	88% NON FIBROUS MATERIAL
AU-01	31951575	Steam Blow Down BF F2		
Layer 1:	Powdery Material White, Powdery		15% AMOSITE	85% NON FIBROUS MATERIAL
AV-01	31951576	Misc Drain Receiver BF E2		
Layer 1:	Powdery Material White, Powdery		12% AMOSITE	88% NON FIBROUS MATERIAL
AW-01	31951577	9 BF D2		
Layer 1:	Powdery Material White, Powdery		20% AMOSITE	80% NON FIBROUS MATERIAL
AX-01	31951578	22 BF E2		
Layer 1:	Powdery Material White, Powdery		20% AMOSITE	80% NON FIBROUS MATERIAL
AY-01	31951579	5 BFP 1-1 Warm Up BF F1		
Layer 1:	Powdery Material White, Powdery		20% AMOSITE	80% NON FIBROUS MATERIAL
AZ-01	31951580	BFP 1&2 Loop #3 BF F1		
Layer 1:	Powdery Material White, Powdery		15% AMOSITE	85% NON FIBROUS MATERIAL

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Account - Workorder 2755-13-1204 (Continued)

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
BA-01	31951581	8 BF E1		
Layer 1:	Powdery Material White, Powdery		15% AMOSITE	85% NON FIBROUS MATERIAL
BB-01	31951582	Boiler Feed Pump Suction GF F2		
Layer 1:	Powdery Material White, Powdery		15% AMOSITE	85% NON FIBROUS MATERIAL
BC-01	31951583	Deaerator Flow GF F2		
Layer 1:	Powdery Material White, Powdery		15% AMOSITE	85% NON FIBROUS MATERIAL
BD-01	31951584	BFW Fr HP Heater 1-1 GF F2		
Layer 1:	Powdery Material White, Powdery		15% AMOSITE	85% NON FIBROUS MATERIAL
BE-01	31951585	Condensate Deaerator GF F2		
Layer 1:	Powdery Material White, Powdery		10% AMOSITE	90% NON FIBROUS MATERIAL
BF-01	31951586	HP Htr 1-4 Drains DA GF F2		
Layer 1:	Powdery Material White, Powdery		10% AMOSITE	90% NON FIBROUS MATERIAL
BG-01	31951587	BFP Balancing Leak Off GF F2		
Layer 1:	Powdery Material White, Powdery		10% AMOSITE	90% NON FIBROUS MATERIAL
BH-01	31951588	BFP 1-1 Recirculation GF F2		
Layer 1:	Powdery Material White, Powdery		10% AMOSITE	90% NON FIBROUS MATERIAL
BI-01	31951589	BFP 1-2 Recirculation GF F2		
Layer 1:	Powdery Material White, Powdery		8% AMOSITE	92% NON FIBROUS MATERIAL

**Total Number of Pages in Report: 7**

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Account - Workorder 2755-13-1204 (Continued)

Page 5 (Continued)

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
BJ-01	31951590	DA 1-3 Drain Condenser GF F2		
Layer 1:	Powdery Material White, Powdery		8% AMOSITE	92% NON FIBROUS MATERIAL
BK-01	31951591	HPH Htr Condenser GF E3		
Layer 1:	Fibrous Material White, Fibrous		None Detected	90% MINERAL/GLASS WOOL 10% NON FIBROUS MATERIAL
BL-01	31951592	HP Htr Condenser FG GF E3		
Layer 1:	Fibrous Material Yellow, Fibrous		None Detected	90% MINERAL/GLASS WOOL 10% NON FIBROUS MATERIAL
BM-01	31951593	APH Duct FG GF E1		
Layer 1:	Fibrous Material Yellow, Fibrous		None Detected	90% MINERAL/GLASS WOOL 10% NON FIBROUS MATERIAL
BN-01	31951594	Fuel Oil Pump Pipe TD GF D1		
Layer 1:	Powdery Material White, Powdery		10% AMOSITE	90% NON FIBROUS MATERIAL
BO-01	31951595	Diesel Gen Exhaust GF D1		
Layer 1:	Powdery Material White, Powdery		10% AMOSITE	90% NON FIBROUS MATERIAL
BP-01	31951596	Stm Seal Reg Blow Down GF D2		
Layer 1:	Powdery Material White, Powdery		12% AMOSITE	88% NON FIBROUS MATERIAL
BQ-01	31951597	Tank Vent TD F1		
Layer 1:	Powdery Material White, Powdery		12% AMOSITE	88% NON FIBROUS MATERIAL
BR-01	31951598	Evaporator End TD F1		
Layer 1:	Powdery Material White, Powdery		12% AMOSITE	88% NON FIBROUS MATERIAL

**Total Number of Pages in Report: 7**

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Account - Workorder 2755-13-1204 (Continued)

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
BS-01	31951599	Aux Steam Evap TD F1		
Layer 1:	Powdery Material White, Powdery		8% AMOSITE	92% NON FIBROUS MATERIAL
BT-01	31951600	Main Steam TD D2		
Layer 1:	Powdery Material White, Powdery		10% AMOSITE	90% NON FIBROUS MATERIAL
BU-01	31951601	Boiler Pipe W/Valve FG TD E2		
Layer 1:	Fibrous Material Yellow, Fibrous		None Detected	90% MINERAL/GLASS WOOL 10% NON FIBROUS MATERIAL
BV-01	31951602	Turbine Gen FG TD D2		
Layer 1:	Fibrous Material Yellow, Fibrous		None Detected	90% MINERAL/GLASS WOOL 10% NON FIBROUS MATERIAL
BW-01	31951603	Boiler Hatch TD E1		
Layer 1:	Fibrous Material Yellow, Fibrous		None Detected	90% MINERAL/GLASS WOOL 10% NON FIBROUS MATERIAL
BX-01	31951604	APH Duct TD E1		
Layer 1:	Powdery Material Gray, Powdery		None Detected	100% NON FIBROUS MATERIAL
BY-01	31951605	CT Kitchen MD D4 10x12		
Layer 1:	Ceiling Tile White, Fibrous		None Detected	40% CELLULOSE FIBER 20% FOAMED GLASS 30% MINERAL/GLASS WOOL 10% NON FIBROUS MATERIAL
BZ-01	31951606	CT Control Rm MD B4 88x24		
Layer 1:	Ceiling Tile White, Fibrous		None Detected	40% CELLULOSE FIBER 20% FOAMED GLASS 30% MINERAL/GLASS WOOL 10% NON FIBROUS MATERIAL
CA-01	31951607	Evaporator MD F1		
Layer 1:	Powdery Material White, Powdery		10% AMOSITE	90% NON FIBROUS MATERIAL

**Total Number of Pages in Report: 7**

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Account - Workorder 2755-13-1204 (Continued)

Page 7 (Continued)

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
CB-01	31951608	Unknown TD To DD MD C1		
Layer 1:	Powdery Material White, Powdery		15% AMOSITE	85% NON FIBROUS MATERIAL
CC-01	31951609	Unknown Upper MD F1		
Layer 1:	Powdery Material White, Powdery		12% AMOSITE	88% NON FIBROUS MATERIAL
CD-001	31951610	DA Tank DD F2		
Layer 1:	Powdery Material White, Powdery		10% AMOSITE	90% NON FIBROUS MATERIAL
CE-01	31951611	DA Tank DD F1		
Layer 1:	Powdery Material White, Powdery		10% AMOSITE	90% NON FIBROUS MATERIAL
CF-01	31951612	Boiler Pipe FG MD E2		
Layer 1:	Fibrous Material Yellow, Fibrous		None Detected	90% MINERAL/GLASS WOOL 10% NON FIBROUS MATERIAL





Analyst: **SAMANI ABDELFADEL**

Reviewed By: **Reel Hashim, Analyst**

Total Number of Pages in Report: 7

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WorkOrderKey  
  
V : \ 965 \ 965060

Submitting Co. **INDUSTRIAL HYGIENE PROFESSIONALS, INC.** Lab Use- WO # \_\_\_\_\_  
Acct # \_\_\_\_\_ Phone # **671 734-0749**  
P.O. BOX 5086 HAGATNA, GU 96932 Fax # **671 734-0749**  
E-mail **JMFIHP@GUAM.NET**  
**2755**

Project Name: **GPA Tango (1 of 5)** Special Instructions [include requests for special reporting or data packages]  
Project Location: **GPA Tango Unit 1**  
Project Number: \_\_\_\_\_  
PO Number: \_\_\_\_\_ State Of Collection **GUAM**

Turn Around Time:  2 hours\*  Same day\*  1 business day\*  2 business day\*  3 business days\*  5 business days\*  Full TCLP (10d)  Weekend\*  
\* not available for all tests  
Schedule rush organics, multi-metals & weekend tests in advance.

Matrix / Sample Type (Select ONE)  
All samples on form should be of SAME matrix type. Use additional forms as needed.  
 Air  Solid  Aqueous  Waste  Bulk  Wastewater  Hi-Vol Filter (PM10)  Water, Drinking  Hi-Vol Filter (TSP)  Compliance  Oil  Wipe  Paint  Wipe, Composite  Sludge  \_\_\_\_\_  Soil  \_\_\_\_\_

Tests / Analytes (Select ALL that Apply)  
Asbestos Air / Fiber Counts:  PCM (NIOSH 7400)  TEM (AHERA)  TEM (EPA Level II)  \_\_\_\_\_  
Asbestos Bulk / Asb-ID:  PLM (EPA 600/R-93/116)  PLM (EPA Point Count)  PLM (Qualitative only)  NYELAP 198.11.41.6  CAELAP (EPA Interim)  TEM (Chatfield)  \_\_\_\_\_  
Metals - Total Conc:  Lead  RCRA Metals  \_\_\_\_\_  
Metals - Extract:  TCLP / Lead  TCLP / RCRA Metals  TCLP / Full (w/ organics)  Others  \_\_\_\_\_  
Miscellaneous Tests:  Total Dust (NIOSH 0500)  Resp. Dust (NIOSH 0600)  Silica - FTIR (NIOSH 7602)  Silica - XRD (NIOSH 7500)  \_\_\_\_\_  
FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED: \_\_\_\_\_

Sample #	Date Sampled	Time Sampled	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wiped Area (ft²)	Type¹ A,B,P,E	Time²		Flow Rate³		Total⁴ Air Vol
						Start	Stop	Start	Stop	
AL-01	6/28/13		Floor Tile-Office-GF-D4-94x20							
AL-02	6/28/13		Floor Tile-Office-GF-C4-94x20							
AL-03	6/28/13		Floor Tile-Hallway-GF-E4-94x20							
AM-01	6/28/13		Cove Base-GF-E4							
AM-02	6/28/13		Cove Base-GF-B4							
AM-03	6/28/13		Cove Base-GF-F4							
AN-01	6/28/13		Ceiling Tile-GF-B4-94x20							
AO-01	6/28/13		Cove Base - Lab - BF- D4							
AP-01	6/28/13		Ceiling Tile-RR-BF-E4							
AQ-01	6/28/13		Ceiling Tile-RR-BF-E4							
AR-01	6/28/13		Ceiling Tile-RR-BF-E4							
AS-01	6/28/13		LP Heater 1-1 - BF - E2							

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min \* flow in L/min]

Sampled by NAME **Franco Quintans** Relinquished to lab by NAME **Franco Quintans**  
SIGNATURE SIGNATURE   
DATE/TIME **6/28-30/13** DATE/TIME **7/1/13**

FX  UPS  USM  HD  DB



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WO Label:  
**Submit via Email**

Submitting Co. **INDUSRTRIAL HYGIENE PROFESSIONALS, INC.** Lab Use-WO # \_\_\_\_\_  
 P.O. BOX 5086 HAGATNA, GU 96932 Acct # \_\_\_\_\_ Phone # **671 734-0749**  
 Fax # & E-mail **671 734-0749**  
**JMFIHP@GUAM.NET**  
 2755

Project Name: **GPA Tango (2 of 5)** Special Instructions [include requests for special reporting or data packages]  
 Project Location: **GPA Tango Unit 1**  
 Project Number: \_\_\_\_\_  
 PO Number: \_\_\_\_\_ State Of Collection **GUAM**

Turn Around Time	Matrix / Sample Type (Select ONE)	Asbestos Air / Fiber Counts	Asbestos Bulk / Asb ID	Metals - Total Conc
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input checked="" type="checkbox"/> 1 business day* <input type="checkbox"/> 2 business day* <input type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* * not available for all tests Schedule rush organics, multi-metals & weekend tests in advance.	All samples on form should be of SAME matrix type. Use additional forms as needed. <input type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input checked="" type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> HI-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> HI-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input type="checkbox"/> _____ <input type="checkbox"/> Soil <input type="checkbox"/> _____	<input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/> _____ <b>Miscellaneous Tests</b> <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0800) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> _____	<input checked="" type="checkbox"/> PLM (EPA 800/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.1/4,6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/> _____ <b>FOR ASBESTOS AIR:</b> TYPE OF RESPIRATOR USED: _____	<input type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> _____ <b>Metals - Extract</b> <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) <input type="checkbox"/> Others _____

Sample #	Date Sampled	Time Sampled	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wiped Area (ft²)	Type¹ A,B,P,E	Time²		Flow Rate³		Total⁴ Air Vol
						Start	Stop	Start	Stop	
AT-01	6/28/13		Steam to Air Ejector-BF-E2							
AU-01	6/28/13		Steam Blow Down - BF - F2							
AV-01	6/28/13		Misc. Drain Receiver - BF-E2							
AW-01	6/28/13		9-BF-D2							
AX-01	6/28/13		22-BF-E2							
AY-01	6/28/13		5-BFP 1-1 Warm Up - BF- F1							
AZ-01	6/28/13		BFP 1&2 Loop to #3 - BF - F1							
BA-01	6/28/13		8-BF-E1							
BB-01	6/29/13		Boiler Feed Pump Suction-GF-F2							
BC-01	6/29/13		Deaerator Flow - BF - F2							
BD-01	6/29/13		BFW fr HP Heater 1-1 - GF-F2							
BE-01	6/29/13		Condensate to Deaerator - GF - F2							

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min \* flow in L/min]

Sampled by NAME <u>Franco Quintans</u> SIGNATURE DATE/TIME <u>6/28-30/13</u>	Relinquished to lab by NAME <u>Franco Quintans</u> SIGNATURE DATE/TIME <u>7/1/13</u>	<input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB:
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Sample return requested  Ambient temp  Ice °C pH Cl  R  S  X Chain of Custody documentation continued integrally with lab terms and conditions page 2.



**SCHNEIDER LABORATORIES GLOBAL, INC.**  
2512 West Cary Street, Richmond, Virginia 23220-5117  
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

WO Label:  
**Submit via Email**

Submitting Co. **INDUSTRIAL HYGIENE PROFESSIONALS, INC.** Lab. Use WO # \_\_\_\_\_  
 P.O. BOX 5085 HAGATNA, GU 96932 Acct # \_\_\_\_\_  
 Phone # **671 734-0749**  
 Fax # & E-mail **671 734-0749 JMFHP@GUAM.NET**  
 2755

Project Name: **GPA Tango (3 of 5)** Special Instructions [Include requests for special reporting or data packages]  
 Project Location: **GPA Tango Unit 1**  
 Project Number: \_\_\_\_\_  
 PO Number: \_\_\_\_\_ State Of Collection **GUAM**

Turn Around Time:  2 hours\*  Same day\*  1 business day\*  2 business day\*  3 business days\*  5 business days\*  Full TCLP (10d)  Weekend\*  
 \* not available for all tests. Schedule rush organics, multi-metals & weekend tests in advance.

Main / Sample Type (Select ONE):  
 Air  Solid  Aqueous  Waste  Bulk  Wastewater  Hi-Vol Filter (PM10)  Water, Drinking  Hi-Vol Filter (TSP)  Compliance  Oil  Wipe  Paint  Wipe, Composite  Sludge  \_\_\_\_\_  Soil  \_\_\_\_\_

All samples on form should be of SAME matrix type. Use additional forms as needed.

Tests / Analytes (Select ALL that Apply):  
 Asbestos/Air / Fiber Counts:  PCM (NIOSH 7400)  TEM (AHERA)  TEM (EPA Level II)  \_\_\_\_\_  
 Asbestos Bulk / Asb-ID:  PLM (EPA 600/R-93/116)  PLM (EPA Point Count)  PLM (Qualitative only)  NYELAP 198.11.4/6  CAELAP (EPA Interim)  TEM (Chatfield)  \_\_\_\_\_  
 Metals - Total Conc:  Lead  RCRA Metals  \_\_\_\_\_  
 Metals - Extract:  TCLP / Lead  TCLP / RCRA Metals  TCLP / Full (w/ organics)  Others \_\_\_\_\_  
 Miscellaneous tests:  Total Dust (NIOSH 0500)  Resp. Dust (NIOSH 0600)  Silica - FTIR (NIOSH 7602)  Silica - XRD (NIOSH 7600)  \_\_\_\_\_  
 FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED: \_\_\_\_\_

Sample #	Date Sampled	Time Sampled	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wiped Area (ft²)	Type¹ A,B,P,E	Time²		Flow Rate³		Total⁴ Air Vol
						Start	Stop	Start	Stop	
BF-01	6/29/13		HP Htr 1-4 Drains to DA - GF-F2							
BG-01	6/29/13		BFP Balancing Leak Off - GF - F2							
BH-01	6/29/13		BFP 1-1 Recirculation - GF - F2							
BI-01	6/29/13		BFP 1-2 Recirculation - GF - F2							
BJ-01	6/29/13		DA 1-3 - Drain to Condenser-GF-F2							
BK-01	6/29/13		HPH Htr 1-2 to Condenser-GF-E2							
BL-01	6/29/13		HP Htr to Condenser (FG) - GF - E3							
BM-01	6/29/13		APH Duct (FG) - GF - E1							
BN-01	6/29/13		Fuel Oil Pump Pipes to TD - GF-D1							
BO-01	6/29/13		Diesel Generator Exhaust - GF - D1							
BP-01	6/29/13		Strn Seal Regulator Blow Down - GF - D2							
BQ-01	6/29/13		Tank Vent - TD - F1							

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min \* flow in L/min]

Sampled by: NAME Franco Quintans SIGNATURE DATE/TIME 6/28-30/13  
 Relinquished to lab by: NAME Franco Quintans SIGNATURE DATE/TIME 7/1/13

Sample return requested  Ambient temp  Ice °C pH Cl  R  S  O  X  
 Chain of Custody documentation continued internally within lab. Terms and conditions page 2.



**SCHNEIDER LABORATORIES GLOBAL, INC.**  
2512 West Cary Street, Richmond, Virginia 23220-5117  
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

WO Label:

Submit via Email

Submitting Co. <b>INDUSTRIAL HYGIENE PROFESSIONALS, INC.</b>	Lab Use- WO #	Phone # <b>671 734-0749</b> Fax # & E-mail <b>671 734-0749</b> <b>JMFIHP@GUAM.NET</b>
P.O. BOX 5086 HAGATNA, GU 96932	Acc#	
Project Name: <b>GPA Tango (4 of 5)</b>		Special Instructions (include requests for special reporting or data packages)
Project Location: <b>GPA Tango Unit 1</b>		
Project Number:		
PO Number:		State Of Collection <b>GUAM</b>

<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input checked="" type="checkbox"/> 1 business day* <input type="checkbox"/> 2 business day* <input type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals &amp; weekend tests in advance.</small>	<b>Matrix / Sample type (Select ONE)</b> <small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input type="checkbox"/> Air <input type="checkbox"/> Aqueous <input checked="" type="checkbox"/> Bulk <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Oil <input type="checkbox"/> Paint <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Waste <input type="checkbox"/> Wastewater <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Compliance <input type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite	<b>Tests / Analytes (Select ALL that Apply)</b> <b>Asbestos Air / Fiber Counts</b> <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/> _____ <b>Miscellaneous tests</b> <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500)	<b>Asbestos Bulk / Ash ID</b> <input checked="" type="checkbox"/> PLM (EPA 800/R-83/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.1/4/5 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/> _____ <b>FOR ASBESTOS AIR:</b> TYPE OF RESPIRATOR USED:	<b>Metals - Total Conc.</b> <input type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> _____ <input type="checkbox"/> _____ <b>Metals - Extract</b> <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) <input type="checkbox"/> _____ <b>Others</b> <input type="checkbox"/> _____
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Sample #	Date Sampled	Time Sampled	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wiped Area (ft²)	Type¹ A,B,P,E	Time²		Flow Rate³		Total⁴ Air Vol
						Start	Stop	Start	Stop	
BR-01	6/29/13		Evaporator End - TD - F1							
BS-01	6/29/13		Aux. Steam to Evaporator - TD - F1							
BT-01	6/29/13		Main Steam - TD - D2							
BU-01	6/29/13		Boiler Pipes w/ Valves (FG)- TD - E2							
BV-01	6/29/13		Turbine Generator (FG) - TD - D2							
BW-01	6/29/13		Boiler Hatch - TD - E1							
BX-01	6/29/13		APH Duct - TD - E1							
BY-01	6/30/13		Ceiling Tile-Kitchen-MD-D4-10x12							
BZ-01	6/30/13		CingTile-ControlRm-MD-B4-88x24							
CA-01	6/30/13		Evaporator - MD - F1							
CB-01	6/30/13		Unknown from TD to DD - MD - C1							
CC-01	6/30/13		Unknown-Upper MD - F1							

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters (time in min \* flow in L/min)

Sampled by NAME <u>Francco Quintans</u> SIGNATURE DATE/TIME <u>6/28-30/13</u>	Relinquished to lab by NAME <u>Francco Quintans</u> SIGNATURE DATE/TIME <u>7/1/13</u>	<input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB
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**SCHNEIDER LABORATORIES GLOBAL, INC.**  
2512 West Cary Street, Richmond, Virginia 23220-5117  
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

WO Label:  
**Submit Via Email**

Submitting Co. **INDUSTRIAL HYGIENE PROFESSIONALS, INC.** Lab Use-WO # \_\_\_\_\_  
Acct # \_\_\_\_\_  
P.O. BOX 5086 HAGATNA, GU 96932 Phone # **671 734-0749**  
Fax # & E-mail **671 734-0749 JMFHP@GUAM.NET**  
2755

Project Name: **GPA Tango (5 of 5)** Special Instructions [Include requests for special reporting or data packages]  
Project Location: **GPA Tango Unit 1**  
Project Number: \_\_\_\_\_  
PO Number: \_\_\_\_\_ State Of Collection: **GUAM**

Turn-Around Time:  2 hours\*  Same day\*  1 business day\*  2 business day\*  3 business days\*  5 business days\*  Full TCLP (10d)  Weekend\*  
\*not available for all tests  
Schedule rush organics, multi-metals & weekend tests in advance.

Matrix/ Sample Type (Select ONE):  
All samples on form should be of SAME matrix type. Use additional forms as needed.  
 Air  Solid  Aqueous  Waste  Bulk  Wastewater  Hi-Vol Filter (PM10)  Water, Drinking  Hi-Vol Filter (TSP)  Compliance  Oil  Wipe  Paint  Wipe, Composite  Sludge  \_\_\_\_\_  Soil  \_\_\_\_\_

Tests / Analytes (Select ALL that Apply):  
Asbestos Air / Fiber Counts:  PCM (NIOSH 7400)  TEM (AHERA)  TEM (EPA Level II)  \_\_\_\_\_  
Asbestos Bulk / Asb ID:  PLM (EPA 600/R-93/116)  PLM (EPA Point Count)  PLM (Qualitative only)  NYELAP 198.1/4.6  CAELAP (EPA Interim)  TEM (Chatfield)  \_\_\_\_\_  
Miscellaneous Tests:  Total Dust (NIOSH 0500)  Resp. Dust (NIOSH 0600)  Silica - FTIR (NIOSH 7602)  Silica - XRD (NIOSH 7500)  \_\_\_\_\_  
Metals - Total Conc.:  Lead  RCRA Metals  \_\_\_\_\_  
Metals - Extract:  TCLP / Lead  TCLP / RCRA Metals  TCLP / Full (w/ organics)  Others  \_\_\_\_\_  
FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED: \_\_\_\_\_

Sample #	Date Sampled	Time Sampled	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wiped Area (ft²)	Type¹ A,B,P,E	Time²		Flow Rate³		Total⁴ Air Vol
						Start	Stop	Start	Stop	
CD-01	6/30/13		DA Tank - DD - F2							
CE-01	6/30/13		DA Tank - DD - F1							
CF-01	6/30/13		Boiler Pipe (FG) - MD - E2							

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min \* flow in L/min]

Sampled by NAME **Franco Quintans** Relinquished to lab by NAME **Franco Quintans**  
SIGNATURE SIGNATURE   
DATE/TIME **6/28-30/13** DATE/TIME **7/1/13**  
 FX  UPS  USM  HD  DB  \_\_\_\_\_  
 Sample return requested  Ambient temp  Ice  °C pH Cl  R  G  X Chain of Custody documentation continued internally within lab. Terms and conditions page 2.

**APPENDIX D**  
**INSPECTOR AND**  
**LABORATORY**  
**CERTIFICATIONS**

# Big Apple Occupational Safety Corp.

505 Eighth Avenue, New York, New York 10018  
212-564-7656

This is to certify that

***John M. Fernandez***

SS#: 056-66-5419

has successfully completed the 8 hours EPA approved Asbestos Contractor/Supervisor Refresher Training Course and passed the examination for purpose of accreditation required under 206 of Title II of the Toxic Substances Control Act (TSCA) conducted by Big Apple Occupational Safety Corp. at Guam

## Asbestos Inspector/Management Planner Refresher

Course Date: 9/10/2012

Examination Date: 9/10/2012

Expiration Date: 9/10/2013

Certificate Number: IM- 5419 Examination Grade: 100% , 100%

  
Radha Reddy  
Training Director



# Big Apple Occupational Safety Corp.

505 Eighth Avenue, New York, New York 10018  
212-564-7656

This is to certify that

*Franco Quintans*

SS#: xxx-xx-8970

has successfully completed the 8 hours EPA approved Asbestos Contractor/Supervisor Refresher Training Course and passed the examination for purpose of accreditation required under 206 of Title II of the Toxic Substances Control Act (TSCA) conducted by Big Apple Occupational Safety Corp. at Guam

## Asbestos Inspector Refresher

Course Date: 9/10/2012

Examination Date: 9/10/2012

Expiration Date: 9/10/2013

Certificate Number: AIR- 8970 Examination Grade: 100%

  
Radha Reddy  
Training Director



June 28, 2013

Laboratory ID: 100527

Dr. Raja Abouzaki  
Schneider Laboratories Global, Inc.  
2512 West Cary Street  
Richmond, VA 23220-5117

Dear Abouzaki:

AIHA Laboratory Accreditation Programs, LLC (AIHA-LAP, LLC) has approved an extension to your laboratory's current certificate of accreditation in the Industrial Hygiene Laboratory Accreditation Program (IHLAP) and Environmental Lead Accreditation Program (ELLAP). This extension will expire on September 01, 2013. Remember that your laboratory's proficiency rating in the PAT programs must be maintained for the new certificate to be issued.

Your laboratory remains an accredited laboratory in IHLAP and ELLAP. Please keep a copy of this letter with your expired certificate. If you have questions or concerns, please feel free to contact Patricia Sheehan, Laboratory Accreditation Specialist at (703) 846-0739.

Sincerely,

A handwritten signature in cursive script that reads "Cheryl O. Morton".

Cheryl O. Morton  
Managing Director  
AIHA Laboratory Accreditation Programs, LLC



## AIHA Laboratory Accreditation Programs, LLC

*acknowledges that*

### Schneider Laboratories Global, Inc.

2512 West Cary Street  
Laboratory ID: 100527

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories in the following:*

#### LABORATORY ACCREDITATION PROGRAMS

- INDUSTRIAL HYGIENE
  - ENVIRONMENTAL LEAD
  - ENVIRONMENTAL MICROBIOLOGY
  - FOOD
- Accreditation Expires: 04/01/2013  
Accreditation Expires: 04/01/2013  
Accreditation Expires:  
Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website ([www.aihaaccreditedlabs.org](http://www.aihaaccreditedlabs.org)) for the most current Scope.

*Christine Powell*

Christine Powell

Chairperson, Analytical Accreditation Board

Revision 11: 01/13/2011

*Cheryl O. Morton*

Cheryl O. Morton

Director, AIHA Laboratory Accreditation Programs, LLC

Date Issued: 01/10/2012

United States Department of Commerce  
National Institute of Standards and Technology



## Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101150-0

**Schneider Laboratories Global, Inc.**  
Richmond, VA

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:*

### **BULK ASBESTOS FIBER ANALYSIS**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

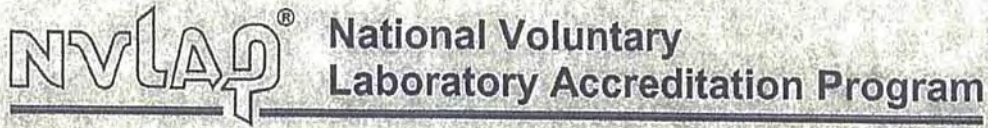
2013-04-01 through 2014-03-31

*Effective dates*



A handwritten signature in black ink, appearing to read "M. R. M. L. D.", written over a horizontal line.

*For the National Institute of Standards and Technology*



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

Schneider Laboratories Global, Inc.  
2512 W. Cary Street  
Richmond, VA 23220-5117  
Mr. Raja Abouzaki, PhD  
Phone: 804-353-6778 Fax: 804-359-1138  
E-Mail: RAbouzaki@slabinc.com  
URL: <http://www.slabinc.com>

**BULK ASBESTOS FIBER ANALYSIS (PLM)**

**NVLAP LAB CODE 101150-0**

<i>NVLAP Code</i>	<i>Designation / Description</i>
18/A01	EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

2013-04-01 through 2014-03-31

*Effective dates*

A handwritten signature in black ink, appearing to read "William R. M...".

*For the National Institute of Standards and Technology*

## GOVERNMENT OF GUAM

### GENERAL TERMS AND CONDITIONS

#### SEALED BID SOLICITATION AND AWARD

**Only those Boxes checked below are applicable to this bid.**

1. **AUTHORITY:** This solicitation is issued subject to all the provision of the Guam Procurement Act (5GCA, Chapter 5) And the Guam Procurement Regulations (copies of both are available at the Office of the Complier of laws, Department of Law, copies available for inspection at the Guam Power Authority). It requires all parties involved in the Preparation, negotiation, performance, or administration of contracts to act in good faith.
2. **GENERAL INTENTION:** Unless otherwise specified, it is the declared and acknowledged intention and meaning of these General Terms and conditions for the bidder to provide the Government of Guam (Government) with specified services or with materials, supplies or equipment completely assembled and ready for use.
3. **TAXES:** Bidders are cautioned that they are subject to Guam Income Taxes as well as all other taxes on Guam Transactions. Specific information on taxes may be obtained from the Director of Revenue and Taxation.
4. **LICENSING:** Bidders are cautioned that the Government will not consider for award any offer submitted by a bidder who has not complied with the Guam Licensing Law. Specific information on licenses may be obtained from the Director of Revenue and Taxation.
5. **LOCAL PROCUREMENT PREFERENCE:** All procurement of supplies and services where possible, will be made from among businesses licensed to do business on Guam in accordance with section 5008 of the Guam Procurement Act (5GCA, Chapter 5) and Section 1-104 of the Guam Procurement Regulations.
6. **COMPLIANCE WITH SPECIFICATIONS AND OTHER SOLICITATION REQUIREMENTS:** Bidders shall comply with all specifications and other requirements of the Solicitation.
7. **“ALL OR NONE” BIDS:** Unless otherwise allowed under this Solicitation. “all or none” bids may be deemed to be non-responsive. If the bid is so limited, the Government may reject part of such proposal and award on the remainder.

**NOTE:** By checking this item, the Government is requesting all of the bid items to be bid or none at all. **The Government will not award on an itemized basis.** Reference: Section 3-101.06 of the Guam Procurement Regulations.

8. **INDEPENDENT PRICE DETERMINATION:** The bidder, upon signing the Invitation for Bid, certifies that the prices in his bid were derived at without collusion, and acknowledge that collusion and anti-competitive practices are prohibited by law. Violations will be subject to the provision of Section 5651 of that of the Guam Procurement Act. Other existing civil, criminal or administrative remedies are not impaired and may be in addition to the remedies in Section 5651 of the Government code.
9. **BIDDER'S PRICE:** The Government will consider not more than two (2) (Basic and Alternate) item prices and the bidder shall explain fully each price if supplies, materials, equipment, and/or specified services offered comply with specifications and the products origin. Where basic or alternate bid meets the minimum required specification, cost and other factors will be considered. Failure to explain this requirement will result in rejection of the bid.
10. **BID ENVELOPE:** Envelope shall be sealed and marked with the bidder's name, Bid number, time, date and place of Bid Opening.
11. **BID GUARANTEE REQUIREMENT:** Bidder is required to submit a Bid Guarantee Bond or standby irrevocable Letter of Credit or Certified Check or Cashier's Check in the same bid envelope to be held by the Government pending award. The Letter of Credit, Cash, Certified Check or Cashier's Check, Bid Guarantee Bond must be issued by any local surety or banking institution licensed to do business on Guam and made payable to the Guam Power Authority in the amount of ten thousand (\$10,000.00) dollars. The Bid Bond must be submitted on Government Standard Form BB-1 (copy enclosed). Personal Checks will not be accepted as Bid Guarantee. If a successful Bidder (contractor) withdraws from the bid or fails to enter into contract within the prescribed time, such Bid guarantee will be forfeited to the Government of Guam. Bids will be disqualified if not accompanied by Bid Bond, Letter of Credit, Certified Check or Cashier's check. Bidder must include in his/her bid, valid copies of a Power of Attorney from the Surety and a Certificate of Authority from the Government of Guam to show proof that the surety company named on the bond instrument is authorized by the Government of Guam and qualified to do business on Guam. For detailed information on bonding matters, contact the Department of Revenue and Taxation. Failure to submit a valid Power of Attorney and Certificate of Authority on the surety is cause for rejection of bid. (GPR Section 3-202.03.3) **Pursuant to Public Law 27-127, all competitive sealed bidding for the procurement of supplies or services exceeding \$25,000.00 a 15% Bid Security of the total bid price must accompany the bid package.**
12. **PERFORMANCE BOND REQUIREMENT:** The Bidder may be required to furnish a Performance Bond on Government Standard Form BB-1 or standby irrevocable Letter of Credit or Certified Check or Cashier's Check payable to the Guam Power Authority issued by any of the local Banks or Bonding Institution in the amount of fifteen (15%) of the estimated amount of the contract within the term of the contract as security for the faithful performance and proper fulfillment of the contract. In the event that any of the provisions of this contract are violated by the contractor, the Chief Procurement Officer shall serve written notice upon both the contractor and the Surety of its intention to terminate the contract. Unless satisfactory arrangement or correction is made with ten (10) days of such notice the contract shall cease and terminate upon the expiration of the ten (10) days. In the event of any such termination, the Chief Procurement Officer shall immediately serve notice thereof upon the Surety. The Surety shall have the right to take over and perform the contract, provided, however, that if the Surety does not commence performance thereof within 10 days from the date of the mailing of notice of termination, the Government may take over and prosecute the same to complete the contract or force account for the account and at the expense of the contractor, and the contractor and his Surety shall be liable to the Government for any excess cost occasioned the Government thereby (GPR Section 3-202.03.4).

- [X] 13. **PERFORMANCE GUARANTEE:** Bidders who are awarded a contract under this solicitation, guarantee that goods will be delivered or required services performed within the time specified. Failure to perform the contract in a satisfactory manner may be cause for suspension or debarment from doing business with the Government and to enforce Section 23 of these General Terms and Conditions. In addition, the Government will hold the Vendor liable and will enforce the requirements as set forth in Section 41 of these General Terms and Conditions.
- [X] 14. **SURETY BONDS:** Bid and Performance Bonds coverage must be signed or countersigned in Guam by a foreign or alien surety's resident general agent. The surety must be an Insurance Company, authorized by the government of Guam and qualified to do business in Guam. Bids will be disqualified if the Surety Company does not have a valid Certificate of Authority from the Government of Guam to conduct business in Guam.
- [X] 15. **COMPETENCY OF BIDDERS:** Bids will be considered only from such bidders who, in the opinion of the Government, can show evidence of their ability, experience, equipment, and facilities to render satisfactory service.
- [X] 16. **DETERMINATION OF RESPONSIBILITY OF BIDDERS:** The Chief Procurement Officer reserves the right for securing from bidders information to determine whether or not they are responsible and to inspect plant site, place of business; and supplies and services as necessary to determine their responsibility in accordance with Section 15 of these General Terms and Conditions (GPR Section 3-401).
- [X] 17. **STANDARD FOR DETERMINATION OF LOWEST RESPONSIBLE BIDDER:** In determining the lowest responsible offer, the Chief Procurement Officer shall be guided by the following:
- a) Price of items offered.
  - b) The ability, capacity, and skill of the Bidder to perform.
  - c) Whether the Bidder can perform promptly or within the specified time.
  - d) The quality of performance of the Bidder with regards to awards previously made to him.
  - e) The previous and existing compliance by the Bidder with laws and regulations relative to procurement.
  - f) The sufficiency of the financial resources and ability of the Bidder to perform.
  - g) The ability of the bidder to provide future maintenance and services for the subject of the award.
  - h) The compliance with all of the conditions to the Solicitation.
- [X] 18. **TIE BIDS:** If the bids are for the same unit price or total amount in the whole or in part, the Chief Procurement Officer will determine award based on Section 3.202.15.2, or to reject all such bids (GPR Section 3-202.15.2).
- [ ] 19. **BRAND NAMES:** Any reference in the Solicitation to manufacturer's Brand Names and number is due to lack of a satisfactory specification of commodity description. Such preference is intended to be descriptive, but not restrictive and for the sole purpose of indicating prospective bidders a description of the article or services that will be satisfactory. Bids on comparable items will be considered provided the bidder clearly states in his bid the exact articles he is offering and how it differs from the original specification.
- [ ] 20. **DESCRIPTIVE LITERATURE:** Descriptive literature(s) as specified in this solicitation must be furnished as a part of the bid and must be received at the date and time set for opening Bids. The literature furnished must clearly identify the item(s) in the Bid. The descriptive literature is required to establish, for the purpose of evaluation and award, details of the product(s) the bidder proposes to furnish including design, materials, components, performance characteristics, methods of manufacture, construction, assembly or other characteristics which are considered appropriate. Rejection of the Bid will be required if the descriptive literature(s) do not show that the product(s) offered conform(s) to the specifications and other requirements of this solicitation. Failure to furnish the descriptive literature(s) by the time specified in the Solicitation will require rejection of the bid.
- [ ] 21. **SAMPLES:** Sample(s) of item(s) as specified in this solicitation must be furnished as a part of the bid and must be received at the date and time set for opening Bids. The sample(s) should represent exactly what the bidder proposes to furnish and will be used to determine if the item(s) offered complies with the specifications. Rejection of the Bid will be required if the sample(s) do not show that the product(s) offered conform(s) to the specifications and other requirements of this solicitation. Failure to furnish the sample(s) by the time specified in the Solicitation will require rejection of the Bid.
- [ ] 22. **LABORATORY TEST:** Successful bidder is required to accompany delivery of his goods with a Laboratory Test Report indicating that the product he is furnishing the Government meets with the specifications. This report is on the bidder's account and must be from a certified Testing Association.
- [X] 23. **AWARD, CANCELLATION, & REJECTION:** Award shall be made to the lowest responsible and responsive bidder, whose bid is determined to be the most advantageous to the Government, taking into consideration the evaluation factors set forth in this solicitation. No other factors or criteria shall be used in the evaluation. The right is reserved as the interest of the Government may require to waive any minor irregularity in bid received. The Chief Procurement Officer shall have the authority to award, cancel, or reject bids, in whole or in part for any one or more items if he determines it is in the public interest. Award issued to the lowest responsible bidder within the specified time for acceptance as indicated in the solicitation, results in a bidding contract without further action by either party. In case of an error in the extension of prices, unit price will govern. It is the policy of the Government to award contracts to qualified local bidders. The government reserves the right to increase or decrease the quantity of the items for award and make additional awards for the same type items and the vendor agrees to such modifications and additional awards based on the bid prices for a period of thirty (30) days after original award. No award shall be made under this solicitation which shall require advance payment or irrevocable letter of credit from the government (GPR Section 3-202.14.1).
- [ ] 24. **MARKING:** Each outside container shall be marked with the Purchase Order number, item number, brief item description and quantity. Letter marking shall not be less than 3/4" in height.
- [ ] 25. **SCHEDULE FOR DELIVERY:** Successful bidder shall notify the Guam Power Authority Dededo Warehouse at (671) 653-2073, Guam Power Authority Cabras Warehouse at (671) 475-3319, or GPA Computer Services Division at 648-1891, at least twenty-four (24) hours before delivery of any item under this solicitation.
- [ ] 26. **BILL OF SALE:** Successful supplier shall render Bills of Sale for each item delivered under this contract. Failure to comply with this requirement will result in rejection of delivery. The Bill of Sale must accompany the items delivered but will not be considered as an invoice for payment. Supplier shall bill the Government in accordance with billing instructions as indicated on the Purchase Order.

27. **MANUFACTURER'S CERTIFICATE:** Successful bidder is required, upon delivery of any item under this contract, to furnish a certificate from the manufacturer indicating that the goods meet the specifications. Failure to comply with this request will result in rejection of delivery payment. Supplier shall bill the Government in accordance with billing instructions as indicated on the Purchase Order.
28. **INSPECTION:** All supplies, materials, equipment, or services delivered under this contract shall be subject to the inspection and/or test conducted by the Government at destination. If in any case the supplies, materials, equipment, or services are found to be defective in material, workmanship, performance, or otherwise do not conform with the specifications, the Government shall have the right to reject the items or require that they be corrected. The number of days required for correction will be determined by the Government.
29. **MOTOR VEHICLE SAFETY REQUIREMENTS:** The Government will only consider Bids on motor vehicles which comply with the requirements of the National Traffic and Motor Vehicle safety Act of 1966 (Public Law 89-563) and Clean Air Act as amended (Public Law 88-206), that are applicable to Guam. Bidders shall state if the equipment offered comply with these aforementioned Federal Laws.
30. **SAFETY INSPECTION:** All motor vehicles delivered under this contract must pass the Government of Guam Vehicle Inspection before delivery at destination.
31. **GUARANTEE:**  
a) **Guarantee of Vehicle Type of Equipment:**  
The successful bidder shall guarantee vehicular type of equipment offered against defective parts, workmanship, and performance, for a period of not less than one (1) year after date of receipt of equipment. Bidder shall also provide service to the equipment for at least one (1) year. Service to be provided shall include, but will not be limited to tune ups (change of spark plugs, contact points and condensers) and lubrication (change of engine and transmission oil). All parts and labor shall be at the expense of the bidder. All parts found defective and not caused by misuse, negligence or accident within the guarantee period shall be repaired, replaced, or adjusted within six (6) working days after notice from the Government and without cost to the Government. Vehicular type of equipment as used in this context shall include equipment used for transportation as differentiated from tractors, backhoes, etc.  
b) **Guarantee of Other Type of Equipment:**  
The successful bidder shall guarantee all other types of equipment offered, except those mentioned in 31a, above, against defective parts, workmanship, and performance for a period of not less than three (3) months after date of receipt of equipment. Bidder shall also provide service to the equipment for at least three (3) months. All parts found defective within that period shall be repaired or replaced by the Contractor without cost to the Government. Repairs, adjustments or replacements of defective parts shall be completed by the contractor within six (6) working days after notice from the Government.  
c) **Compliance with this Section is a condition of this Bid.**
32. **REPRESENTATION REGARDING ETHICS IN PUBLIC PROCUREMENT:** The bidder or contractor represents that it has not knowingly influenced and promises that it will not knowingly influence a Government employee to breach any of the ethical standards and represents that it has not violated, is not violating, and promises that it will not violate the prohibition against gratuities and kickbacks set forth on Chapter 11 (Ethics in Public Contracting) of the Guam Procurement Act and in Chapter 11 of the Guam Procurement Regulations.
33. **REPRESENTATION REGARDING CONTINGENT FEES:** The contractor represents that it has not retained a person to solicit or secure a Government contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, except for retention of bona fide employees or bona fide established commercial selling agencies for the purpose of securing business (GPR Section 11-207).
34. **EQUAL EMPLOYMENT OPPORTUNITY:** Contractors shall not discriminate against any employee or applicant of employment because of race, color, religion, sex, or national origin. The contractor will take affirmative action to ensure that employees are treated equally during employment without regards to their race, color, religion, sex, or national origin.
35. **COMPLIANCE WITH LAWS:** Bidders awarded a contract under this Solicitation shall comply with the applicable standard, provisions, and stipulations of all pertinent Federal and/or local laws, rules, and regulations relative to the performance of this contract and the furnishing of goods.
36. **CHANGE ORDER:** Any order issued relative to awards made under this solicitation will be subject to and in accordance with the provisions of Section 6-101-03.1 of the Guam Procurement Regulations.
37. **STOP WORK ORDER:** Any stop work order issued relative to awards made under this solicitation will be subject to and in accordance with the provisions of Section 6-101-04.1 of the Guam Procurement Regulations.
38. **TERMINATION FOR CONVENIENCE:** Any termination order for the convenience of the Government issued relative towards made under this solicitation will be subject to and in accordance with the provisions of Section 6-101.10 of the Government Procurement Regulations.
39. **TIME FOR COMPLETION:** It is hereby understood and mutually agreed by and between the contractor and the Government that the time for delivery to final destination or the timely performance of certain services is an essential condition of this contract. If the contractor refuses or fails to perform any of the provisions of this contract within the time specified in the Purchase Order (from the date Purchase Order is acknowledged by vendor), then the contractor is in default. Defaults will be treated subject to and in accordance with the provisions of Section 6-101-08 of the Guam Procurement Regulations.
40. **JUSTIFICATION OF DELAY:** Bidders who are awarded contracts under this Solicitation, guarantee that the goods will be delivered to their destination or required services rendered within the time specified. If the bidder is not able to meet the specified delivery date, he is required to notify the Chief Procurement Officer of such delay. Notification shall be in writing and shall be received by the Chief Procurement Officer at least twenty-four (24) hours before the specified delivery date. Notification of



delay shall include an explanation of the causes and reasons for the delay including statement(s) from supplier or shipping company causing the delay. The Government reserves the right to reject delay justification if, in the opinion of the Chief Procurement Officer, such justification is not adequate.

[X] 41. **LIQUIDATED DAMAGES:** When the contractor is given notice of delay or nonperformance as specified in Paragraph 1 (Default) of the Termination for Default Clause of this contract and fails to cure in the time specified, the contractor shall be liable for damages for delay in the amount of \$2,000.00 per calendar day from date set for cure until either the territory reasonable obtains similar supplies or services if the contractor is terminated for default, or until the contractor provides the supplies or services if the contractor is not terminated for default. To the extent that the contractor's delay or nonperformance is excused under Paragraph 40 (Excuse for Nonperformance or Delayed Performance) of the Termination for Default Clause of this contract, liquidated damages shall not be due the territory. The contractor remains liable for damages caused other than by delay (GPR Section 6-101-09.1). **Refer to Volume I, Section 4.28 – Time of Completion and Liquidated Damages.**

[X] 42. **PHYSICAL LIABILITY:** If it becomes necessary for the Vendor, either as principal, agent or employee, to enter upon the premises or property of the Government of Guam in order to construct, erect, inspect, make delivery or remove property hereunder, the Vendor hereby covenants and agrees to take, use, provide and make all proper, necessary and sufficient precautions, safeguards and protections against the occurrence of any accidents, injuries or damages to any person or property during the progress of the work herein covered, and to be responsible for, and to indemnify and save harmless the Government of Guam from the payment of all sums of money by reason of all or any such accidents, injuries or damages that may occur upon or about such work, and fines, penalties and loss incurred for or by reasons of the violations of any territorial ordinance, regulations, or the laws of Guam or the United States, while the work is in progress. Contractor will carry insurance to indemnify the Government of Guam against any claim for loss, damage or injury to property or persons arising out of the performance of the Contractor or his employees and agents of the services covered by the contract and the use, misuse or failure of any equipment used by the contractor or his employees or agents, and shall provide certificates of such insurance to the Government of Guam when required.

[X] 43. **CONTACT FOR CONTRACT ADMINISTRATION:** If your firm receives a contract as a result of this Solicitation, please designate a person whom we may contact for prompt administration.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Address: \_\_\_\_\_ Telephone: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

GOVERNMENT OF GUAM

**SEALED BID SOLICITATION INSTRUCTIONS**

1. **BID FORMS:** Each bidder shall be provided with two (2) sets of Solicitation forms. Additional copies may be provided upon request. Bidders requesting additional copies of said forms will be charged per page in accordance with Section 6114 of the Government Code of Guam. All payments for this purpose shall be by cash, certified check or money order and shall be made payable to the Guam Power Authority.
2. **PREPARATIONS OF BIDS:**
  - a) Bidders are required to examine the drawings, specifications, schedule, and all instructions. Failure to do so will be at bidder's risk.
  - b) Each bidder shall furnish the information required by the Solicitation. The bidder shall sign the solicitation and print or type his name on the Schedule. Erasures or other changes must be initialed by the person signing the bid. Bids signed by an agent are to be accompanied by evidence of this authority unless such evidence has been previously furnished to the issuing office.
  - c) Unit price for each unit offered shall be shown and such price shall include packing unless otherwise specified. A total shall be entered in the amount column of the Schedule for each item offered. In case of discrepancies between a unit price and extended price, the unit price will be presumed to be correct.
  - d) Bids for supplies or services other than those specified will not be considered. Time, if stated as a number of days, means calendar days and will include Saturdays, Sundays, and holidays beginning the day after the issuance of a Notice to Proceed. Time stated ending on a Saturday, Sunday or Government of Guam legal holiday will end at the close of the next business day.
3. **EXPLANATION TO BIDDERS:** Any explanation desired by a bidder regarding the meaning or interpretation of the Solicitation, drawings, specifications, etc., must be submitted in writing and with sufficient time allowed for a written reply to reach all bidders before the submission of their bids. Oral explanations or instructions given before the award of the contract will not be binding. Any information given to a prospective bidder concerning a Solicitation will be furnished to all prospective bidders in writing as an amendment to the Solicitation if such information would be prejudicial to uninformed bidders.
4. **ACKNOWLEDGEMENT OF AMENDMENTS TO SOLICITATIONS:** Receipt of an amendment to a Solicitation by a bidder must be acknowledged by signing an acknowledgement of receipt of the amendment. Such acknowledgement must be received prior to the hour and date specified for receipt of bids.
5. **SUBMISSION OF BIDS:**
  - a) Bids and modifications thereof shall be enclosed in sealed envelopes and addressed to the office specified in the Solicitation. The bidder shall show the hour and date specified in the Solicitation for receipt, the Solicitation number, and the name and address of the bidder on the face of the envelope.
  - b) Telegraphic bids will not be considered unless authorized by the Solicitation. However, bids may be modified or withdrawn by written or telegraphic notice, provided such notice is received prior to the hour and date specified for receipt (see paragraph 6 of these instructions).
  - c) Samples of items, when required, must be submitted within the time specified, unless otherwise specified by the Government, at no expense to the Government. If not destroyed by testing, samples will be returned at bidder's request and expense, unless otherwise specified by the Solicitation.
  - d) Samples or descriptive literature should not be submitted unless it is required on this solicitation. Regardless of any attempt by a bidder to condition the bid, unsolicited samples or descriptive literature will not be examined or tested at the bidder's risk, and will not be deemed to vary any of the provisions of this Solicitation.
6. **FAILURE TO SUBMIT BID:** If no bid is to be submitted, do not return the solicitation unless otherwise specified. A letter or postcard shall be sent to the issuing office advising whether future Solicitations for the type of supplies or services covered by this Solicitation are desired.
7. **LATE BID, LATE WITHDRAWALS, AND LATE MODIFICATIONS:**
  - a) Definition: Any bid received after the time and date set for receipt of bids is late. Any withdrawal or modification of a bid received after the time and date set for opening of bids at the place designated for opening is late (Guam Procurement Regulations Section 3-202)
  - b) Treatment: No late bid, late modification, or late withdrawal will be considered unless received before contract award, and the bid, modification, or withdrawal would have been timely but for the action or inaction of territorial personnel directly serving the procurement activity.
8. **DISCOUNTS:**
  - a) Notwithstanding the fact that prompt payment discounts may be offered, such offer will not be considered in evaluating bids for award unless otherwise specified in the Solicitation. However, offered discounts will be taken if payment is made within the discount period, even though not considered in the evaluation of bids.

b) In connection with any discount offered, time will be computed from date of delivery and acceptance of the supplies to the destination as indicated in the purchase order or contract. Payment is deemed to be made for the purpose of earning the discount on the date of mailing of the Government check.

9. **GOVERNMENT FURNISHED PROPERTY:** No material, labor or facilities will be furnished by the Government unless otherwise provided for in the Solicitation.
10. **SELLERS' INVOICES:** Invoices shall be prepared and submitted in quadruplicate (one copy shall be marked "original") unless otherwise specified. Invoices shall be "certified true and correct" and shall contain the following information: Contract and order number (if any), item numbers, description of supplies or services, sizes, quantities, unit prices, and extended total. Bill of lading number and weight of shipment will be shown for shipments made on Government bills of lading.
11. **RECEIPT, OPENING AND RECORDING OF BIDS:** Bids and modifications shall be publicly opened in the presence of one or more witnesses, at the time, date, and place designated in the Invitation for Bids. The name of each bidder, the bid price, and such other information as is deemed appropriate by the Procurement Officer, shall be read aloud and recorded, or otherwise made available. The names and addresses of required witnesses shall be recorded at the opening. The opened bids shall be available for public inspection except to the extent the bidder designates trade secrets or other proprietary data to be confidential as set forth in accordance with Section 12 below. Material so designated shall accompany the bid and shall be readily separable from the bid in order to facilitate public inspection of the non-confidential portion of the bid. Prices, makes and models or catalogue numbers of the items offered, deliveries, and terms of payment shall be publicly available at the time of bid opening regardless of any designation to the contrary (Guam Procurement Regulations Section 3-202.12.2).
12. **CONFIDENTIAL DATA:** The Procurement Officer shall examine the bids to determine the validity of any requests for nondisclosure of trade secrets and other proprietary data identified in writing. If the parties do not agree as to the disclosure of data, the Procurement Officer shall inform the bidders in writing what portions of the bid will be disclosed and that, unless the bidders protest under Chapter 9 of the Guam Procurement Act (P.L. 16-124), the bids will be so disclosed. The bids shall be opened to public inspection subject to any continuing prohibition on the disclosure of confidential data (Guam Procurement Regulations Section 3-202.12.3).
13. **MULTI-STEP SEALED BIDDING:**
- a. It is defined as two-phase process consisting of a technical first-phase composed of one or more steps in which bidders submit unpriced technical offers to be evaluated by the territory, and a second-phase in which those bidders whose technical offers are determined to be acceptable during the first-step have their priced bids considered. It is designed to obtain the benefits of competitive sealed bidding by award of a contract to the lowest responsive, responsible bidder, and at the same time obtained the benefits of the competitive sealed proposals procedure through the solicitation of technical offers and the conduct of discussions to evaluate and determine the acceptability of technical offers.
  - b. In addition to the requirements set forth in the General Terms and Conditions and the Special provisions, the following applies:
    - 1). only unpriced technical offers are requested in the first phase;
    - 2). priced bids will be considered only in the second phase and only from bidders whose unpriced technical offers are found acceptable in the first phase;
    - 3). the criteria to be used in the evaluation at those specified in the Special Provisions and the General Terms and Conditions;
    - 4). the territory, to the extent the Procurement Officer finds necessary, may conduct oral or written discussion of the unpriced technical offers;
    - 5). the bidders, may designate those portions of the unpriced technical offers which contain trade secrets or other proprietary data which are to remain confidential; and,
    - 6). the service being procured shall be furnished generally in accordance with bidder's technical offer as found to be finally acceptable and shall meet the requirements of the Invitation for Bids.
  - c. **RECEIPT AND HANDLING OF UNPRICED TECHNICAL OFFERS.**  
Unpriced technical offers shall not be opened publicly, but shall be opened in front of two or more procurement officials. Such offers shall not be disclosed to unauthorized persons. Bidders may request nondisclosure of trade secrets and other proprietary data identified in writing.
  - d. **EVALUATION OF UNPRICED TECHNICAL OFFERS.**  
The unpriced technical offers submitted by bidders shall be evaluated solely in accordance with the criteria set forth in the Invitation for Bids. The unpriced technical offers shall be categorized as:
    - 1). acceptable;
    - 2). potentially acceptable, that is, reasonably susceptible of being made acceptable; or
    - 3). unacceptable. The Procurement Officer shall record in writing the basis for finding an offer unacceptable and make it part of the procurement file.

The Procurement Officer may initiate Phase Two of the procedure if, in the Procurement Officer's opinion, there are sufficient acceptable unpriced technical offers to assure effective price competition in the second phase without technical discussions. If the Procurement Officer finds such is not the case, the Procurement Officer shall issue an amendment to the Invitation for Bids or engage in technical discussions as set forth in Subsection 3-202.20.5of this Section.
  - e. Upon the completion of Phase One, the Procurement Officer shall invite each acceptable bidder to submit a price bid. Upon submission of prices, the Procurement Officer shall prepare the final evaluation and reconsideration for the Chief Procurement Officer's approval.



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*J c|ctf qwu'O cygt kn'Uwt xgl'F cw'Tgr qt v'lqt'Ve pi wkuqp'Rqy gt'Rrcpv'*

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**APPENDIX B**  
**PHOTO LOG**



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*J c|ctf qwu'O cygt knu'Uwt xgl'F cw'Tgr qt v'lqt'Ve pi wkuqp'Rqy gt'Rrcpv'*

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*Vj ku'rci g'kpvwpkpcnd'gh'drcpm*



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*J c|ctf qwu'O cygt kn'Uwt xgl'F cw'Tgr qt v'lqt'Ve pi wkuqp'Rqy gt'Rrcpv'*

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***PCB Wipe Sampling***





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*J c|ctf qwu'O cygt kn'Ustxgl 'F cw'Tgr qt v'lqt 'Vcpi wkuqp'Rqy gt 'Rrcpv'*

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*Vj ku'r ci g'lpvppkqpcnd 'ngh'drcpm*





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J c|ctf qwu'Ocygk nu'Ustxgl'F cw'Tgrqt v'lqt'Vepi wkuqp'Rqy gt'Rrcpv'



TP-W001 Wipe Sample



TP-W002 Wipe Sample



TP-W004 Wipe Sample



TP-W007 Wipe Sample







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*J c|ctf qwu'O cygt kn'Ustxgl 'F cw'Tgr qt v'lqt 'Vcpi wkuqp'Rqy gt 'Rrcpv'*

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*Vj ku'r ci g'lpvgpvkpcnd 'ngh'drcpm*





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*J c|ctf qwu'O cygt kn'Ustxgl 'F cw'Tgr qt v'lqt 'Vcpi whuqp'Rqy gt 'Rrcpv'*

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***Asbestos Containing Materials Survey***

Examples of representative ACM materials





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*J c|ctf qwu'O cygt kn'Ustxgl 'F cw'Tgr qt v'lqt 'Vcpi wkuqp'Rqy gt 'Rrcpv'*

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*Vj ku'r ci g'lpvppkqpcnd 'ngh'drcpm*





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*J c|ctf qwu'O cvgt k nu'Ust xgl 'F cw 'Tgr qt v'lt 'Vcpi wkuqp'Rqy gt 'Rrcpv'*



Example of a 2 foot asbestos pipe



Example of a 8 foot asbestos tank



Example of a 3 foot asbestos pipe



Example of a 10 foot asbestos tank



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*J c|ctf qwu'O cygt knu'Ustxgl 'F cw'Tgr qt v'lqt 'Vcpi wkuqp'Rqy gt 'Rrcpv'*



Example of a 4 foot asbestos pipe



Example of a 9 inch asbestos pipe



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*J c|ctf qwu'O cygt kn'Ustxgl 'F cw 'Tgr qt v'lt 'Vcpi whuqp 'Rqy gt 'Rrcpv'*

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### ***LBP Survey***

Examples of representative LBP materials





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*J c|ctf qwu'O cygt kn'Ustxgl 'F cw'Tgr qt v'lqt 'Vcpi wkuqp'Rqy gt 'Rrcpv'*

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*Vj ku'r ci g'lpvgpvkpcnd 'ngh'drcpm*





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*J c|ctf qwu'Ocygt k nu'Ustxgl 'F cw'Tgr qt v'lqt 'Vcpi wkuqp'Rqy gt 'Rrcpv'*



RFO tank



No. 2 light oil storage tank



Bollard



Basement green wall





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*J c|ctf qwu'O cvgt k nu'Ustxgl 'F cw' Tgr qt v' lqt 'Vcpi wkuqp'Rqy gt 'Rrcpv'*



Blue panel



Yellow pipe



White pipe



Grey pipe



"  
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*J c|ctf qwu'Ocygt k'nu'Ustxgl'F cw'Tgrqt v'lqt'Vepi wkuqp'Rqy gt'Rrcpv'*



Grey pipe



Yellow staircase railing



Yellow pipe



Blue panel box



"  
"

*J c|ctf qwu'O cvgt k nu'Ustxgl 'F cw 'Tgr qt v'lt 'Vcpi wkuqp 'Rqy gt 'Rrcpv'*



Condenser valve



Yellow frame



Condenser valve body



Grey catchment



"  
"

J c|ctf qwu'O cvgt k nu'Ust xgl 'F cw 'Tgr qt v'lqt 'Vcpi whu qp'Rqy gt 'Rrcpv'



Blue pipe



Red pipe



White CMU wall



Grey CMU wall



"  
"

*J c|ctf qwu'Ocygt k nu'Ustxgl 'F c w' Tgrqt v' lqt 'Vcpi whuqp'Rqy gt 'Rrcpv'*



Static excitor



Blue switch panel



Black railing



Red, yellow, grey pipes



"  
"

*J c|ctf qwu'O cygt kn'Uwt xgl 'F cw 'Tgr qt v'lt 'Vcpi wkuqp 'Rqy gt 'Rrcpv'*

---

"

## ***PCB Soil Sampling***



"  
"

*J c|ctf qwu'O cygt kn'Ustxgl 'F cw'Tgr qt v'lqt 'Vcpi wkuqp'Rqy gt 'Rrcpv'*

---

"

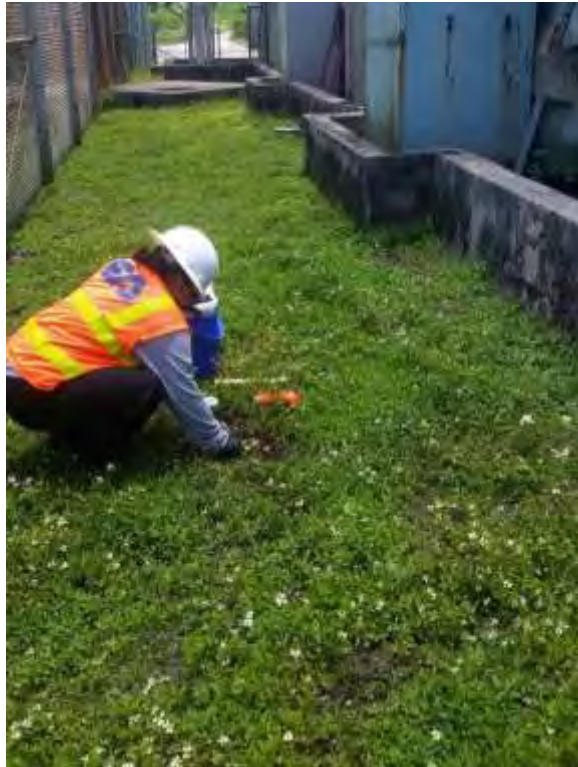
*Vj ku'r ci g'lpvqkqpcnd 'igh'drcpm*





"  
"

*J c|ctf qwu'O cvgt k nu'Ustxgl 'F cw'Tgr qt v'lqt 'Vcpi wkuqp'Rqy gt 'Rrcpv'*



Collecting soil sample TP-s003



Soil sample location TP-S005



Collecting GPS Location of soil sample TP-S001



Soil sample TP-S006





"  
"

*J c|ctf qwu'O cygt knu'Ustxgl 'F cw'Tgr qt v'lqt 'Vcpi wkuqp'Rqy gt 'Rrcpv'*

---

"

*Vj ku'rci g'kpvgrkqpcnt 'ghv'drcpm*





"  
"

*J c|ctf qwu'O cygt kn'Uwt xgl'F cw'Tgr qt v'lqt'Vcpi wkuqp'Rqy gt'Rrcpv'*

---

"

***PCB-Containing Ballast***





"  
"

*J c|ctf qwu'O cygt kn'Ustxgl 'F cw'Tgr qt v'lqt 'Vcpi wkuqp'Rqy gt 'Rrcpv'*

---

"

*Vj ku'r ci g'lpvgpvkpcnd 'ngh'drcpm*





"  
"

J c|ctf qwu'Ocygt knu'Ustxgl 'F cw'Tgrqt v'lqt 'Vcpi whuqp'Rqy gt 'Rrcpv'





"  
"

*J c|ctf qwu'O cygt kn'Ustxgl 'F cw'Tgr qt v'lqt 'Vcpi wkuqp'Rqy gt 'Rrcpv'*

---

"

*Vj ku'r ci g'lpvgpvkpcnd 'ngh'drcpm*





*J c|ctf qwu'O cygt kn'Uwt xgl'F cw'Tgr qt v'lqt'Ve pi wkuqp'Rqy gt'Rrcpv'*

---

**APPENDIX C**

**LABORATORY RESULTS AND CHAIN OF CUSTODY RECORDS**





*J c|ctf qwu'O cygt kn'Uwt xgl'F cw'Tgr qt v'lt'Vcpi wkuqp'Rqy gt'Rrcpv'*

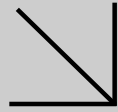
---

*Vj ku'r ci g'kpvgnkqpcnf'igh'drcpm*



Supplemental Report 2

The original report has been revised/corrected.



**WORK ORDER NUMBER: 17-05-1776**

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

**Analytical Report For**

**Client:** EA Engineering

**Client Project Name:** Hazmat Survey - GPA 93156.01

**Attention:** Brenda Nuding  
615 Piikoi Street  
Suite 515  
Honolulu, HI 96814-3116

A handwritten signature in black ink, appearing to read "Carla Hollowell".

Approved for release on 07/21/2017 by:  
Carla Hollowell  
Project Manager

ResultLink ▶

Email your PM ▶

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



# Contents

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Client Project Name: Hazmat Survey - GPA 93156.01  
 Work Order Number: 17-05-1776

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**Condition Upon Receipt:**

Samples were received under Chain-of-Custody (COC) on 05/23/17. They were assigned to Work Order 17-05-1776.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

**Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

**Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

**Additional Comments:**

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

## Case Narrative

Client Project Name: Hazmat Survey - GPA 93156.01  
Work Order Number: 17-05-1776

### CONDITION UPON RECEIPT:

Eurofins Calscience, Inc. received 22 solid samples on May 23, 2017. A total of 22 containers were received in good condition at a temperature of 2.1°C, within the recommended temperature criteria of 0°C – 6°C.

Client Sample ID	Lab Sample ID	Date & Time Sampled	Date & Time Received
DDP-S001	17-05-1776-1	05/10/17 14:22	05/23/17 10:10
DDP-S002	17-05-1776-2	05/10/17 14:25	05/23/17 10:10
DDP-S003	17-05-1776-3	05/10/17 14:29	05/23/17 10:10
DDP-S004	17-05-1776-4	05/10/17 14:32	05/23/17 10:10
DDP-S005	17-05-1776-5	05/10/17 14:34	05/23/17 10:10
DDP-S006	17-05-1776-6	05/10/17 14:38	05/23/17 10:10
DDP-S007	17-05-1776-7	05/10/17 14:41	05/23/17 10:10
DDP-S008	17-05-1776-8	05/10/17 14:44	05/23/17 10:10
DDP-S009	17-05-1776-9	05/10/17 14:50	05/23/17 10:10
DDP-S010	17-05-1776-10	05/10/17 14:52	05/23/17 10:10
DDP-S011	17-05-1776-11	05/10/17 14:00	05/23/17 10:10
TP-S001	17-05-1776-12	05/12/17 11:27	05/23/17 10:10
TP-S002	17-05-1776-13	05/12/17 11:32	05/23/17 10:10
TP-S003	17-05-1776-14	05/12/17 11:38	05/23/17 10:10
TP-S004	17-05-1776-15	05/12/17 11:45	05/23/17 10:10
TP-S005	17-05-1776-16	05/12/17 11:47	05/23/17 10:10
TP-S006	17-05-1776-17	05/12/17 11:51	05/23/17 10:10
TP-S007	17-05-1776-18	05/12/17 12:04	05/23/17 10:10
TP-S008	17-05-1776-19	05/12/17 12:10	05/23/17 10:10
TP-S009	17-05-1776-20	05/12/17 12:13	05/23/17 10:10
TP-S010	17-05-1776-21	05/12/17 12:18	05/23/17 10:10
TP-S011	17-05-1776-22	05/12/17 11:25	05/23/17 10:10

Return to Contents

### DATA SUMMARY:

Pursuant to the chain-of-custody document, the samples were analyzed using the following methodologies:

- EPA 8082 PCB Aroclors

All samples were analyzed within the suggested EPA holding time for the requested methods unless otherwise noted.

Sample results were reported in the RL format.

Any dilutions made to the sample(s) and/or QC will be noted in the following narrative. Reporting limits have been adjusted accordingly.

## Case Narrative

Client Project Name: Hazmat Survey - GPA 93156.01  
Work Order Number: 17-05-1776

Any manual integration made to the data will be noted in the following narrative. The initial and amended chromatograms have been included in the data package.

All samples and analytical QC are within acceptance criteria unless otherwise noted.

### **EPA 8082 PCB Aroclors:**

Samples -1 through -22 were analyzed for PCB Aroclors using EPA Method 8082. The samples were prepared on 05/23/17 and analyzed on 05/25 - 26/17 in batch # 170523L12 / 170523S12 on GC 58 and 170523L13 / 170523S13 on GC 31.

Sample results were reported from the primary column (ECD2 B).

### **Initial Calibration and Initial Calibration Verification:**

- ICAL on 05/19/17 on GC 31:

The ICAL was within the 20% RSD acceptance criteria and the ICV was within the 15% D acceptance criteria for Aroclors 1016 and 1260 on the primary column. Single point response factors were generated for all other Aroclors.

- ICAL on 05/23/17 on GC 58:

The ICAL was within the 20% RSD acceptance criteria and the ICV was within the 15% D acceptance criteria for Aroclors 1254 on the primary column.

### **Continuing Calibration Verification:**

All values were within the 15% D acceptance criteria.

### **Sample and QC:**

- QC Batch # 170523L12 / 170523S12: (Associated with samples -1 through -20)

The method blank was non-detect; the LCS and surrogate recoveries were within acceptance criteria.

Sample -1 was used for the MS/MSD; the MS/MSD % recoveries and MS/MSD RPDs for Aroclor-1016 and /or Aroclor-1260 were above the method control limits due to suspected sample matrix interference.

The following dilutions were performed and reported:

Sample -10: 10x                                  Sample -12: 10x

Manual integration was performed on one or more samples to correct the peak ID and/or baseline integration.

- QC Batch # 170523L13 / 170523S13: (Associated with samples -21 and -22)

Sample -22 was used for the MS/MSD. The method blank was non-detect; the LCS, MS/MSD, and surrogate recoveries were within acceptance criteria except for the MS and MSD % recoveries for Aroclor-1260, which were above the method control limits due to suspected sample matrix interference.

## Sample Summary

Client: EA Engineering	Work Order: 17-05-1776
615 Piikoi Street, Suite 515	Project Name: Hazmat Survey - GPA 93156.01
Honolulu, HI 96814-3116	PO Number: 16405
	Date/Time Received: 05/23/17 10:10
	Number of Containers: 22

Attn: Brenda Nuding

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
DDP-S001	17-05-1776-1	05/10/17 14:22	1	Solid
DDP-S002	17-05-1776-2	05/10/17 14:25	1	Solid
DDP-S003	17-05-1776-3	05/10/17 14:29	1	Solid
DDP-S004	17-05-1776-4	05/10/17 14:32	1	Solid
DDP-S005	17-05-1776-5	05/10/17 14:34	1	Solid
DDP-S006	17-05-1776-6	05/10/17 14:38	1	Solid
DDP-S007	17-05-1776-7	05/10/17 14:41	1	Solid
DDP-S008	17-05-1776-8	05/10/17 14:44	1	Solid
DDP-S009	17-05-1776-9	05/10/17 14:50	1	Solid
DDP-S010	17-05-1776-10	05/10/17 14:52	1	Solid
DDP-S011	17-05-1776-11	05/10/17 14:00	1	Solid
TP-S001	17-05-1776-12	05/12/17 11:27	1	Solid
TP-S002	17-05-1776-13	05/12/17 11:32	1	Solid
TP-S003	17-05-1776-14	05/12/17 11:38	1	Solid
TP-S004	17-05-1776-15	05/12/17 11:45	1	Solid
TP-S005	17-05-1776-16	05/12/17 11:47	1	Solid
TP-S006	17-05-1776-17	05/12/17 11:51	1	Solid
TP-S007	17-05-1776-18	05/12/17 12:04	1	Solid
TP-S008	17-05-1776-19	05/12/17 12:10	1	Solid
TP-S009	17-05-1776-20	05/12/17 12:13	1	Solid
TP-S010	17-05-1776-21	05/12/17 12:18	1	Solid
TP-S011	17-05-1776-22	05/12/17 11:25	1	Solid

## Analytical Report

EA Engineering	Date Received:	05/23/17
615 Piikoi Street, Suite 515	Work Order:	17-05-1776
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DDP-S001	17-05-1776-1-A	05/10/17 14:22	Solid	GC 58	05/23/17	05/25/17 19:50	170523L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	150	50	31	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	34	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	85	24-168	
2,4,5,6-Tetrachloro-m-Xylene	62	25-145	

DDP-S002	17-05-1776-2-A	05/10/17 14:25	Solid	GC 58	05/23/17	05/25/17 20:08	170523L12
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	86	24-168	
2,4,5,6-Tetrachloro-m-Xylene	61	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

EA Engineering  
 615 Piikoi Street, Suite 515  
 Honolulu, HI 96814-3116

Date Received: 05/23/17  
 Work Order: 17-05-1776  
 Preparation: EPA 3545  
 Method: EPA 8082  
 Units: ug/kg

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>DDP-S003</b>	<b>17-05-1776-3-A</b>	<b>05/10/17 14:29</b>	<b>Solid</b>	<b>GC 58</b>	<b>05/23/17</b>	<b>05/25/17 20:26</b>	<b>170523L12</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	280	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	92	24-168	
2,4,5,6-Tetrachloro-m-Xylene	72	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>DDP-S004</b>	<b>17-05-1776-4-A</b>	<b>05/10/17 14:32</b>	<b>Solid</b>	<b>GC 58</b>	<b>05/23/17</b>	<b>05/25/17 20:44</b>	<b>170523L12</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	140	50	32	1.00	
Aroclor-1260	75	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	83	24-168	
2,4,5,6-Tetrachloro-m-Xylene	66	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

EA Engineering	Date Received:	05/23/17
615 Piikoi Street, Suite 515	Work Order:	17-05-1776
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DDP-S005	17-05-1776-5-A	05/10/17 14:34	Solid	GC 58	05/23/17	05/25/17 21:02	170523L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	74	50	32	1.00	
Aroclor-1260	38	50	30	1.00	J
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	67	24-168	
2,4,5,6-Tetrachloro-m-Xylene	55	25-145	

DDP-S006	17-05-1776-6-A	05/10/17 14:38	Solid	GC 58	05/23/17	05/25/17 21:20	170523L12
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	65	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	88	24-168	
2,4,5,6-Tetrachloro-m-Xylene	72	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

EA Engineering  
615 Piikoi Street, Suite 515  
Honolulu, HI 96814-3116

Date Received: 05/23/17  
Work Order: 17-05-1776  
Preparation: EPA 3545  
Method: EPA 8082  
Units: ug/kg

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>DDP-S007</b>	<b>17-05-1776-7-A</b>	<b>05/10/17 14:41</b>	<b>Solid</b>	<b>GC 58</b>	<b>05/23/17</b>	<b>05/25/17 21:38</b>	<b>170523L12</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	54	24-168	
2,4,5,6-Tetrachloro-m-Xylene	82	25-145	

<b>DDP-S008</b>	<b>17-05-1776-8-A</b>	<b>05/10/17 14:44</b>	<b>Solid</b>	<b>GC 58</b>	<b>05/23/17</b>	<b>05/25/17 21:56</b>	<b>170523L12</b>
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	44	24-168	
2,4,5,6-Tetrachloro-m-Xylene	44	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

EA Engineering	Date Received:	05/23/17
615 Piikoi Street, Suite 515	Work Order:	17-05-1776
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>DDP-S009</b>	<b>17-05-1776-9-A</b>	<b>05/10/17 14:50</b>	<b>Solid</b>	<b>GC 58</b>	<b>05/23/17</b>	<b>05/25/17 22:14</b>	<b>170523L12</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	340	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	81	24-168	
2,4,5,6-Tetrachloro-m-Xylene	61	25-145	

DDP-S010	17-05-1776-10-A	05/10/17 14:52	Solid	GC 58	05/23/17	05/26/17 16:52	170523L12
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	500	210	10.0	
Aroclor-1221	ND	500	420	10.0	
Aroclor-1232	ND	500	250	10.0	
Aroclor-1242	ND	500	370	10.0	
Aroclor-1248	ND	500	320	10.0	
Aroclor-1254	4200	500	320	10.0	
Aroclor-1260	ND	500	300	10.0	
Aroclor-1262	ND	500	350	10.0	
Aroclor-1268	ND	500	330	10.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	91	24-168	
2,4,5,6-Tetrachloro-m-Xylene	75	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

EA Engineering  
615 Piikoi Street, Suite 515  
Honolulu, HI 96814-3116

Date Received: 05/23/17  
Work Order: 17-05-1776  
Preparation: EPA 3545  
Method: EPA 8082  
Units: ug/kg

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DDP-S011	17-05-1776-11-A	05/10/17 14:00	Solid	GC 58	05/23/17	05/25/17 22:50	170523L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	50	24-168	
2,4,5,6-Tetrachloro-m-Xylene	68	25-145	

TP-S001	17-05-1776-12-A	05/12/17 11:27	Solid	GC 58	05/23/17	05/26/17 17:10	170523L12
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	500	210	10.0	
Aroclor-1221	ND	500	420	10.0	
Aroclor-1232	ND	500	250	10.0	
Aroclor-1242	ND	500	370	10.0	
Aroclor-1248	ND	500	320	10.0	
Aroclor-1254	2200	500	320	10.0	
Aroclor-1260	1700	500	300	10.0	
Aroclor-1262	ND	500	350	10.0	
Aroclor-1268	ND	500	330	10.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	58	24-168	
2,4,5,6-Tetrachloro-m-Xylene	51	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

EA Engineering  
615 Piikoi Street, Suite 515  
Honolulu, HI 96814-3116

Date Received: 05/23/17  
Work Order: 17-05-1776  
Preparation: EPA 3545  
Method: EPA 8082  
Units: ug/kg

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TP-S002	17-05-1776-13-A	05/12/17 11:32	Solid	GC 58	05/23/17	05/25/17 23:25	170523L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	640	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	24-168	
2,4,5,6-Tetrachloro-m-Xylene	68	25-145	

TP-S003	17-05-1776-14-A	05/12/17 11:38	Solid	GC 58	05/23/17	05/25/17 23:43	170523L12
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	93	50	31	1.00	
Aroclor-1260	280	50	30	1.00	
Aroclor-1262	ND	50	34	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	81	24-168	
2,4,5,6-Tetrachloro-m-Xylene	60	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

EA Engineering  
615 Piikoi Street, Suite 515  
Honolulu, HI 96814-3116

Date Received: 05/23/17  
Work Order: 17-05-1776  
Preparation: EPA 3545  
Method: EPA 8082  
Units: ug/kg

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TP-S004	17-05-1776-15-A	05/12/17 11:45	Solid	GC 58	05/23/17	05/26/17 00:01	170523L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	42	50	32	1.00	J
Aroclor-1260	160	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	80	24-168	
2,4,5,6-Tetrachloro-m-Xylene	65	25-145	

TP-S005	17-05-1776-16-A	05/12/17 11:47	Solid	GC 58	05/23/17	05/26/17 00:19	170523L12
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	370	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	24-168	
2,4,5,6-Tetrachloro-m-Xylene	79	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

EA Engineering	Date Received:	05/23/17
615 Piikoi Street, Suite 515	Work Order:	17-05-1776
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TP-S006	17-05-1776-17-A	05/12/17 11:51	Solid	GC 58	05/23/17	05/26/17 00:37	170523L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	54	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	79	24-168	
2,4,5,6-Tetrachloro-m-Xylene	55	25-145	

TP-S007	17-05-1776-18-A	05/12/17 12:04	Solid	GC 58	05/23/17	05/26/17 00:55	170523L12
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	170	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	67	24-168	
2,4,5,6-Tetrachloro-m-Xylene	55	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

EA Engineering  
615 Piikoi Street, Suite 515  
Honolulu, HI 96814-3116

Date Received: 05/23/17  
Work Order: 17-05-1776  
Preparation: EPA 3545  
Method: EPA 8082  
Units: ug/kg

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TP-S008	17-05-1776-19-A	05/12/17 12:10	Solid	GC 58	05/23/17	05/26/17 01:13	170523L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	86	24-168	
2,4,5,6-Tetrachloro-m-Xylene	76	25-145	

TP-S009	17-05-1776-20-A	05/12/17 12:13	Solid	GC 58	05/23/17	05/26/17 01:31	170523L12
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	36	50	30	1.00	J
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	88	24-168	
2,4,5,6-Tetrachloro-m-Xylene	54	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

EA Engineering  
615 Piikoi Street, Suite 515  
Honolulu, HI 96814-3116

Date Received: 05/23/17  
Work Order: 17-05-1776  
Preparation: EPA 3545  
Method: EPA 8082  
Units: ug/kg

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TP-S010	17-05-1776-21-A	05/12/17 12:18	Solid	GC 31	05/23/17	05/25/17 11:37	170523L13

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	31	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	34	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	111	24-168	
2,4,5,6-Tetrachloro-m-Xylene	101	25-145	

TP-S011	17-05-1776-22-A	05/12/17 11:25	Solid	GC 31	05/23/17	05/25/17 11:56	170523L13
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	520	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	121	24-168	
2,4,5,6-Tetrachloro-m-Xylene	91	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

EA Engineering	Date Received:	05/23/17
615 Piikoi Street, Suite 515	Work Order:	17-05-1776
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-15-959-203</b>	<b>N/A</b>	<b>Solid</b>	<b>GC 58</b>	<b>05/23/17</b>	<b>05/25/17 18:20</b>	<b>170523L12</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	109	24-168	
2,4,5,6-Tetrachloro-m-Xylene	80	25-145	

Method Blank	099-15-959-200	N/A	Solid	GC 31	05/23/17	05/25/17 10:42	170523L13
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	113	24-168	
2,4,5,6-Tetrachloro-m-Xylene	89	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

**Quality Control - Spike/Spike Duplicate**

EA Engineering  
615 Piikoi Street, Suite 515  
Honolulu, HI 96814-3116

Date Received: 05/23/17  
Work Order: 17-05-1776  
Preparation: EPA 3545  
Method: EPA 8082

Project: Hazmat Survey - GPA 93156.01

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
TP-S011	Sample	Solid	GC 31	05/23/17	05/25/17 11:56	170523S13
TP-S011	Matrix Spike	Solid	GC 31	05/23/17	05/25/17 12:15	170523S13
TP-S011	Matrix Spike Duplicate	Solid	GC 31	05/23/17	05/25/17 12:34	170523S13

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	66.34	66	67.50	68	50-135	2	0-20	
Aroclor-1260	517.4	100.0	274.8	0	269.5	0	50-135	2	0-25	3

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

EA Engineering  
615 Piikoi Street, Suite 515  
Honolulu, HI 96814-3116

Date Received: 05/23/17  
Work Order: 17-05-1776  
Preparation: EPA 3545  
Method: EPA 8082

Project: Hazmat Survey - GPA 93156.01

Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
<b>DDP-S001</b>	<b>Sample</b>	<b>Solid</b>	<b>GC 58</b>	<b>05/23/17</b>	<b>05/25/17 19:50</b>	<b>170523S12</b>
<b>DDP-S001</b>	<b>Matrix Spike</b>	<b>Solid</b>	<b>GC 58</b>	<b>05/23/17</b>	<b>05/25/17 18:56</b>	<b>170523S12</b>
<b>DDP-S001</b>	<b>Matrix Spike Duplicate</b>	<b>Solid</b>	<b>GC 58</b>	<b>05/23/17</b>	<b>05/25/17 19:14</b>	<b>170523S12</b>

<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Aroclor-1016	ND	100.0	80.50	80	46.07	46	50-135	54	0-20	3,4
Aroclor-1260	ND	100.0	144.0	144	77.11	77	50-135	60	0-25	3,4

  
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RPD: Relative Percent Difference. CL: Control Limits

## Quality Control - LCS

EA Engineering	Date Received:	05/23/17
615 Piikoi Street, Suite 515	Work Order:	17-05-1776
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
Project: Hazmat Survey - GPA 93156.01		Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-15-959-200</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 31</b>	<b>05/23/17</b>	<b>05/25/17 11:00</b>	<b>170523L13</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Aroclor-1016		100.0	112.0	112	50-135	
Aroclor-1260		100.0	117.0	117	50-135	

## Quality Control - LCS

EA Engineering	Date Received:	05/23/17
615 Piikoi Street, Suite 515	Work Order:	17-05-1776
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
Project: Hazmat Survey - GPA 93156.01		Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-15-959-203</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 58</b>	<b>05/23/17</b>	<b>05/25/17 18:38</b>	<b>170523L12</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Aroclor-1016		100.0	70.50	70	50-135	
Aroclor-1260		100.0	77.00	77	50-135	

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494  
For courier service / sample drop off information, contact us26\_sales@eurofins.com or call us.

LABORATORY CLIENT: EA Engineering, Science, and Technology, Inc. PBC

ADDRESS: 1001 Army Drive, Suite 103

CITY: Barrigada

STATE: GU ZIP: 96913

TEL: 671-646-5231

E-MAIL: rshambach@eaeast.com, bnruding@eaeast.com

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

COELT EDF

LOG CODE:

SPECIAL INSTRUCTIONS:

# CHAIN OF CUSTODY RECORD

DATE: 05/22/17

WC# / LAB USE ONLY:  
**17-05-1776**

PAGE: 1

OF 3

CLIENT PROJECT NAME / NUMBER:  
Hazmat Survey - GPA 63156.01

P.O. NO.: 16405

PROJECT CONTACT:  
Brenda Nuding (Chemist); Bob Shambach (PM)

SAMPLER(S): (PRINT)  
Robert Shambach/Jaquay Soriano

## REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Field Filtered	Preserved	Unpreserved	TPH(g) <input type="checkbox"/> GRO	TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	Oxygenates (8260)	VOCs (8260)	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	
1	DDP-S001	5/10/2017	1422	SOIL	1			X									X				
2	DDP-S002	5/10/2017	1425	SOIL	1			X									X				
3	DDP-S003	5/10/2017	1429	SOIL	1			X									X				
4	DDP-S004	5/10/2017	1432	SOIL	1			X									X				
5	DDP-S005	5/10/2017	1434	SOIL	1			X									X				
6	DDP-S006	5/10/2017	1438	SOIL	1			X									X				
7	DDP-S007	5/10/2017	1441	SOIL	1			X									X				
8	DDP-S008	5/10/2017	1444	SOIL	1			X									X				
9	DDP-S009	5/10/2017	1450	SOIL	1			X									X				
10	DDP-S010	5/10/2017	1452	SOIL	1			X									X				

Received by: (Signature/Affiliation)

Date: 5/23/17

Time: 1010

Received by: (Signature/Affiliation)

Date: 5/23/17

Time: 1010

Received by: (Signature/Affiliation)

Date: 5/23/17

Time: 1010

Relinquished by: (Signature)  
*Robert Shambach* 5/22/17 @ 12:15pm

Relinquished by: (Signature)

Relinquished by: (Signature)



Return to Contents



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STATE: GU

ZIP: 96913

TEL: 671-646-5231

E-MAIL: rshambach@eaest.com, brnuding@eaest.com

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

COELT EDF

LOG CODE:

SPECIAL INSTRUCTIONS:

# CHAIN OF CUSTODY RECORD

DATE: 05/22/17

PAGE: 2 OF 3

WO # / LAB USE ONLY  
**05-1776**

CLIENT PROJECT NAME / NUMBER:

Hazmat Survey - GPA 63156.01

PROJECT CONTACT:

Brenda Nuding (Chemist); Bob Shambach (PM)

P.O. NO.:

16405

SAMPLER(S): (PRINT)

Robert Shambach/Jaquay Soriano

## REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Field Filtered	Preserved	Unpreserved	TPH (g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	
11	DDP-S011	5/10/2017	1400	SOIL	1			X										X				
12	TP-S001	5/12/2017	1127	SOIL	1			X										X				
13	TP-S002	5/12/2017	1132	SOIL	1			X										X				
14	TP-S003	5/12/2017	1138	SOIL	1			X										X				
15	TP-S004	5/12/2017	1145	SOIL	1			X										X				
16	TP-S005	5/12/2017	1147	SOIL	1			X										X				
17	TP-S006	5/12/2017	1151	SOIL	1			X										X				
18	TP-S007	5/12/2017	1204	SOIL	1			X										X				
19	TP-S008	5/12/2017	1210	SOIL	1			X										X				
20	TP-S009	5/12/2017	1213	SOIL	1			X										X				

Received by: (Signature/Affiliation)

Relinquished by (Signature)  
*Robert Shambach* 5/22/17 5:15pm

Received by: (Signature/Affiliation)

Relinquished by: (Signature)

Received by: (Signature/Affiliation)

Relinquished by: (Signature)

Date: 5/23/17

Date: 1010

Date:





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E-MAIL: rshambach@eaest.com, brunding@eaest.com

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SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

GLOBAL ID:

LOG CODE:

SPECIAL INSTRUCTIONS:

# CHAIN OF CUSTODY RECORD

DATE: 05/22/17

PAGE: 3 OF 3

WO # / LAB USE ONLY:  
05 - 1776

CLIENT PROJECT NAME / NUMBER:

Hazmat Survey - GPA 63156.01

PROJECT CONTACT:

Brenda Nuding (Chemist); Bob Shambach (PM)

P.O. NO.:

16405

SAMPLER(S): (PRINT)

Robert Shambach/Jaquay Soriano

## REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Field Filtered	Preserved	Unpreserved	TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C14	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	
21	TP-S010	5/12/2017	1218	SOIL	1			X										X				
22	TP-S011	5/12/2017	1125	SOIL	1			X										X				
23	TEMP BLANK	5/12/2017	--	WATER	1			X														

Received by: (Signature/Affiliation)

Date: 5/23/17

Time: 1010

Relinquished by: (Signature)

Date: 5/23/17

Time: 1010

Relinquished by: (Signature)

Date:

Time:

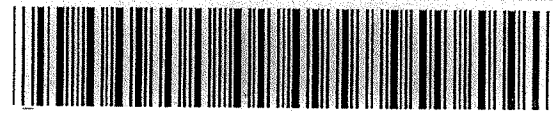
Relinquished by: (Signature) *Shambach* 5/22/17 01215 pm

1776

**FedEx** International Air Waybill  
Express

Origin

**1 From**  
Date: 05/22/17 Sender's FedEx Account Number: 3175-5776-0  
Sender's Name: ROBERT SHAMBACH Phone: 671-646-5231  
Company: EA ENGR SCIENCE & TECHNOLOGY  
Address: 1006 ARMY DRIVE SUITE 103  
City: BARRIGADA State Province: GU  
Country: GU ZIP Postal Code: 969131402  
Email Address: rshambach@eaest.com  
Internal Billing Reference: GPA 63156.01



FedEx Tracking Number: 8115 3314 1556 0402 Form ID No.

**2 To**  
Residential Delivery:  28  
Recipient's Name: CARLA HOLLOWELL Phone: 714-895-5494  
Company: EUROFINS CALSCIENCE  
Address: 7440 LINCOLN WAY  
City: GARDEN GROVE State Province: CA  
Country: USA ZIP Postal Code: 92814-1427  
Email Address: Carla.HOLLOWELL@EurofinsUS.com  
Recipient's Tax ID Number for Customs Purposes:

**4 Express Package Service**  
NOTE: Service order has changed. Please select carefully.  
06  FedEx Intl. First 07  FedEx Intl. Priority 08  FedEx Intl. Economy  
**5 Packaging**  
06  FedEx Envelope 02  FedEx Pak 03  FedEx Box 04  FedEx Tube  
15  FedEx 10kg Box 25  FedEx 25kg Box 01  Other Cooler  
**6 Special Handling and Delivery Signature Options** Fees may apply. See the FedEx Service Guide.  
01  HOLD at FedEx Location 03  SATURDAY Delivery  
10  Direct Signature Someone at recipient's address may sign for delivery. 34  Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

**3 Shipment Information**  
Total Packages: 1 Total Weight: 23 lbs 18 11 15 in cm  
Shipper's Load and Count/SLAC: DIM  
Commodity Description: Environmental SOIL SAMPLES  
Harmonized Code: Value for Customs: \$1.00  
Country of Manufacture: Value for Customs: \$1.00  
Has EEI been filed in AES?  No EEI required, value \$2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.  
Total Declared Value for Carriage: \$1.00  
Total Value for Customs (Specify Currency): \$1.00  
If other than NLR, enter License Exception:

**7 Payment** Complete payment options for both transportation charges and duties and taxes.  
Bill transportation charges to:  
1  Sender, Acct. No. in Section 1 will be billed. 2  Recipient 3  Third Party 4  Credit Card 5  Cash Check/Check  
Bill duties and taxes to:  
1  Sender, Acct. No. in Section 1 will be billed. 2  Recipient 3  Third Party 5  Cash Check/Check

**8 Required Signature**  
Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not contain dangerous goods.  
Sender's Signature: [Signature]  
Recipient's Signature: [Signature]  
Origin Station ID: SULL Country Code: AAH Destination Station ID: WJL Routing: APV Handling Units: 6  
Received At: 1  Reg. Stop 2  On-Call Stop 3  Drop Box 4  World Service Center 5  Station Forms Attached:  CI

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: EA Eng

DATE: 05/23/2017

**TEMPERATURE:** (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC3 (CF: 0.0°C); Temperature (w/o CF): 2.1 °C (w/ CF): 2.1 °C;  Blank  Sample

Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature:  Air  Filter

Checked by: 15

**CUSTODY SEAL:**

Cooler  Present and Intact  Present but Not Intact  Not Present  N/A Checked by: 15

Sample(s)  Present and Intact  Present but Not Intact  Not Present  N/A Checked by: 687

**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers			
<input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time			
Sampler's name indicated on COC .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and in good condition .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sufficient volume/mass for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within holding time .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples for certain analyses received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation chemical(s) noted on COC and/or sample container .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Unpreserved aqueous sample(s) received for certain analyses	<input checked="" type="checkbox"/>		
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Total Metals <input type="checkbox"/> Dissolved Metals			
Container(s) for certain analysis free of headspace .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500)			
<input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:** (Trip Blank Lot Number: \_\_\_\_\_)

**Aqueous:**  VOA  VOA<sub>h</sub>  VOA<sub>na<sub>2</sub></sub>  100PJ  100PJ<sub>na<sub>2</sub></sub>  125AGB  125AGB<sub>h</sub>  125AGB<sub>p</sub>  125PB

125PB<sub>z<sub>na</sub></sub>  250AGB  250CGB  250CGB<sub>s</sub>  250PB  250PB<sub>n</sub>  500AGB  500AGJ  500AGJ<sub>s</sub>

500PB  1AGB  1AGB<sub>na<sub>2</sub></sub>  1AGB<sub>s</sub>  1PB  1PB<sub>na</sub>  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

**Solid:**  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (\_\_\_\_\_)  EnCores® (\_\_\_\_\_)  TerraCores® (\_\_\_\_\_)  \_\_\_\_\_

**Air:**  Tedlar™  Canister  Sorbent Tube  PUF  \_\_\_\_\_ **Other Matrix** (\_\_\_\_):  \_\_\_\_\_  \_\_\_\_\_

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO<sub>3</sub>, **na** = NaOH, **na<sub>2</sub>** = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, **p** = H<sub>3</sub>PO<sub>4</sub>, Labeled/Checked by: 687

**s** = H<sub>2</sub>SO<sub>4</sub>, **u** = ultra-pure, **x** = Na<sub>2</sub>SO<sub>3</sub>+NaHSO<sub>4</sub>.H<sub>2</sub>O, **z<sub>na</sub>** = Zn (CH<sub>3</sub>CO<sub>2</sub>)<sub>2</sub> + NaOH Reviewed by: 103

# EPA METHOD 8082 PCB

## RAW DATA

# EPA METHOD 8082 PCB

## Initial Calibration

# INITIAL CALIBRATION QUALITY CONTROL SUMMARY FOR METHOD: EPA 8082

ICAL WORK ORDER: 099-15-958-420-6572  
ICAL BATCH ID: 1705191001  
INSTRUMENT: GC 31

ANALYZED BY: 669  
ICAL D/T ANALYZED: 2017-05-19 11:53  
REVIEWED BY: 27  
D/T REVIEWED: 2017-05-23 09:43

COMPOUND	COMP. TYPE	CALIB. MODEL	1	2	3	4	5	6	7	8	9	Avg. RF	Min. RF	%RSD CL	R <sup>2</sup> CL	R or R <sup>2</sup> CL	STATUS
Atoclor-1016	C	Avg RF	18,868,619	17,848,487	17,615,18	17,036,849	16,058,59					17.48	0.00	6	0-20		PASS
Atoclor-1260	C	Avg RF	26,576,849	25,998,946	26,658,42	25,969,747	26,034,59					26.24	0.00	1	0-20		PASS
												5.545					

**Data Files:**

Level #	D/T Analyzed	Data File
1	2017-05-19 11:53	/chem1/SVOA/GC_31/170519/b1705190117051901
2	2017-05-19 12:12	/chem1/SVOA/GC_31/170519/b1705190217051902
3	2017-05-19 12:31	/chem1/SVOA/GC_31/170519/b1705190317051903
4	2017-05-19 12:50	/chem1/SVOA/GC_31/170519/b1705190417051904
5	2017-05-19 13:09	/chem1/SVOA/GC_31/170519/b1705190517051905

LR - E: Linear Regression (Equal Weight)  
Avg RF: Average Response Factor

LR - IC: Linear Regression (Inverse Concentration Weight)  
QR - E: Quadratic Regression (Equal Weight)

LR - ISC: Linear Regression (Inverse Square Concentration Weight)



# INITIAL CALIBRATION VERIFICATION QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**ICV WORK ORDER:** 099-15-958-420-6572  
**INITIAL BATCH:** 1705191001  
**INSTRUMENT:** GC 31

**ANALYZED BY:** 669  
**D/T ANALYZED:** 2017-05-19 11:53  
**INITIAL:** 2017-05-19 13:28  
**ICV:** 27  
**REVIEWED BY:** 2017-05-23 09:43  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_31/170519/b1705190617051906

COMPOUND NAME	COMP TYPE	CALIB MODEL		MIN RF	AVG RF	ICV RF	AMOUNT	ICV CONC	ICV %D	ICV %D CL	STATUS
		Avg Resp	Avg Resp								
Aroclor-1016	C	Avg Resp	Avg Resp	0.00	1748545.465	19218464.524			-10	0-15	PASS
Aroclor-1260	C	Avg Resp	Avg Resp	0.00	26247714.113	29117156.310			-11	0-15	PASS

MIN RF: Method Specified Minimum Response Factor

Report Date : 19-May-2017 16:12

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Eurofins Calscience

INITIAL CALIBRATION DATA

Start Cal Date : 20-FEB-2017 15:04  
 End Cal Date : 19-MAY-2017 14:44  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP Genie  
 Method file : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Cal Date : 19-May-2017 16:10 src3  
 Curve Type : Average

Calibration File Names:

Level 1: /chem1/SVOA/GC\_31.i/170519.b/b17051901.d  
 Level 2: /chem1/SVOA/GC\_31.i/170519.b/b17051902.d  
 Level 3: /chem1/SVOA/GC\_31.i/170519.b/b17051910.d  
 Level 4: /chem1/SVOA/GC\_31.i/170519.b/b17051904.d  
 Level 5: /chem1/SVOA/GC\_31.i/170519.b/b17051905.d

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	750.000 Level 4	2000.000 Level 5	RRF	% RSD
M 2 Aroclor-1016	18868619	17848487	17615181	17036849	16058591	17485545	6
3 Aroclor 1016 (1)	2026787	1812154	1753570	1674589	1533787	1760177	10
4 Aroclor 1016 (2)	3578255	3316365	3197023	3067526	2822327	3196299	9
5 Aroclor 1016 (3)	7842761	7480713	7467663	7273882	6969688	7406941	4
6 Aroclor 1016 (4)	3334330	3243336	3196861	3084677	2889213	3149684	5
7 Aroclor 1016 (5)	2086486	1995919	2000064	1936175	1843577	1972444	5
M 8 Aroclor-1260	26576849	25998946	26658429	25969747	26034599	26247714	1
9 Aroclor 1260 (1)	9159306	8931688	9105015	8822152	8810512	8965734	2
10 Aroclor 1260 (2)	6715142	6596937	6767859	6588651	6576294	6648977	1
11 Aroclor 1260 (3)	5578495	5428638	5512414	5363617	5326809	5441995	2
12 Aroclor 1260 (4)	1798575	1807070	1977221	2012603	2154264	1949946	8
13 Aroclor 1260 (5)	3325332	3234614	3295921	3182724	3166720	3241062	2
M 14 Aroclor-1221	++++	++++	5142160	++++	++++	5142160	0
15 Aroclor 1221 (1)	++++	++++	768830	++++	++++	768830	0
16 Aroclor 1221 (2)	++++	++++	1031793	++++	++++	1031793	0
17 Aroclor 1221 (3)	++++	++++	625994	++++	++++	625994	0
18 Aroclor 1221 (4)	++++	++++	2470569	++++	++++	2470569	0
19 Aroclor 1221 (5)	++++	++++	244975	++++	++++	244975	0
M 20 Aroclor-1232	++++	++++	9539913	++++	++++	9539913	0
21 Aroclor 1232 (1)	++++	++++	1913448	++++	++++	1913448	0
22 Aroclor 1232 (2)	++++	++++	1568967	++++	++++	1568967	0
23 Aroclor 1232 (3)	++++	++++	3560651	++++	++++	3560651	0



Report Date : 19-May-2017 16:12

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## Eurofins Calscience

## INITIAL CALIBRATION DATA

Start Cal Date : 20-FEB-2017 15:04  
 End Cal Date : 19-MAY-2017 14:44  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP Genie  
 Method file : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Cal Date : 19-May-2017 16:10 src3  
 Curve Type : Average

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	750.000 Level 4	2000.000 Level 5	RRF	% RSD
24 Aroclor 1232 (4)	++++	++++	1524428	++++	++++	1524428	0
25 Aroclor 1232 (5)	++++	++++	972418	++++	++++	972418	0
M 26 Aroclor-1242	++++	++++	16011378	++++	++++	16011378	0
27 Aroclor 1242 (1)	++++	++++	1579317	++++	++++	1579317	0
28 Aroclor 1242 (2)	++++	++++	2929497	++++	++++	2929497	0
29 Aroclor 1242 (3)	++++	++++	6779076	++++	++++	6779076	0
30 Aroclor 1242 (4)	++++	++++	2913443	++++	++++	2913443	0
31 Aroclor 1242 (5)	++++	++++	1810045	++++	++++	1810045	0
M 32 Aroclor-1248	++++	++++	11895345	++++	++++	11895345	0
33 Aroclor 1248 (1)	++++	++++	3770988	++++	++++	3770988	0
34 Aroclor 1248 (2)	++++	++++	1479013	++++	++++	1479013	0
35 Aroclor 1248 (3)	++++	++++	841289	++++	++++	841289	0
36 Aroclor 1248 (4)	++++	++++	3746382	++++	++++	3746382	0
37 Aroclor 1248 (5)	++++	++++	2057673	++++	++++	2057673	0
M 38 Aroclor-1254	++++	++++	23710055	++++	++++	23710055	0
39 Aroclor 1254 (1)	++++	++++	2928854	++++	++++	2928854	0
40 Aroclor 1254 (2)	++++	++++	6042364	++++	++++	6042364	0
41 Aroclor 1254 (3)	++++	++++	5671079	++++	++++	5671079	0
42 Aroclor 1254 (4)	++++	++++	5366000	++++	++++	5366000	0
43 Aroclor 1254 (5)	++++	++++	3701758	++++	++++	3701758	0
M 44 Aroclor-1262	++++	++++	31250690	++++	++++	31250690	0
45 Aroclor 1262 (1)	++++	++++	6626903	++++	++++	6626903	0
46 Aroclor 1262 (2)	++++	++++	9891096	++++	++++	9891096	0
47 Aroclor 1262 (3)	++++	++++	7058923	++++	++++	7058923	0
48 Aroclor 1262 (4)	++++	++++	2375066	++++	++++	2375066	0
49 Aroclor 1262 (5)	++++	++++	5298703	++++	++++	5298703	0
M 50 Aroclor-1268	++++	++++	95127285	++++	++++	95127285	0
51 Aroclor 1268 (1)	++++	++++	20442092	++++	++++	20442092	0
52 Aroclor 1268 (2)	++++	++++	18963093	++++	++++	18963093	0

Report Date : 19-May-2017 16:12

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## Eurofins Calscience

## INITIAL CALIBRATION DATA

Start Cal Date : 20-FEB-2017 15:04  
 End Cal Date : 19-MAY-2017 14:44  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP Genie  
 Method file : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Cal Date : 19-May-2017 16:10 src3  
 Curve Type : Average

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	750.000 Level 4	2000.000 Level 5	RRF	% RSD
53 Aroclor 1268 (3)	++++	++++	12981442	++++	++++	12981442	0
54 Aroclor 1268 (4)	++++	++++	5893626	++++	++++	5893626	0
55 Aroclor 1268 (5)	++++	++++	36847032	++++	++++	36847032	0
\$ 1 2,4,5,6-Tetrachloro-m-xylene	100032794	99336365	102459591	100950466	100571656	100670175	1
\$ 56 Decachlorobiphenyl	102035936	100998441	103160633	99865845	102245403	101661252	1

Report Date : 19-May-2017 16:12

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## Eurofins Calscience

## INITIAL CALIBRATION DATA

Start Cal Date : 20-FEB-2017 15:04  
End Cal Date : 19-MAY-2017 14:44  
Quant Method : ESTD  
Origin : Disabled  
Target Version : 3.50  
Integrator : HP Genie  
Method file : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
Cal Date : 19-May-2017 16:10 src3  
Curve Type : Average

Average %RSD Results.	
-----	
Calculated Average %RSD =	4.13435
Maximum Average %RSD =	20.00000
* Passed Average %RSD Test.	

Data File: /chem1/SVOA/GC\_31.i/170519.b/b17051906.d  
 Report Date: 05/19/2017 16:11

Eurofins CalScience  
 Calibration Verification Report

Instrument ID: GC\_31.i                              Injection Date and Time: 19-MAY-2017 13:28  
 Sample Name: ICV P051717H                              Initial Calibration Date(s): 20-FEB-2017 19-MAY-2017  
 Sublist used: p1016\_1260.sub                              Initial Calibration Time(s):    15:04                              14:44  
 Method used: /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
Aroclor-1016	17485545.466	19218464.524	0.01	-10	15	Averaged
Aroclor 1016 (1)	1760177.318	2026882.910	0.01	-15	15	Averaged
Aroclor 1016 (2)	3196299.334	3438964.584	0.01	-8	15	Averaged
Aroclor 1016 (3)	7406941.175	8115393.226	0.01	-10	15	Averaged
Aroclor 1016 (4)	3149683.514	3463435.428	0.01	-10	15	Averaged
Aroclor 1016 (5)	1972444.125	2173788.376	0.01	-10	15	Averaged
Aroclor 1260 (4)	1949946.445	1875217.236	0.01	4	15	Averaged
Aroclor-1260	26247714.113	29117156.309	0.01	-11	15	Averaged
Aroclor 1260 (5)	3241062.132	3623989.624	0.01	-12	15	Averaged
Aroclor 1260 (1)	8965734.278	10485110.191	0.01	-17	15	Averaged
Aroclor 1260 (2)	6648976.710	7215188.474	0.01	-9	15	Averaged
Aroclor 1260 (3)	5441994.549	5917650.784	0.01	-9	15	Averaged
-----						
Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
2,4,5,6-Tetrachloro-m-xylene	100670174.518	99959108.067	0.01	1	15	Averaged
Decachlorobiphenyl	101661251.558	105117099.449	0.01	-3	15	Averaged

<-Failed

Data File: /chem1/SVOA/GC\_31.i/170519.b/b17051901.d  
 Report Date: 19-May-2017 16:10

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Eurofins Calscience

EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170519.b/b17051901.d  
 Lab Smp Id:  
 Inj Date : 19-MAY-2017 11:53  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : ICAL-1 P051717F  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Meth Date : 19-May-2017 16:10 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 11:53 Cal File: b17051901.d  
 Als bottle: 1 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
\$ 1 2,4,5,6-Tetrachloro-m-xylene	4.965	4.965	0.000	2000655885	20.0000	19.9
M 2 Aroclor-1016				1886861926	100.000	108
3 Aroclor 1016 (1)	5.495	5.495	0.000	202678745	100.000	115
4 Aroclor 1016 (2)	5.979	5.979	0.000	357825500	100.000	112
5 Aroclor 1016 (3)	6.587	6.587	0.000	784276089	100.000	106
6 Aroclor 1016 (4)	6.754	6.754	0.000	333433031	100.000	106
7 Aroclor 1016 (5)	6.833	6.833	0.000	208648561	100.000	106
M 8 Aroclor-1260				2657684923	100.000	101
9 Aroclor 1260 (1)	9.004	9.004	0.000	915930560	100.000	102
10 Aroclor 1260 (2)	9.448	9.448	0.000	671514155	100.000	101
11 Aroclor 1260 (3)	9.728	9.728	0.000	557849497	100.000	102
12 Aroclor 1260 (4)	10.799	10.799	0.000	179857528	100.000	92.2 (a)
13 Aroclor 1260 (5)	11.084	11.084	0.000	332533183	100.000	103
\$ 56 Decachlorobiphenyl	11.612	11.612	0.000	2040718711	20.0000	20.1

QC Flag Legend

a - Target compound detected but, quantitated amount  
 Below Limit Of Quantitation(BLOQ).

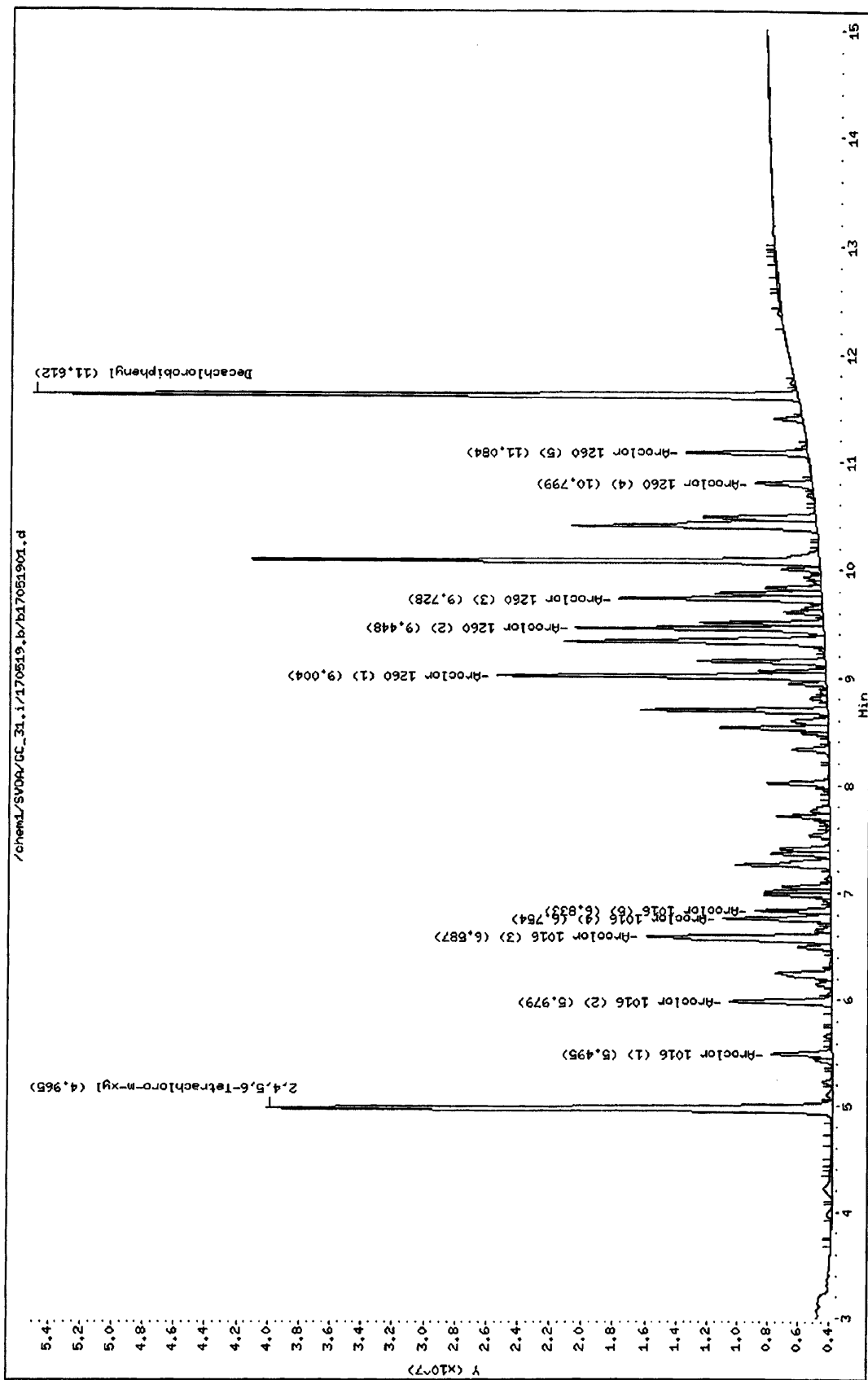
Data File: /chem1/SVDA/CC\_31.i/170519.b/17051901.d  
Date : 19-MAY-2017 11:53  
Client ID:  
Sample Info: ICAL-1 P051717F

Instrument: GC\_31.i

Operator: 944

Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_31.i/170519.b/b17051902.d  
 Report Date: 19-May-2017 16:10

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Eurofins Calscience

EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170519.b/b17051902.d  
 Lab Smp Id:  
 Inj Date : 19-MAY-2017 12:12  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : ICAL-2 P051717E  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Meth Date : 19-May-2017 16:10 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 12:12 Cal File: b17051902.d  
 Als bottle: 2 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
\$ 1 2,4,5,6-Tetrachloro-m-xylene	4.966	4.966	0.000	4966818265	50.0000	49.3
M 2 Aroclor-1016				4462121733	250.000	255
3 Aroclor 1016 (1)	5.495	5.495	0.000	453038397	250.000	257
4 Aroclor 1016 (2)	5.980	5.980	0.000	829091308	250.000	259
5 Aroclor 1016 (3)	6.586	6.586	0.000	1870178222	250.000	252
6 Aroclor 1016 (4)	6.755	6.755	0.000	810834083	250.000	257
7 Aroclor 1016 (5)	6.834	6.834	0.000	498979723	250.000	253
M 8 Aroclor-1260				6499736563	250.000	248
9 Aroclor 1260 (1)	9.005	9.005	0.000	2232921898	250.000	249
10 Aroclor 1260 (2)	9.450	9.450	0.000	1649234267	250.000	248
11 Aroclor 1260 (3)	9.731	9.731	0.000	1357159505	250.000	249
12 Aroclor 1260 (4)	10.800	10.800	0.000	451767472	250.000	232
13 Aroclor 1260 (5)	11.086	11.086	0.000	808653421	250.000	250
\$ 56 Decachlorobiphenyl	11.614	11.614	0.000	5049922070	50.0000	49.7

Data File: /chem1/SV0A/GC\_31.i/170519.b/b17051902.d

Date : 19-MAY-2017 12:12

Client ID:

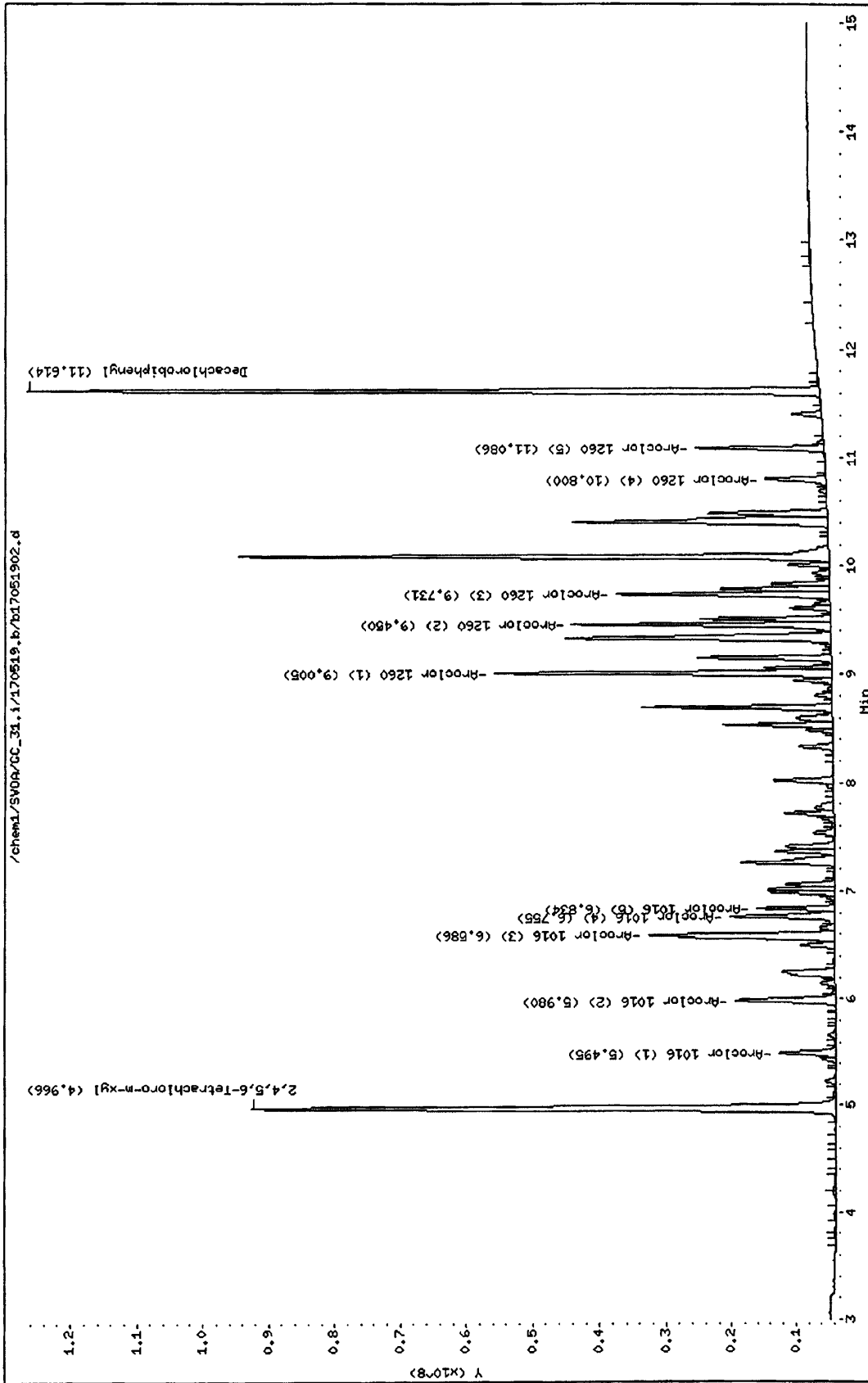
Sample Info: ICAL-2 P051717E

Instrument: GC\_31.i

Operator: 944

Column diameter: 2.00

Column phase:





Data File: /chem1/SVOA/GC\_31.i/170519.b/b17051903.d  
 Report Date: 19-May-2017 16:10

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Eurofins Calscience

EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170519.b/b17051903.d  
 Lab Smp Id:  
 Inj Date : 19-MAY-2017 12:31  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : ICAL-3 P051717D  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Meth Date : 19-May-2017 16:10 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 3 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
\$ 1 2,4,5,6-Tetrachloro-m-xylene	4.966	4.966	0.000	10245959108	100.000	102
M 2 Aroclor-1016				8807590670	500.000	504
3 Aroclor 1016 (1)	5.495	5.495	0.000	876784797	500.000	498
4 Aroclor 1016 (2)	5.980	5.980	0.000	1598511731	500.000	500
5 Aroclor 1016 (3)	6.586	6.586	0.000	3733831326	500.000	504
6 Aroclor 1016 (4)	6.755	6.755	0.000	1598430744	500.000	507
7 Aroclor 1016 (5)	6.832	6.832	0.000	1000032072	500.000	507
M 8 Aroclor-1260				13329214701	500.000	508
9 Aroclor 1260 (1)	9.003	9.003	0.000	4552507274	500.000	508
10 Aroclor 1260 (2)	9.450	9.450	0.000	3383929712	500.000	509
11 Aroclor 1260 (3)	9.730	9.730	0.000	2756207031	500.000	506
12 Aroclor 1260 (4)	10.799	10.799	0.000	988610311	500.000	507
13 Aroclor 1260 (5)	11.084	11.084	0.000	1647960373	500.000	508
\$ 56 Decachlorobiphenyl	11.614	11.614	0.000	10316063296	100.000	101

Data File: /chem1/SVDA/GC\_31.i/170519.b/b17051903.d

Date : 19-MAY-2017 12:31

Client ID:

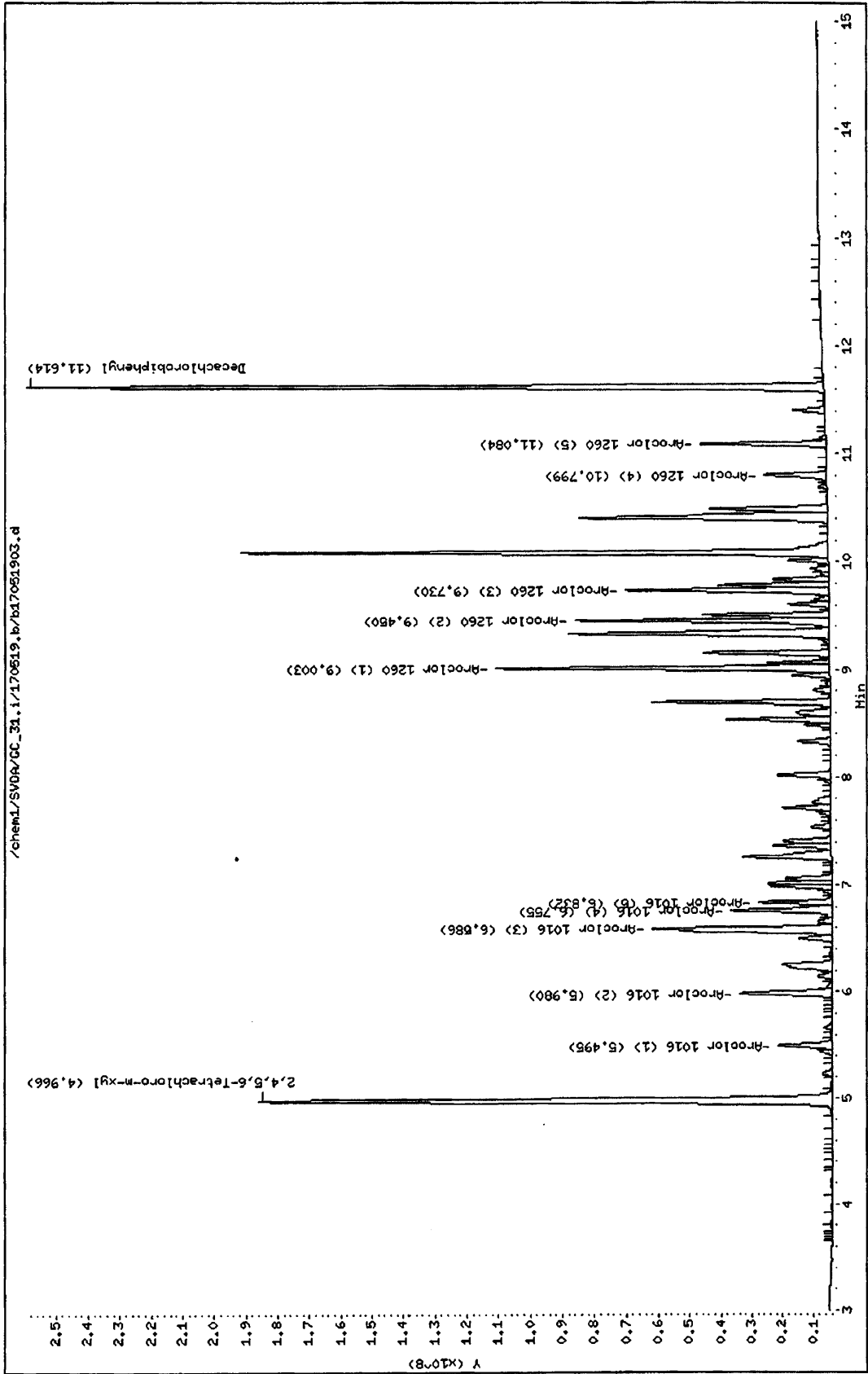
Sample Info: ICAL-3 P05A171D

Instrument: GC\_31.i

Operator: 944

Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_31.i/170519.b/b17051904.d  
 Report Date: 19-May-2017 16:10

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EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170519.b/b17051904.d  
 Lab Smp Id:  
 Inj Date : 19-MAY-2017 12:50  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : ICAL-4 P051717C  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Meth Date : 19-May-2017 16:10 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 12:50 Cal File: b17051904.d  
 Als bottle: 4 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

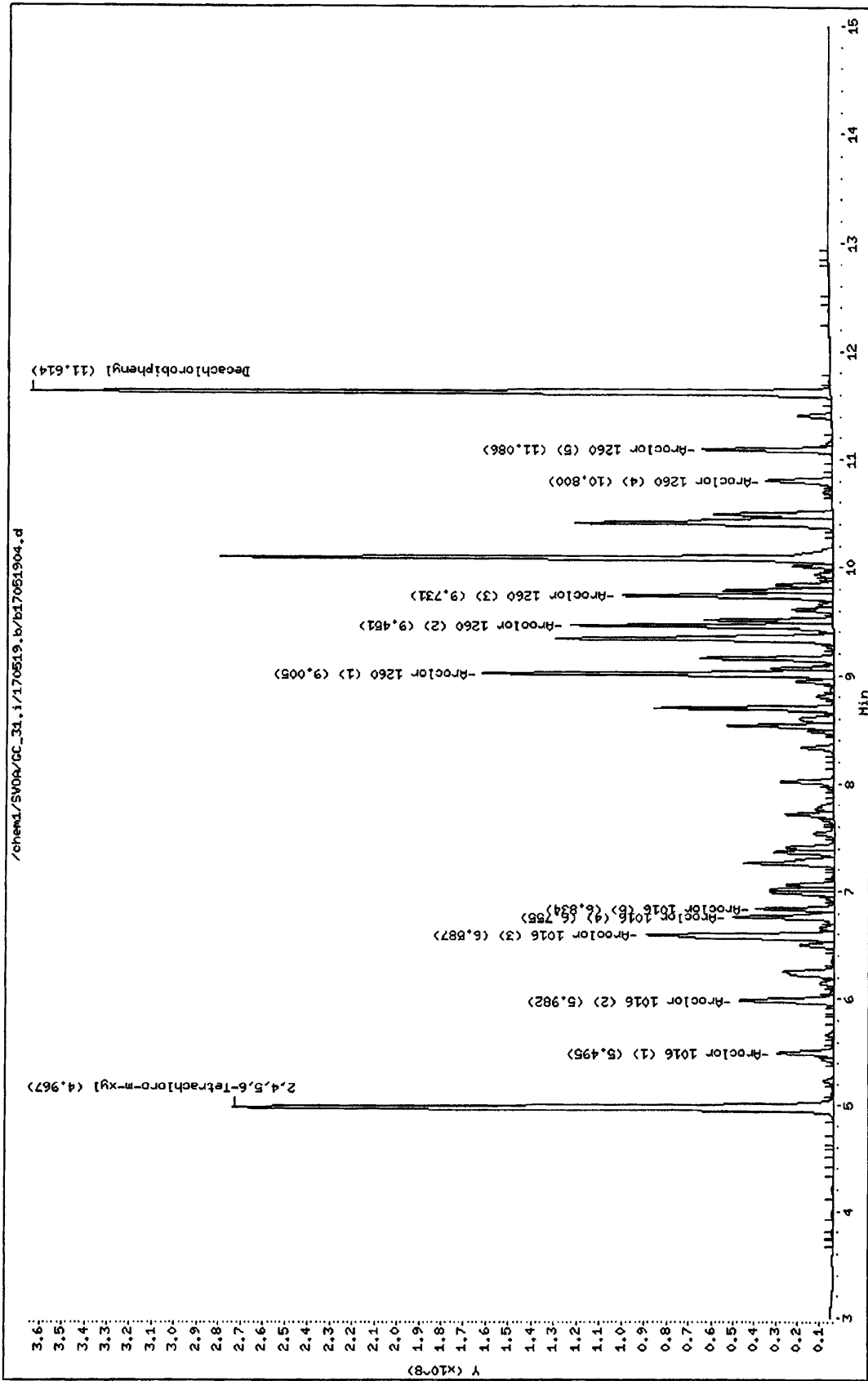
Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
\$ 1 2,4,5,6-Tetrachloro-m-xylene	4.967	4.967	0.000	15142569841	150.000	150
M 2 Aroclor-1016				12777636721	750.000	731
3 Aroclor 1016 (1)	5.495	5.495	0.000	1255941767	750.000	714
4 Aroclor 1016 (2)	5.982	5.982	0.000	2300644495	750.000	720
5 Aroclor 1016 (3)	6.587	6.587	0.000	5455411195	750.000	736
6 Aroclor 1016 (4)	6.755	6.755	0.000	2313507659	750.000	734
7 Aroclor 1016 (5)	6.834	6.834	0.000	1452131605	750.000	736
M 8 Aroclor-1260				19477310203	750.000	742
9 Aroclor 1260 (1)	9.005	9.005	0.000	6616614058	750.000	738
10 Aroclor 1260 (2)	9.451	9.451	0.000	4941488314	750.000	743
11 Aroclor 1260 (3)	9.731	9.731	0.000	4022712673	750.000	739
12 Aroclor 1260 (4)	10.800	10.800	0.000	1509451929	750.000	774
13 Aroclor 1260 (5)	11.086	11.086	0.000	2387043230	750.000	736
\$ 56 Decachlorobiphenyl	11.614	11.614	0.000	14979876698	150.000	147

Data File: /chem1/SV04/GC\_31.i/170519.b/b17051904.d  
Date : 19-MAY-2017 12:50  
Client ID:  
Sample Info: ICAL-4 P051717C

Instrument: GC\_31.i  
Operator: 944  
Column diameter: 2.00



Data File: /chem1/SVOA/GC\_31.i/170519.b/b17051905.d  
 Report Date: 19-May-2017 16:10

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EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170519.b/b17051905.d  
 Lab Smp Id:  
 Inj Date : 19-MAY-2017 13:09  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : ICAL-5 P051717B  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Meth Date : 19-May-2017 16:10 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 13:09 Cal File: b17051905.d  
 Als bottle: 5 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
\$ 1 2,4,5,6-Tetrachloro-m-xylene	4.968	4.968	0.000	40228662548	400.000	400
M 2 Aroclor-1016				32117181668	2000.00	1840
3 Aroclor 1016 (1)	5.495	5.495	0.000	3067573867	2000.00	1740
4 Aroclor 1016 (2)	5.981	5.981	0.000	5644653964	2000.00	1760
5 Aroclor 1016 (3)	6.587	6.587	0.000	13939375702	2000.00	1880
6 Aroclor 1016 (4)	6.755	6.755	0.000	5778425124	2000.00	1830
7 Aroclor 1016 (5)	6.834	6.834	0.000	3687153011	2000.00	1870
M 8 Aroclor-1260				52069197489	2000.00	1980
9 Aroclor 1260 (1)	9.006	9.006	0.000	17621023150	2000.00	1960
10 Aroclor 1260 (2)	9.451	9.451	0.000	13152588841	2000.00	1980
11 Aroclor 1260 (3)	9.731	9.731	0.000	10653617586	2000.00	1960
12 Aroclor 1260 (4)	10.799	10.799	0.000	4308527725	2000.00	2210(A)
13 Aroclor 1260 (5)	11.087	11.087	0.000	6333440186	2000.00	1950
\$ 56 Decachlorobiphenyl	11.615	11.615	0.000	40898161282	400.000	402(A)

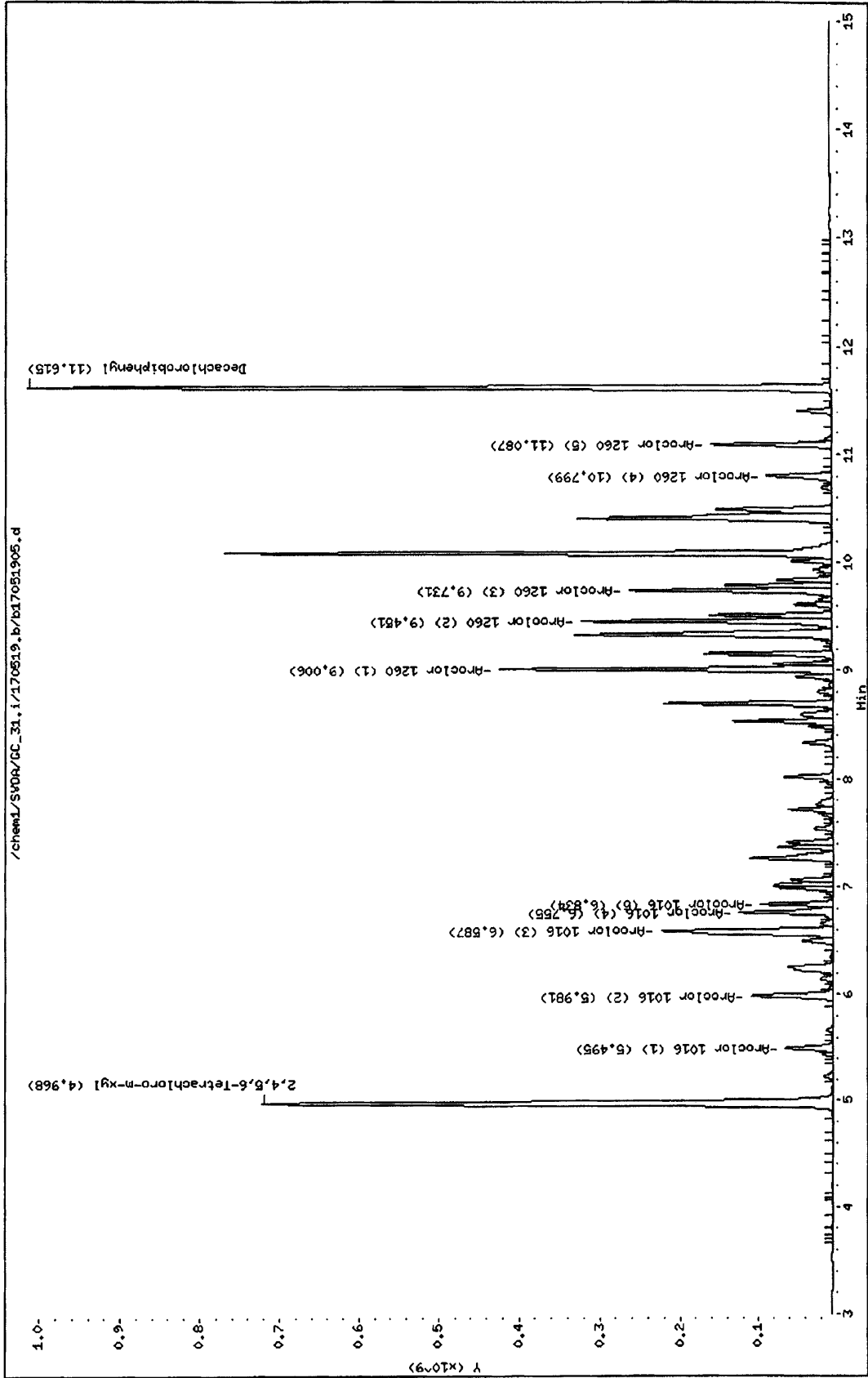
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem1/SV0A/GC\_31.i/170519.b/b17051905.d  
Date: 19-MAY-2017 13:09  
Client ID:  
Sample Info: ICAL-5 P051717B

Instrument: GC\_31.i  
Operator: 944  
Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_31.i/170519.b/b17051906.d  
 Report Date: 19-May-2017 16:10

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Eurofins Calscience

EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170519.b/b17051906.d  
 Lab Smp Id:  
 Inj Date : 19-MAY-2017 13:28  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : ICV P051717H  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Meth Date : 19-May-2017 16:10 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 13:09 Cal File: b17051905.d  
 Als bottle: 6 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

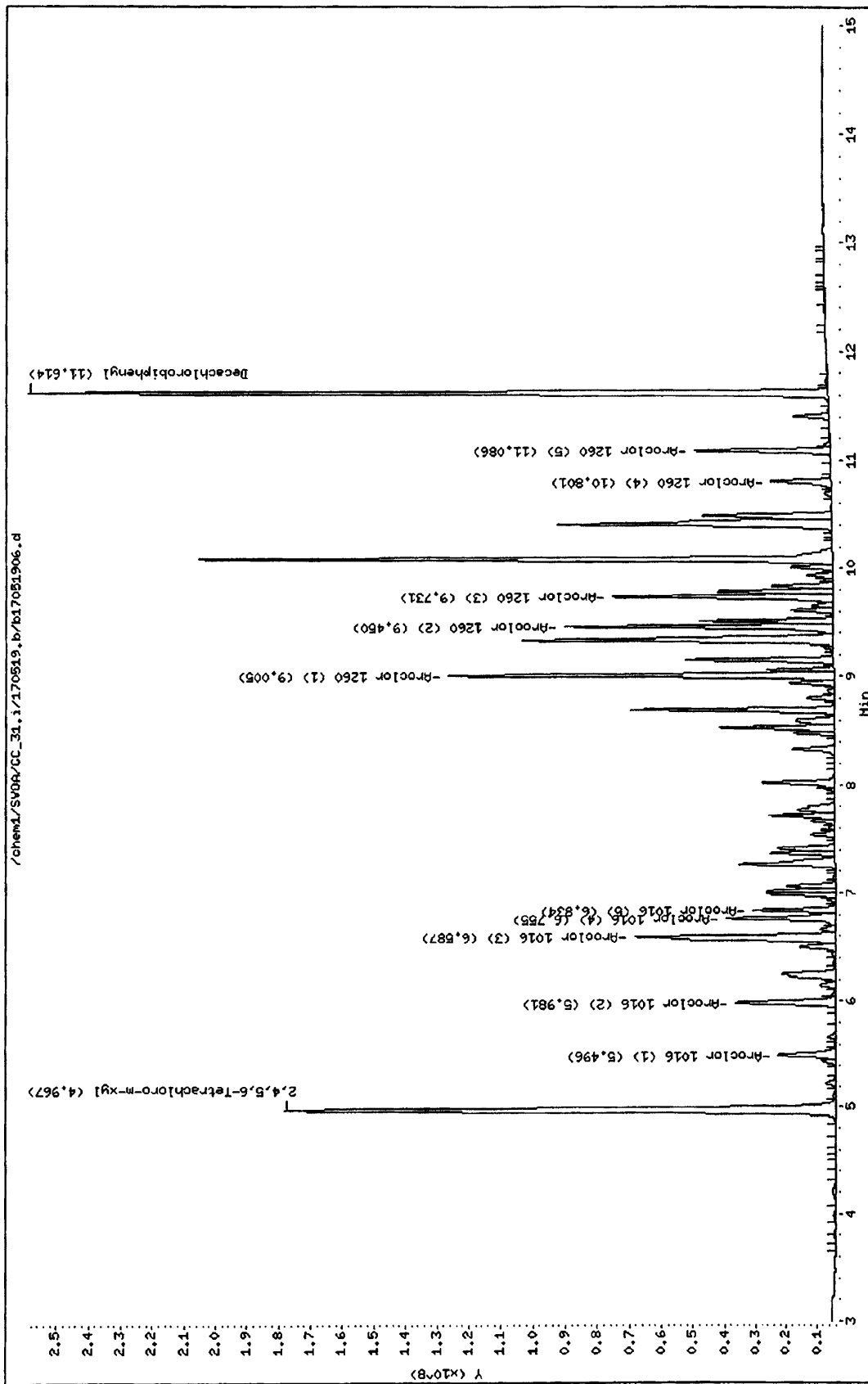
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
S 1 2,4,5,6-Tetrachloro-m-xylene	4.967	4.967	0.000	9995910807	100.000	99.3
M 2 Aroclor-1016				9609232262	500.000	550
3 Aroclor 1016 (1)	5.496	5.496	0.000	1013441455	500.000	576
4 Aroclor 1016 (2)	5.981	5.981	0.000	1719482292	500.000	538
5 Aroclor 1016 (3)	6.587	6.587	0.000	4057696613	500.000	548
6 Aroclor 1016 (4)	6.755	6.755	0.000	1731717714	500.000	550
7 Aroclor 1016 (5)	6.834	6.834	0.000	1086894188	500.000	551
M 8 Aroclor-1260				14558578155	500.000	555
9 Aroclor 1260 (1)	9.005	9.005	0.000	5242555096	500.000	585
10 Aroclor 1260 (2)	9.450	9.450	0.000	3607594237	500.000	542
11 Aroclor 1260 (3)	9.731	9.731	0.000	2958825392	500.000	544
12 Aroclor 1260 (4)	10.801	10.801	0.000	937608618	500.000	481
13 Aroclor 1260 (5)	11.086	11.086	0.000	1811994812	500.000	559
S 56 Decachlorobiphenyl	11.614	11.614	0.000	10511709945	100.000	103

Data File: /chem1/SV04/CC\_31.i/170519.b/b17051906.d  
Date : 19-MAY-2017 13:28  
Client ID:  
Sample Info: ICV P051717H

Instrument: GC\_31.i  
Operator: 944  
Column diameter: 2.00

Column phase:





Data File: /chem1/SVOA/GC\_31.i/170519.b/b17051907.d  
 Report Date: 19-May-2017 16:10

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Eurofins Calscience

EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170519.b/b17051907.d  
 Lab Smp Id:  
 Inj Date : 19-MAY-2017 13:47  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : 1221/54 P051717J  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Meth Date : 19-May-2017 16:10 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 7 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1221\_1254.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

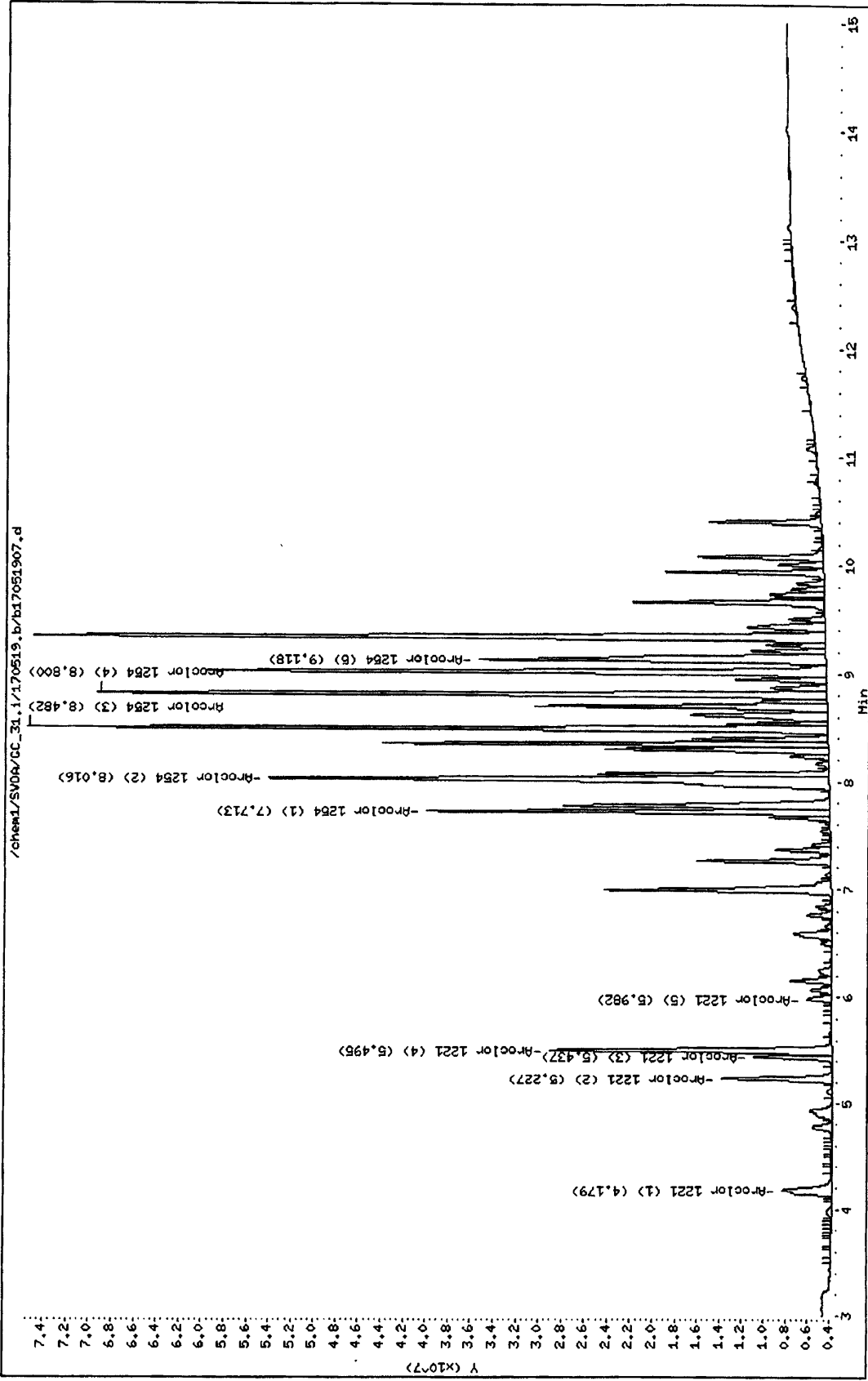
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
M 14 Aroclor-1221				2571079769	500.000	500
15 Aroclor 1221 (1)	4.179	4.179	0.000	384414848	500.000	500
16 Aroclor 1221 (2)	5.227	5.227	0.000	515896311	500.000	500
17 Aroclor 1221 (3)	5.437	5.437	0.000	312996802	500.000	500
18 Aroclor 1221 (4)	5.495	5.495	0.000	1235284501	500.000	500
19 Aroclor 1221 (5)	5.982	5.982	0.000	122487307	500.000	500
M 38 Aroclor-1254				11855027310	500.000	500
39 Aroclor 1254 (1)	7.713	7.713	0.000	1464427190	500.000	500
40 Aroclor 1254 (2)	8.016	8.016	0.000	3021182046	500.000	500
41 Aroclor 1254 (3)	8.482	8.482	0.000	2835539519	500.000	500
42 Aroclor 1254 (4)	8.800	8.800	0.000	2682999776	500.000	500
43 Aroclor 1254 (5)	9.118	9.118	0.000	1850878779	500.000	500



Data File: /chem1/SV04/GC\_31.i/170519.b/bi7051907.d  
Date : 19-MAY-2017 13:47  
Client ID:  
Sample Info: 1221/54 P0517173

Instrument: GC\_31.i  
Operator: 944  
Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_31.i/170519.b/b17051908.d  
 Report Date: 19-May-2017 16:10

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EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170519.b/b17051908.d  
 Lab Smp Id:  
 Inj Date : 19-MAY-2017 14:06  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : 1232/62 P051717K  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Meth Date : 19-May-2017 16:10 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 8 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1232\_1262.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

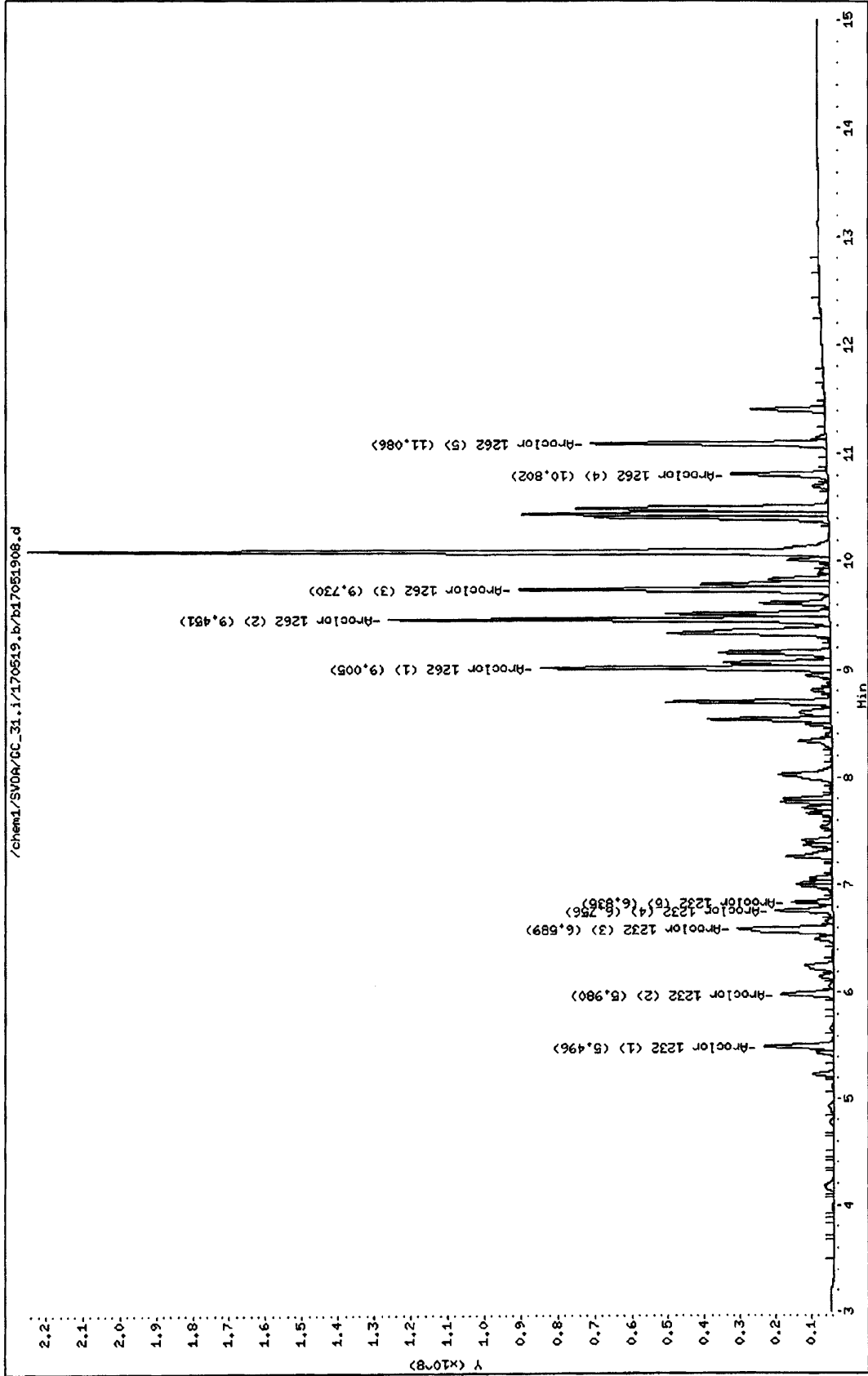
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
M 20 Aroclor-1232				4769956288	500.000	500
21 Aroclor 1232 (1)	5.496	5.496	0.000	956724222	500.000	500
22 Aroclor 1232 (2)	5.980	5.980	0.000	784483600	500.000	500
23 Aroclor 1232 (3)	6.589	6.589	0.000	1780325620	500.000	500
24 Aroclor 1232 (4)	6.756	6.756	0.000	762214011	500.000	500
25 Aroclor 1232 (5)	6.835	6.835	0.000	486208835	500.000	500
M 44 Aroclor-1262				15625344986	500.000	500
45 Aroclor 1262 (1)	9.005	9.005	0.000	3313451370	500.000	500
46 Aroclor 1262 (2)	9.451	9.451	0.000	4945548218	500.000	500
47 Aroclor 1262 (3)	9.730	9.730	0.000	3529461307	500.000	500
48 Aroclor 1262 (4)	10.802	10.802	0.000	1187532781	500.000	500
49 Aroclor 1262 (5)	11.086	11.086	0.000	2649351309	500.000	500



Data File: /chem1/SV04/CC\_31.i/170519.b/b17051908.d  
Date : 19-HWY-2017 14:06  
Client ID:  
Sample Info: 1232/62 P051717K

Instrument: GC\_31.i  
Operator: 944  
Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_31.i/170519.b/b17051909.d  
 Report Date: 19-May-2017 16:10

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Eurofins Calscience

EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170519.b/b17051909.d  
 Lab Smp Id:  
 Inj Date : 19-MAY-2017 14:25  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : 1248/68 P051717L  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Meth Date : 19-May-2017 16:10 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 9 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1248\_1268.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
M 32 Aroclor-1248				5947672523	500.000	500
33 Aroclor 1248 (1)	6.587	6.587	0.000	1885494046	500.000	500
34 Arcolor 1248 (2)	6.757	6.757	0.000	739506619	500.000	500
35 Aroclor 1248 (3)	6.836	6.836	0.000	420644471	500.000	500
36 Aroclor 1248 (4)	7.259	7.259	0.000	1873190797	500.000	500
37 Aroclor 1248 (5)	7.363	7.363	0.000	1028836590	500.000	500
M 50 Aroclor-1268				47563642369	500.000	500
51 Aroclor 1268 (1)	10.433	10.433	0.000	10221046126	500.000	500
52 Aroclor 1268 (2)	10.478	10.478	0.000	9481546395	500.000	500
53 Aroclor 1268 (3)	10.694	10.694	0.000	6490720964	500.000	500
54 Aroclor 1268 (4)	11.088	11.088	0.000	2946812800	500.000	500
55 Aroclor 1268 (5)	11.404	11.404	0.000	18423516083	500.000	500



Data File: /chem1/SVDA/GC\_31.i/170519.b/b17051909.d

Date : 19-MAY-2017 14:25

Client ID:

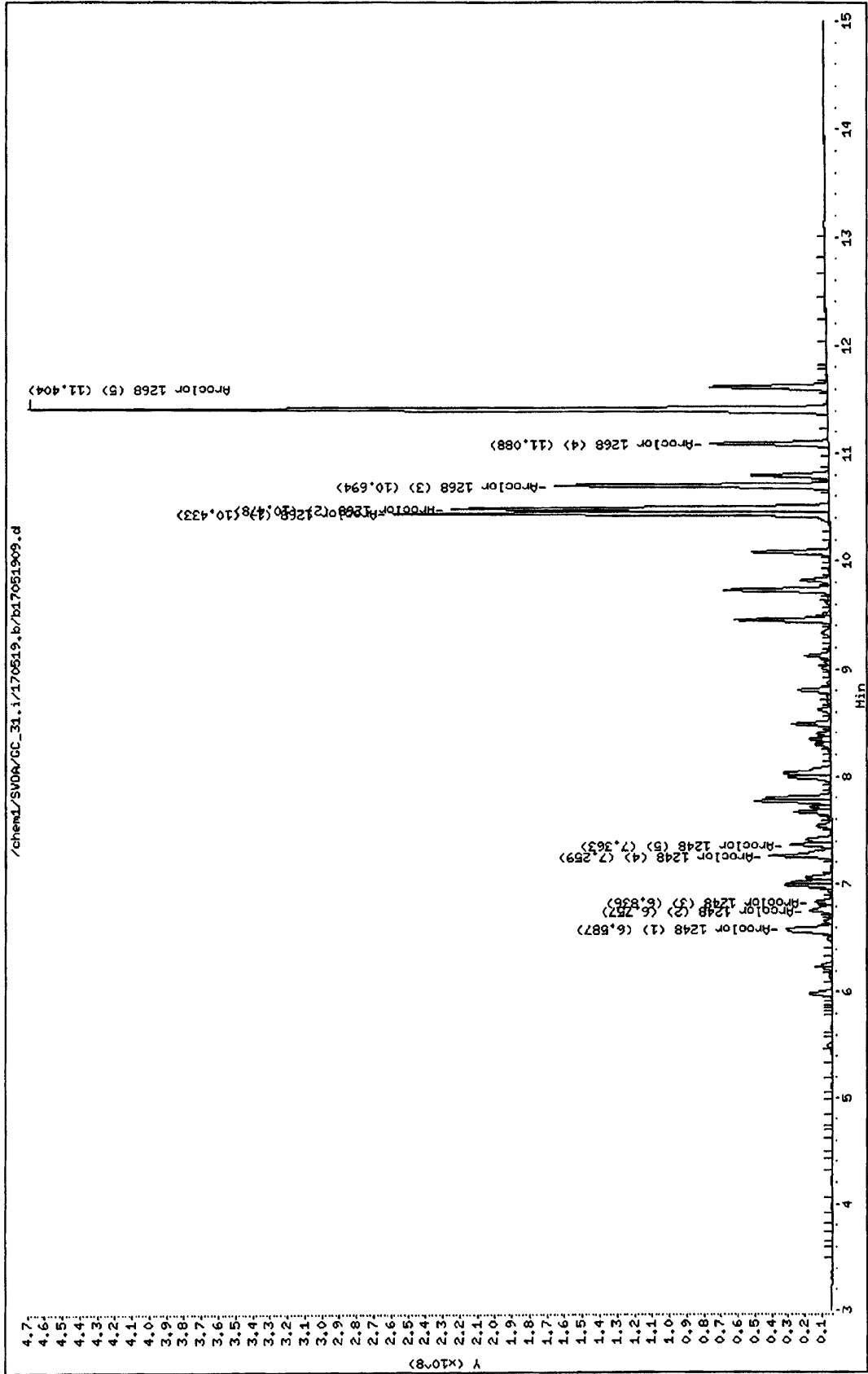
Sample Info: 1248/68 P051717L

Instrument: GC\_31.i

Operator: 944

Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_31.i/170519.b/b17051910.d  
 Report Date: 19-May-2017 16:10

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EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170519.b/b17051910.d  
 Lab Smp Id:  
 Inj Date : 19-MAY-2017 14:44  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : 1242 P051717M  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Meth Date : 19-May-2017 16:10 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 10 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1242.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

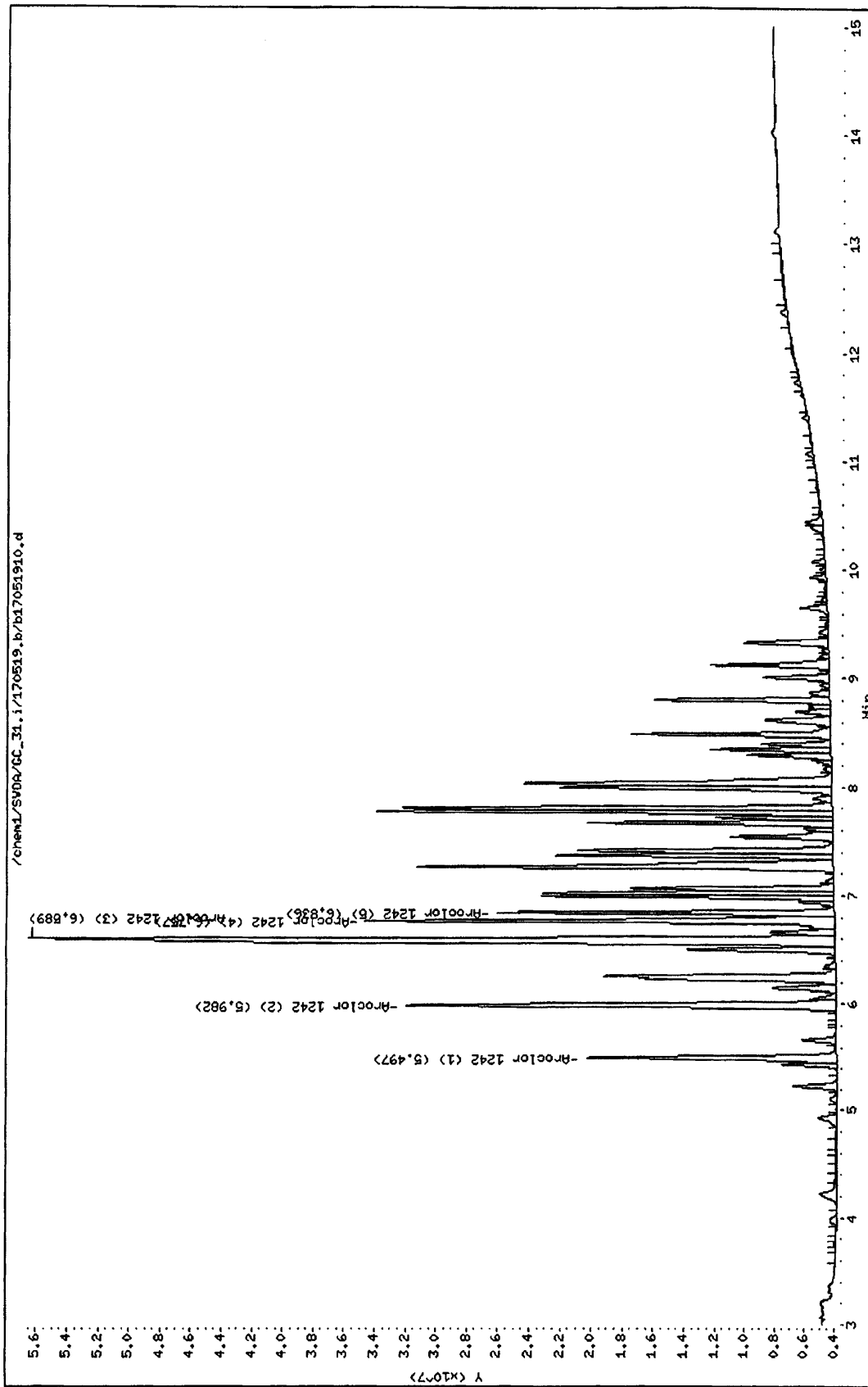
Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
M 26 Aroclor-1242				8005689190	500.000	500
27 Aroclor 1242 (1)	5.497	5.497	0.000	789658565	500.000	500
28 Aroclor 1242 (2)	5.982	5.982	0.000	1464748640	500.000	500
29 Aroclor 1242 (3)	6.589	6.589	0.000	3389537761	500.000	500
30 Aroclor 1242 (4)	6.757	6.757	0.000	1456721500	500.000	500
31 Aroclor 1242 (5)	6.836	6.836	0.000	905022724	500.000	500

Data File: /chem1/SVDA/GC\_31.i/170519.b/b17051910.d  
Date : 19-MAY-2017 14:44  
Client ID:  
Sample Info: 1242 P051717H

Instrument: GC\_31.i  
Operator: 944  
Column diameter: 2.00

Column phase:





# INITIAL CALIBRATION QUALITY CONTROL SUMMARY FOR METHOD: EPA 8082

ICAL WORK ORDER: 099-15-958-427-6572  
ICAL BATCH ID: 1705231001  
INSTRUMENT: GC 58

ANALYZED BY: 944  
ICAL D/T ANALYZED: 2017-05-23 16:52  
REVIEWED BY: 27  
D/T REVIEWED: 2017-05-26 13:15

COMPOUND	COMP. TYPE	CALIB. MODEL	1	2	3	4	5	6	7	8	9	Avg. RF	Min. RF	%RSD CL	R or R <sup>2</sup> CL	R or R <sup>2</sup> CL	STATUS
Atroclor-1016	C	Avg RF	12,629,020	11,845,920	11,407,396	11,131,629	10,519,185					11,506,630	0.00	7	0-20		PASS
Atroclor-1260	C	Avg RF	12,025,801	11,613,887	11,485,667	11,435,616	11,124,282					11,537,050	0.00	3	0-20		PASS

**Data Files:**

Level #	D/T Analyzed	Data File
1	2017-05-23 16:52	/chem1/SVOA/GC_58/170523/b/1705232117052321
2	2017-05-23 17:09	/chem1/SVOA/GC_58/170523/b/1705232217052322
3	2017-05-23 17:27	/chem1/SVOA/GC_58/170523/b/1705232317052323
4	2017-05-23 17:45	/chem1/SVOA/GC_58/170523/b/1705232417052324
5	2017-05-23 18:03	/chem1/SVOA/GC_58/170523/b/1705232517052325

LR - E: Linear Regression (Equal Weight)  
Avg RF: Average Response Factor

LR - IC: Linear Regression (Inverse Concentration Weight)  
QR - E: Quadratic Regression (Equal Weight)

LR - ISC: Linear Regression (Inverse Square Concentration Weight)



# INITIAL CALIBRATION VERIFICATION QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**ICV WORK ORDER:** 099-15-958-427-6572

**INITIAL BATCH:** 1705231001

**INSTRUMENT:** GC 58

**ANALYZED BY:** 944

**D/T ANALYZED:**

**INITIAL:** 2017-05-23 16:52

**ICV:** 2017-05-23 18:21

**REVIEWED BY:** 27

**D/T REVIEWED:** 2017-05-26 13:15

**DATA FILE:** /chem1/SVOA/GC\_58/170523/b1705232617052326

<u>COMPOUND NAME</u>	<u>COMP TYPE</u>	<u>CALIB MODEL</u>	<u>MIN RF</u>	<u>AVG RF</u>	<u>ICV RF</u>	<u>AMOUNT</u>	<u>ICV CONC</u>	<u>ICV %D</u>	<u>ICV %D CL</u>	<u>STATUS</u>
Aroclor-1016	C	Avg Resp	0.00	11506630.029	10890471.982			5	0-15	PASS
Aroclor-1260	C	Avg Resp	0.00	11537050.448	11170168.146			3	0-15	PASS

MIN RF: Method Specified Minimum Response Factor

Report Date : 24-May-2017 09:27

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## Eurofins Calscience

## INITIAL CALIBRATION DATA

Start Cal Date : 04-OCT-2016 21:49  
 End Cal Date : 23-MAY-2017 19:33  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP Genie  
 Method file : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Cal Date : 24-May-2017 09:23 src3  
 Curve Type : Average

## Calibration File Names:

Level 1: /chem1/SVOA/GC\_58.i/170523.b/b17052321.d  
 Level 2: /chem1/SVOA/GC\_58.i/170523.b/b17052322.d  
 Level 3: /chem1/SVOA/GC\_58.i/170523.b/b17052330.d  
 Level 4: /chem1/SVOA/GC\_58.i/170523.b/b17052324.d  
 Level 5: /chem1/SVOA/GC\_58.i/170523.b/b17052325.d

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	750.000 Level 4	2000.000 Level 5	RRF	% RSD
M 2 Aroclor-1016	12629020	11845920	11407396	11131629	10519185	11506630	7
3 Aroclor 1016 (1)	1275851	1161391	1113125	1071210	992956	1122907	9
4 Aroclor 1016 (2)	2377611	2184364	2068157	2011631	1881082	2104569	9
5 Aroclor 1016 (3)	5059544	4830067	4700531	4612008	4400578	4720545	5
6 Aroclor 1016 (4)	2197630	2055262	1969215	1911632	1795295	1985807	8
7 Aroclor 1016 (5)	1718384	1614836	1556368	1525148	1449274	1572802	6
M 8 Aroclor-1260	12025801	11613887	11485667	11435616	11124282	11537050	3
9 Aroclor 1260 (1)	3691129	3515766	3438557	3387146	3217391	3449998	5
10 Aroclor 1260 (2)	2659167	2573955	2550872	2540602	2476520	2560223	3
11 Aroclor 1260 (3)	2908393	2863443	2866327	2871017	2822302	2866296	1
12 Aroclor 1260 (4)	833938	805816	804541	807016	800493	810361	2
13 Aroclor 1260 (5)	1933175	1854906	1825369	1829835	1807576	1850172	3
M 14 Aroclor-1221	++++	++++	3462658	++++	++++	3462658	0
15 Aroclor 1221 (1)	++++	++++	518215	++++	++++	518215	0
16 Aroclor 1221 (2)	++++	++++	663496	++++	++++	663496	0
17 Aroclor 1221 (3)	++++	++++	434398	++++	++++	434398	0
18 Aroclor 1221 (4)	++++	++++	1576396	++++	++++	1576396	0
19 Aroclor 1221 (5)	++++	++++	270153	++++	++++	270153	0
M 20 Aroclor-1232	++++	++++	6456218	++++	++++	6456218	0
21 Aroclor 1232 (1)	++++	++++	1260285	++++	++++	1260285	0
22 Aroclor 1232 (2)	++++	++++	1099941	++++	++++	1099941	0
23 Aroclor 1232 (3)	++++	++++	2339921	++++	++++	2339921	0

Report Date : 24-May-2017 09:27

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## Eurofins Calscience

## INITIAL CALIBRATION DATA

Start Cal Date : 04-OCT-2016 21:49  
 End Cal Date : 23-MAY-2017 19:33  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP Genie  
 Method file : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Cal Date : 24-May-2017 09:23 src3  
 Curve Type : Average

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	750.000 Level 4	2000.000 Level 5	RRF	% RSD
24 Aroclor 1232 (4)	++++	++++	985728	++++	++++	985728	0
25 Aroclor 1232 (5)	++++	++++	770342	++++	++++	770342	0
M 26 Aroclor-1242	++++	++++	10779025	++++	++++	10779025	0
27 Aroclor 1242 (1)	++++	++++	1016454	++++	++++	1016454	0
28 Aroclor 1242 (2)	++++	++++	1974329	++++	++++	1974329	0
29 Aroclor 1242 (3)	++++	++++	4443459	++++	++++	4443459	0
30 Aroclor 1242 (4)	++++	++++	1865322	++++	++++	1865322	0
31 Aroclor 1242 (5)	++++	++++	1479460	++++	++++	1479460	0
M 32 Aroclor-1248	++++	++++	8585613	++++	++++	8585613	0
33 Aroclor 1248 (1)	++++	++++	2474351	++++	++++	2474351	0
34 Aroclor 1248 (2)	++++	++++	1190568	++++	++++	1190568	0
35 Aroclor 1248 (3)	++++	++++	930097	++++	++++	930097	0
36 Aroclor 1248 (4)	++++	++++	1855416	++++	++++	1855416	0
37 Aroclor 1248 (5)	++++	++++	2135181	++++	++++	2135181	0
M 38 Aroclor-1254	++++	++++	13026379	++++	++++	13026379	0
39 Aroclor 1254 (1)	++++	++++	2214930	++++	++++	2214930	0
40 Aroclor 1254 (2)	++++	++++	1158657	++++	++++	1158657	0
41 Aroclor 1254 (3)	++++	++++	3844996	++++	++++	3844996	0
42 Aroclor 1254 (4)	++++	++++	2737908	++++	++++	2737908	0
43 Aroclor 1254 (5)	++++	++++	3069887	++++	++++	3069887	0
M 44 Aroclor-1262	++++	++++	15048272	++++	++++	15048272	0
45 Aroclor 1262 (1)	++++	++++	2890494	++++	++++	2890494	0
46 Aroclor 1262 (2)	++++	++++	3951702	++++	++++	3951702	0
47 Aroclor 1262 (3)	++++	++++	3759808	++++	++++	3759808	0
48 Aroclor 1262 (4)	++++	++++	1278171	++++	++++	1278171	0
49 Aroclor 1262 (5)	++++	++++	3168097	++++	++++	3168097	0
M 50 Aroclor-1268	++++	++++	53468144	++++	++++	53468144	0
51 Aroclor 1268 (1)	++++	++++	8674570	++++	++++	8674570	0
52 Aroclor 1268 (2)	++++	++++	11177203	++++	++++	11177203	0

Report Date : 24-May-2017 09:27

Page 3

## Eurofins Calscience

## INITIAL CALIBRATION DATA

Start Cal Date : 04-OCT-2016 21:49  
 End Cal Date : 23-MAY-2017 19:33  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP Genie  
 Method file : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Cal Date : 24-May-2017 09:23 src3  
 Curve Type : Average

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	750.000 Level 4	2000.000 Level 5	RRF	% RSD
53 Aroclor 1268 (3)	+++++	+++++	7082776	+++++	+++++	7082776	0
54 Aroclor 1268 (4)	+++++	+++++	3296595	+++++	+++++	3296595	0
55 Aroclor 1268 (5)	+++++	+++++	23237000	+++++	+++++	23237000	0
T 1 2,4,5,6-Tetrachloro-m-xylene	63321784	63478698	63826321	63339394	62957426	63384725	0
T 56 Decachlorobiphenyl	61719589	61974262	62633351	62943146	62919173	62437904	1

Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052326.d  
 Report Date: 05/24/2017 09:23

Eurofins CalScience  
 Calibration Verification Report

Instrument ID: GC\_58.i Injection Date and Time: 23-MAY-2017 18:21  
 Sample Name: PCB ICV 500 PPB P051717H Initial Calibration Date(s): 04-OCT-2016 23-MAY-2017  
 Sublist used: p1016\_1260.sub Initial Calibration Time(s): 21:49 19:33  
 Method used: /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D  Drift	Curve Type
Aroclor-1016	11506630.029	10890471.982	0.01	5	15	Averaged
Aroclor 1016 (1)	1122906.647	1035817.970	0.01	8	15	Averaged
Aroclor 1016 (2)	2104568.955	1977536.926	0.01	6	15	Averaged
Aroclor 1016 (3)	4720545.338	4517671.304	0.01	4	15	Averaged
Aroclor 1016 (4)	1985806.908	1875226.762	0.01	6	15	Averaged
Aroclor 1016 (5)	1572802.181	1484219.020	0.01	6	15	Averaged
Aroclor 1260 (4)	810360.902	741063.920	0.01	9	15	Averaged
Aroclor-1260	11537050.448	11170168.146	0.01	3	15	Averaged
Aroclor 1260 (5)	1850172.206	1784845.724	0.01	4	15	Averaged
Aroclor 1260 (1)	3449997.793	3437974.978	0.01	0	15	Averaged
Aroclor 1260 (2)	2560223.179	2427602.878	0.01	5	15	Averaged
Aroclor 1260 (3)	2866296.368	2778680.646	0.01	3	15	Averaged
Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D  Drift	Curve Type
2,4,5,6-Tetrachloro-m-xylene	63384724.531	63028884.615	0.01	1	15	Averaged
Decachlorobiphenyl	62437904.265	63909836.622	0.01	-2	15	Averaged

Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052321.d  
 Report Date: 24-May-2017 09:21

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052321.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 16:52  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB ICAL-1 100 PPB P051717F  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 16:52 Cal File: b17052321.d  
 Als bottle: 21 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.742	4.738	0.004	1266435675	20.0000	20.0
M 2 Aroclor-1016				1262902010	100.000	110
3 Aroclor 1016 (1)	5.453	5.450	0.003	127585119	100.000	114
4 Aroclor 1016 (2)	5.999	5.995	0.004	237761116	100.000	113
5 Aroclor 1016 (3)	6.582	6.579	0.003	505954363	100.000	107
6 Aroclor 1016 (4)	6.753	6.749	0.004	219763021	100.000	111
7 Aroclor 1016 (5)	6.879	6.876	0.003	171838391	100.000	109
M 8 Aroclor-1260				1202580069	100.000	104
9 Aroclor 1260 (1)	9.063	9.056	0.007	369112907	100.000	107
10 Aroclor 1260 (2)	9.575	9.569	0.006	265916660	100.000	104
11 Aroclor 1260 (3)	9.915	9.908	0.007	290839258	100.000	101
12 Aroclor 1260 (4)	11.089	11.081	0.008	83393780	100.000	103
13 Aroclor 1260 (5)	11.271	11.264	0.007	193317464	100.000	104
T 56 Decachlorobiphenyl	11.925	11.920	0.005	1234391790	20.0000	19.8

Data File: /chem1/SVDA/CC\_58.i/170523.b/b17052321.d

Date : 23-MAY-2017 16:52

Client ID:

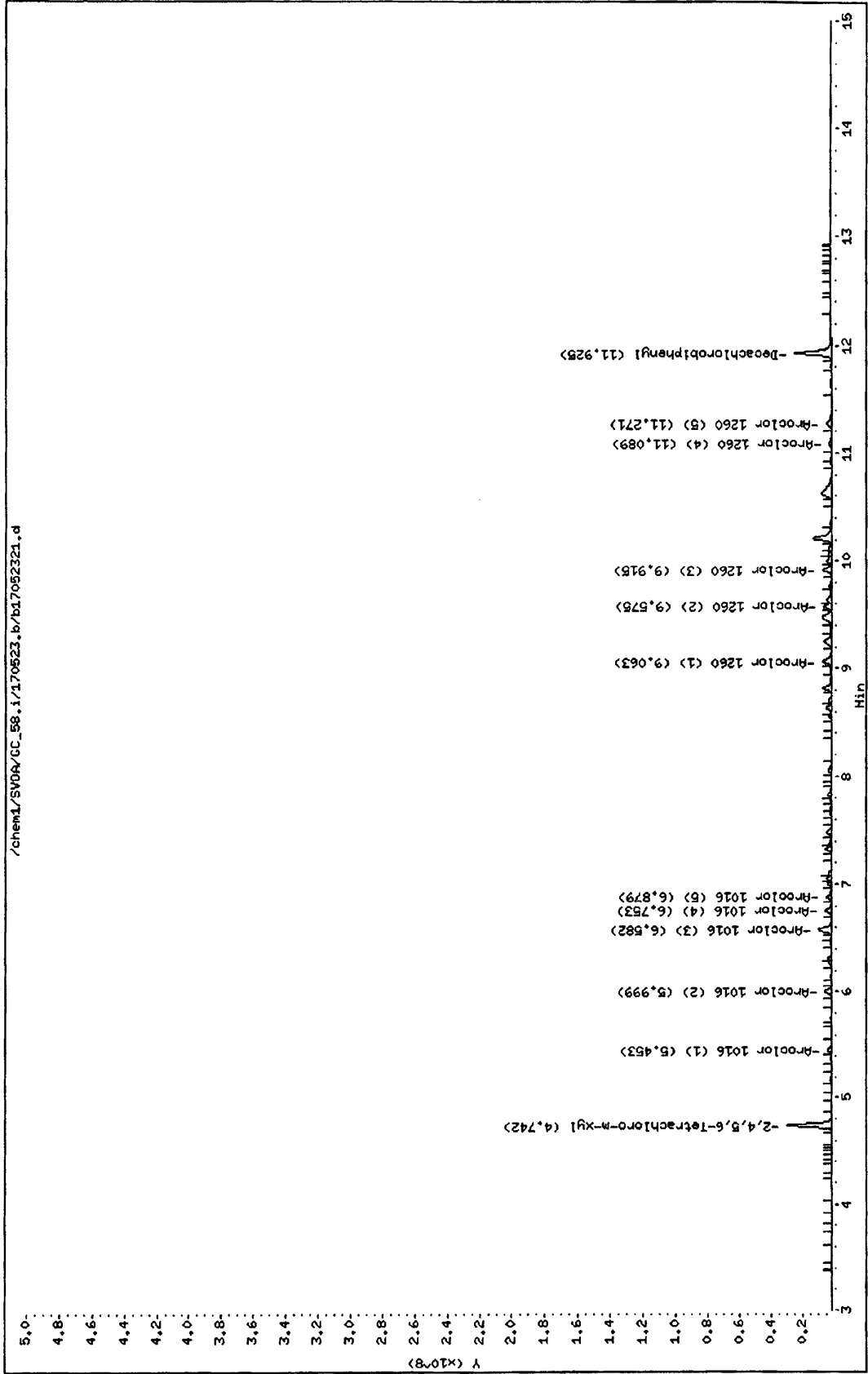
Sample Info: PCB 1CAL-1 100 PPB Po51717F

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:





Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052322.d  
 Report Date: 24-May-2017 09:21

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052322.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 17:09  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB ICAL-2 250 PPB P051717E  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 17:09 Cal File: b17052322.d  
 Als bottle: 22 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.739	4.738	0.001	3173934907	50.0000	50.1
M 2 Aroclor-1016				2961479920	250.000	257
3 Aroclor 1016 (1)	5.450	5.450	0.000	290347764	250.000	258
4 Aroclor 1016 (2)	5.996	5.995	0.001	546090953	250.000	259
5 Aroclor 1016 (3)	6.579	6.579	0.000	1207516690	250.000	256
6 Aroclor 1016 (4)	6.749	6.749	0.000	513815568	250.000	259
7 Aroclor 1016 (5)	6.876	6.876	0.000	403708945	250.000	257
M 8 Aroclor-1260				2903471671	250.000	252
9 Aroclor 1260 (1)	9.058	9.056	0.002	878941559	250.000	255
10 Aroclor 1260 (2)	9.571	9.569	0.002	643488861	250.000	251
11 Aroclor 1260 (3)	9.910	9.908	0.002	715860856	250.000	250
12 Aroclor 1260 (4)	11.084	11.081	0.003	201454010	250.000	248
13 Aroclor 1260 (5)	11.267	11.264	0.003	463726385	250.000	251
T 56 Decachlorobiphenyl	11.922	11.920	0.002	3098713090	50.0000	49.6

Data File: /chem1/SV0A/GC\_58.i/170523.b/b17052322.d

Date : 23-MAY-2017 17:09

Client ID:

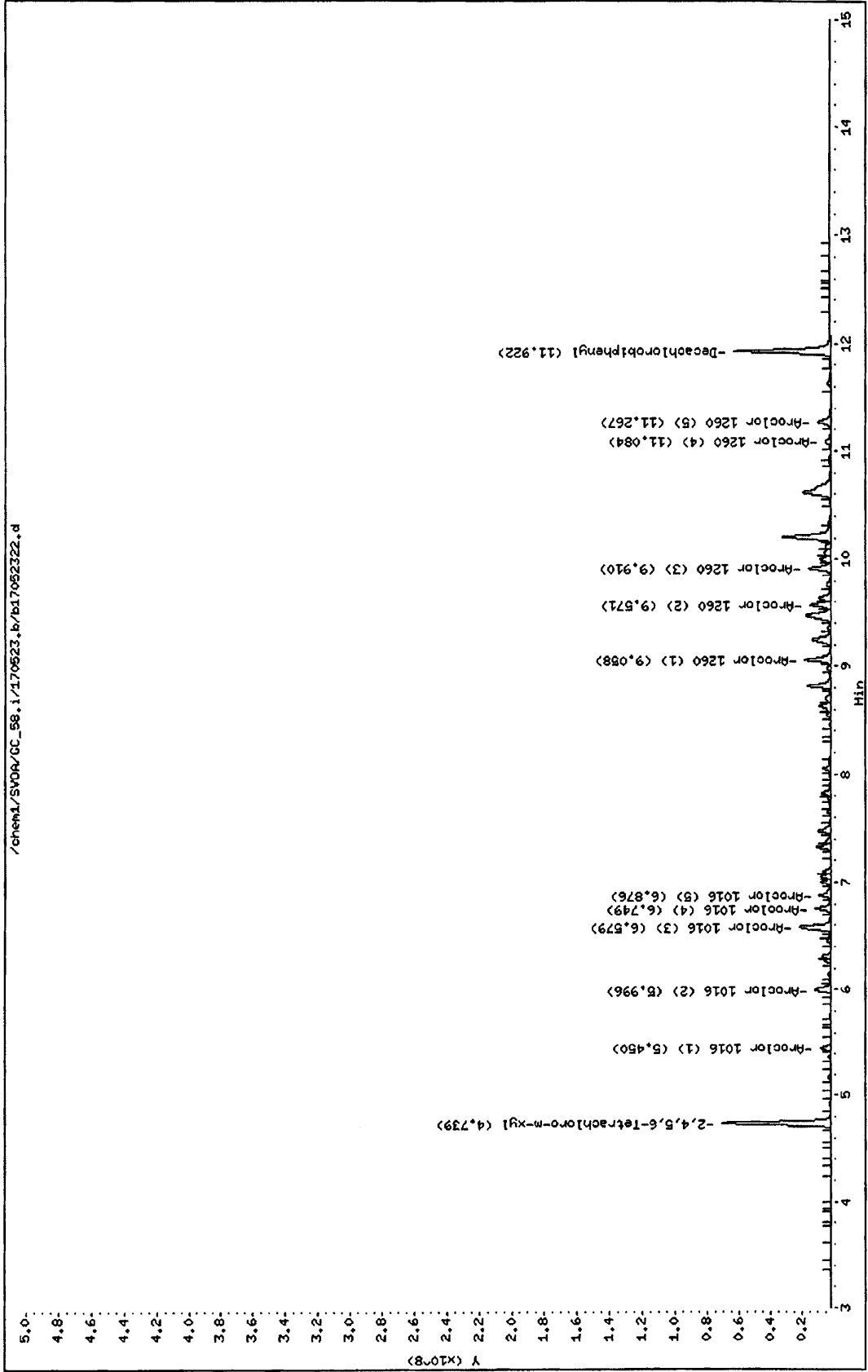
Sample Info: PCB ICAL-2 250 PPS P051717E

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052323.d  
 Report Date: 24-May-2017 09:21

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052323.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 17:27  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB ICAL-3 500 PPB P051717D  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 23 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.738	4.738	0.000	6382632089	100.000	101
M 2 Aroclor-1016				5703698032	500.000	496
3 Aroclor 1016 (1)	5.450	5.450	0.000	556562512	500.000	496
4 Aroclor 1016 (2)	5.995	5.995	0.000	1034078575	500.000	491
5 Aroclor 1016 (3)	6.579	6.579	0.000	2350265312	500.000	498
6 Aroclor 1016 (4)	6.749	6.749	0.000	984607395	500.000	496
7 Aroclor 1016 (5)	6.875	6.876	-0.001	778184238	500.000	495
M 8 Aroclor-1260				5742833471	500.000	498
9 Aroclor 1260 (1)	9.056	9.057	-0.001	1719278633	500.000	498
10 Aroclor 1260 (2)	9.569	9.570	-0.001	1275435860	500.000	498
11 Aroclor 1260 (3)	9.907	9.908	-0.001	1433163526	500.000	500
12 Aroclor 1260 (4)	11.081	11.082	-0.001	402270729	500.000	496
13 Aroclor 1260 (5)	11.264	11.265	-0.001	912684723	500.000	493
T 56 Decachlorobiphenyl	11.919	11.920	-0.001	6263335120	100.000	100

Data File: /chem1/SVDA/GC\_58.i/170523.b/b17052323.d

Date : 23-MAY-2017 17:27

Client ID:

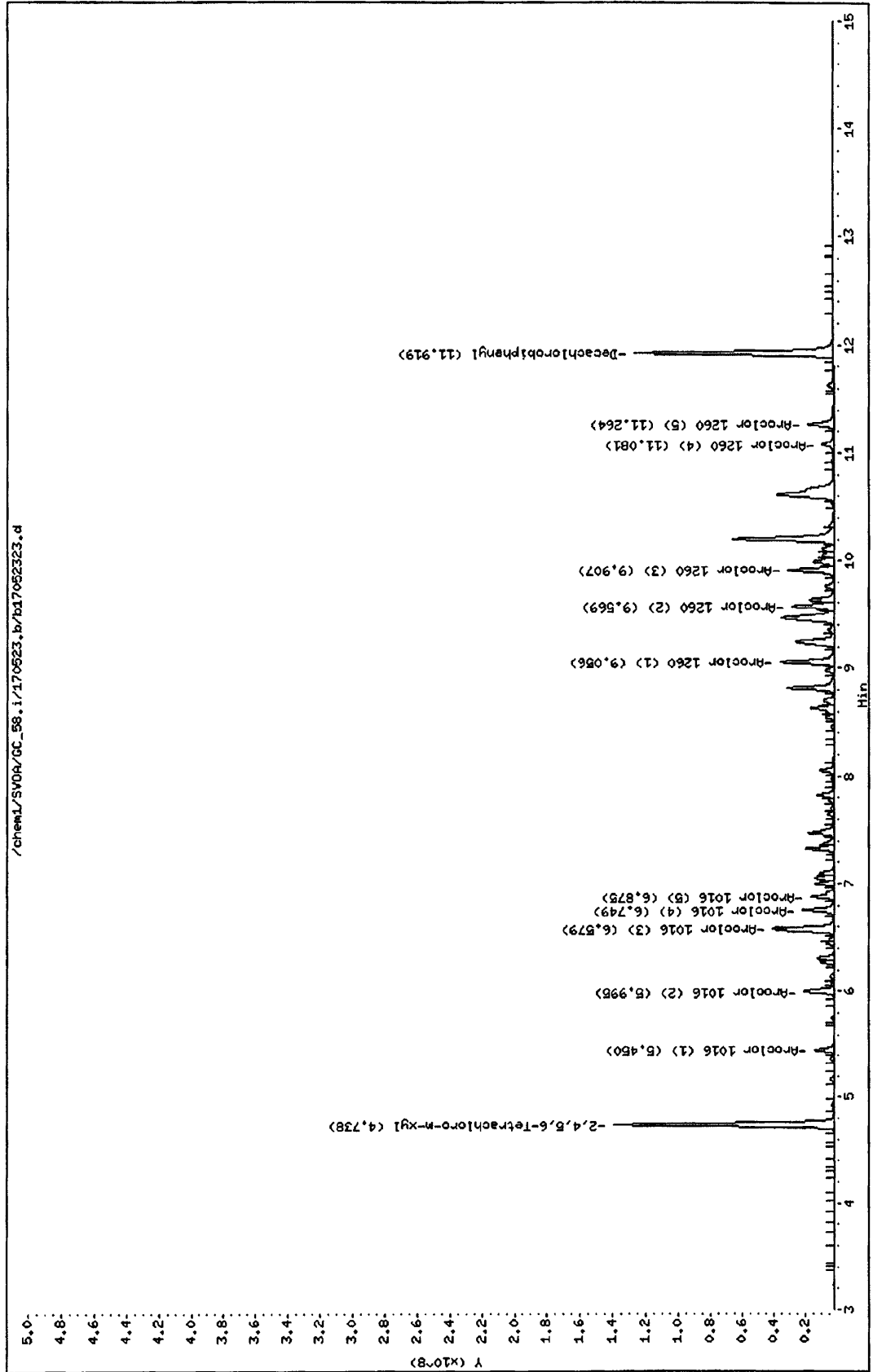
Sample Info: PCB ICAL-3 500 PPB P051717D

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052324.d  
 Report Date: 24-May-2017 09:21

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052324.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 17:45  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB ICAL-4 750 PPB P051717C  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 17:45 Cal File: b17052324.d  
 Als bottle: 24 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.738	4.738	0.000	9500909148	150.000	150
M 2 Aroclor-1016				8348721824	750.000	726
3 Aroclor 1016 (1)	5.449	5.450	-0.001	803407281	750.000	715
4 Aroclor 1016 (2)	5.994	5.995	-0.001	1508723220	750.000	717
5 Aroclor 1016 (3)	6.578	6.579	-0.001	3459005906	750.000	733
6 Aroclor 1016 (4)	6.748	6.749	-0.001	1433724096	750.000	722
7 Aroclor 1016 (5)	6.875	6.876	-0.001	1143861321	750.000	727
M 8 Aroclor-1260				8576711934	750.000	743
9 Aroclor 1260 (1)	9.054	9.057	-0.003	2540359265	750.000	736
10 Aroclor 1260 (2)	9.568	9.570	-0.002	1905451840	750.000	744
11 Aroclor 1260 (3)	9.906	9.908	-0.002	2153262474	750.000	751
12 Aroclor 1260 (4)	11.079	11.082	-0.003	605262114	750.000	747
13 Aroclor 1260 (5)	11.263	11.265	-0.002	1372376241	750.000	742
T 56 Decachlorobiphenyl	11.918	11.920	-0.002	9441471856	150.000	151



Data File: /chem1/SV06/GC\_58.i/170523.b/17052324.d

Date : 23-MAY-2017 17:45

Client ID:

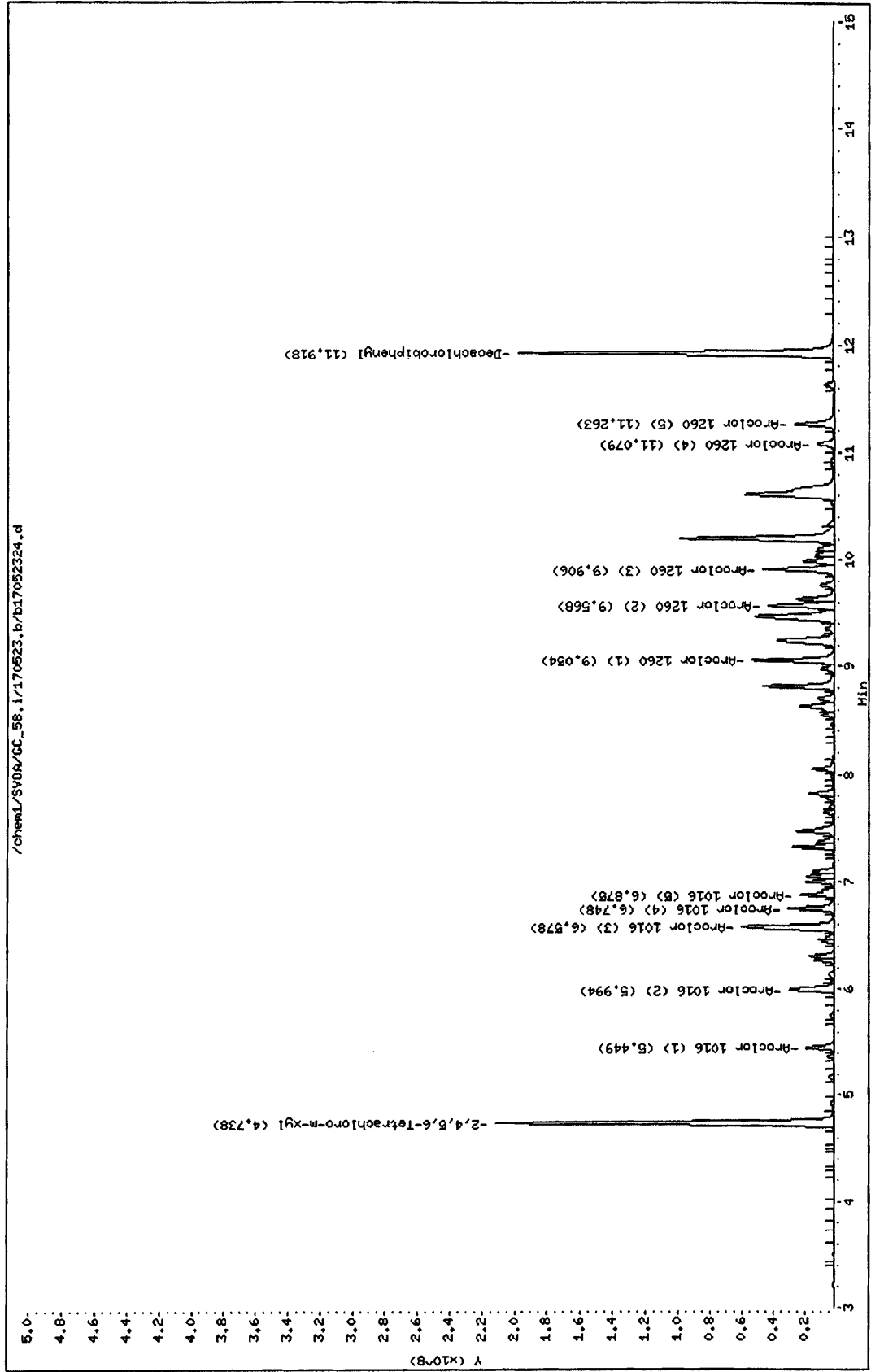
Sample Info: PCB ICAL-4 750 PPB POS1717C

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phases:



Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052325.d  
 Report Date: 24-May-2017 09:21

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052325.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 18:03  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB ICAL-5 2000 PPB P051717B  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 18:03 Cal File: b17052325.d  
 Als bottle: 25 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.736	4.738	-0.002	25182970224	400.000	397
M 2 Aroclor-1016				21038370403	2000.00	1830
3 Aroclor 1016 (1)	5.448	5.450	-0.002	1985912516	2000.00	1770
4 Aroclor 1016 (2)	5.994	5.995	-0.001	3762163387	2000.00	1790
5 Aroclor 1016 (3)	6.577	6.579	-0.002	8801155601	2000.00	1860
6 Aroclor 1016 (4)	6.748	6.749	-0.001	3590590278	2000.00	1810
7 Aroclor 1016 (5)	6.874	6.876	-0.002	2898548620	2000.00	1840
M 8 Aroclor-1260				22248564025	2000.00	1930
9 Aroclor 1260 (1)	9.053	9.057	-0.004	6434781416	2000.00	1860
10 Aroclor 1260 (2)	9.566	9.570	-0.004	4953039353	2000.00	1930
11 Aroclor 1260 (3)	9.903	9.908	-0.005	5644604301	2000.00	1970
12 Aroclor 1260 (4)	11.076	11.082	-0.006	1600986118	2000.00	1980
13 Aroclor 1260 (5)	11.258	11.265	-0.007	3615152837	2000.00	1950
T 56 Decachlorobiphenyl	11.916	11.920	-0.004	25167669245	400.000	403 (A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem1/SVDR/GC\_58.i/170523.b/b17052325.d

Date : 23-MAY-2017 18:03

Client ID:

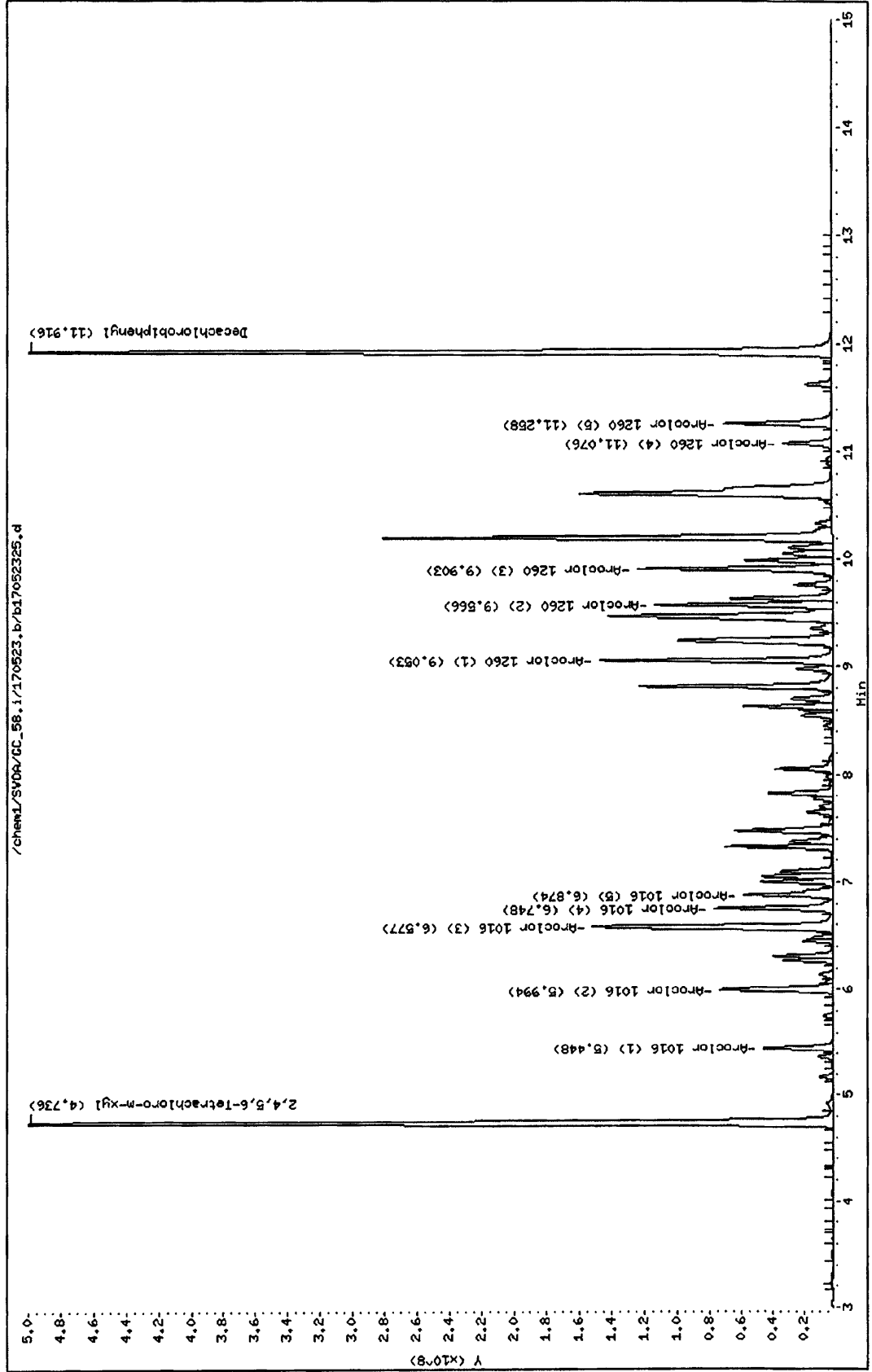
Sample Info: PCB ICAL-5 2000 PPB P051717B

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:





Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052326.d  
 Report Date: 24-May-2017 09:21

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052326.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 18:21  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB ICV 500 PPB P051717H  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 18:03 Cal File: b17052325.d  
 Als bottle: 26 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.737	4.738	-0.001	6302888462	100.000	99.4
M 2 Aroclor-1016				5445235991	500.000	473
3 Aroclor 1016 (1)	5.449	5.450	-0.001	517908985	500.000	461
4 Aroclor 1016 (2)	5.994	5.995	-0.001	988768463	500.000	470
5 Aroclor 1016 (3)	6.578	6.579	-0.001	2258835652	500.000	478
6 Aroclor 1016 (4)	6.748	6.749	-0.001	937613381	500.000	472
7 Aroclor 1016 (5)	6.875	6.876	-0.001	742109510	500.000	472
M 8 Aroclor-1260				5585084073	500.000	484
9 Aroclor 1260 (1)	9.054	9.056	-0.002	1718987489	500.000	498
10 Aroclor 1260 (2)	9.568	9.569	-0.001	1213801439	500.000	474
11 Aroclor 1260 (3)	9.906	9.908	-0.002	1389340323	500.000	485
12 Aroclor 1260 (4)	11.078	11.081	-0.003	370531960	500.000	457
13 Aroclor 1260 (5)	11.260	11.264	-0.004	892422862	500.000	482
T 56 Decachlorobiphenyl	11.917	11.920	-0.003	6390983662	100.000	102



Data File: /chem1/SVDR/GC\_58.i/170523.b/b17052326.d

Date : 23-MAY-2017 18:21

Client ID:

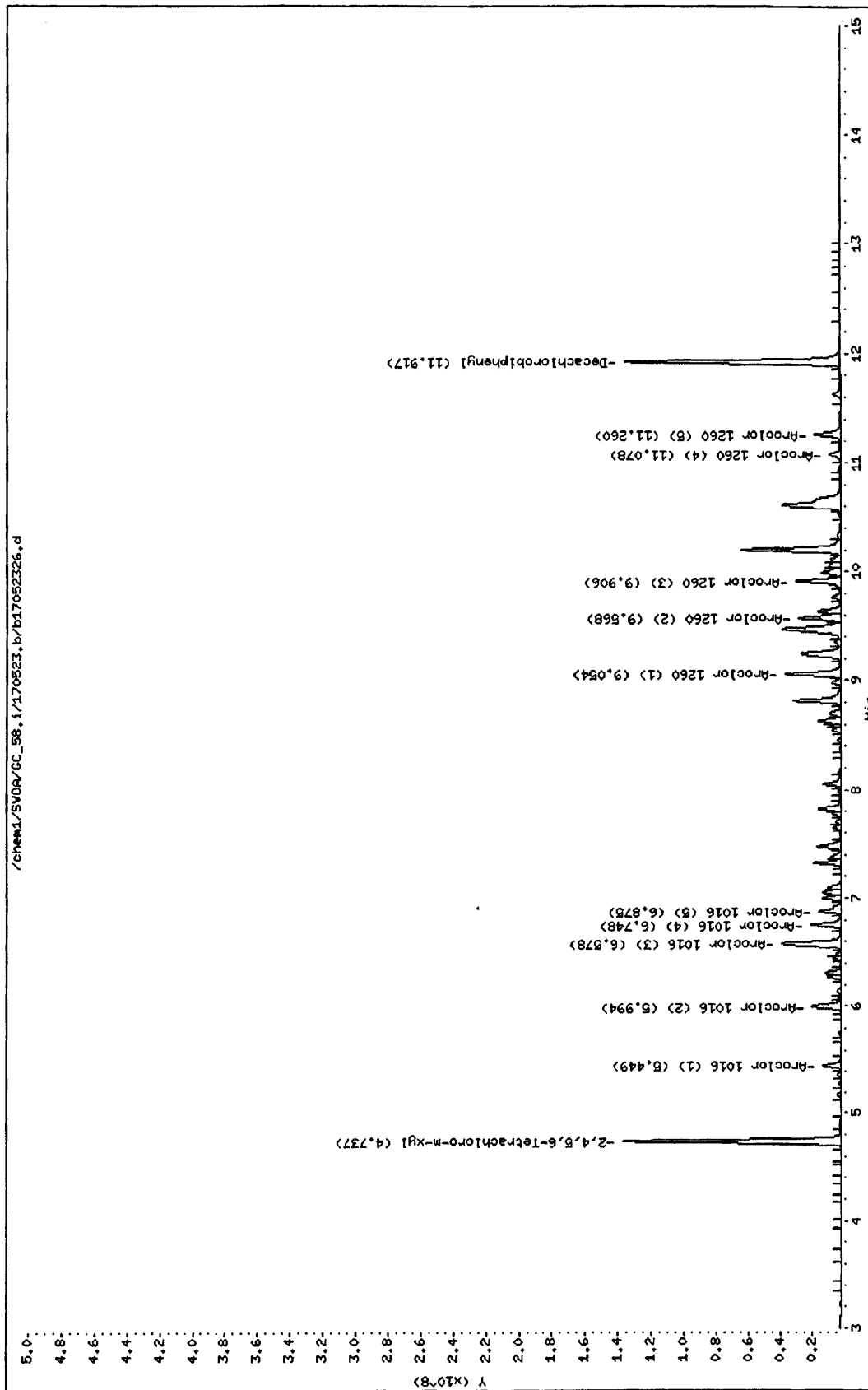
Sample Info: PCB ICV 500 PPB P061717H

Instrument: GC\_58.1

Operator: 944

Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052327.d  
 Report Date: 24-May-2017 09:21

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052327.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 18:39  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB 1221/54 500 PPB P051717J  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 27 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1221\_1254.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
M 14 Aroclor-1221				1731328772	500.000	500
15 Aroclor 1221 (1)	4.069	4.069	0.000	259107710	500.000	500
16 Aroclor 1221 (2)	5.169	5.169	0.000	331747886	500.000	500
17 Aroclor 1221 (3)	5.366	5.366	0.000	217198956	500.000	500
18 Aroclor 1221 (4)	5.449	5.449	0.000	788197780	500.000	500
19 Aroclor 1221 (5)	5.988	5.988	0.000	135076440	500.000	500
M 38 Aroclor-1254				6513189667	500.000	500
39 Aroclor 1254 (1)	7.824	7.824	0.000	1107465181	500.000	500
40 Aroclor 1254 (2)	8.120	8.120	0.000	579328550	500.000	500
41 Aroclor 1254 (3)	8.590	8.590	0.000	1922498149	500.000	500
42 Aroclor 1254 (4)	8.859	8.859	0.000	1368954174	500.000	500
43 Aroclor 1254 (5)	9.262	9.262	0.000	1534943613	500.000	500



Data File: /chem1/SV004/DC\_58.i/170523.b/b17052327.d

Date : 23-MAY-2017 18:39

Client ID:

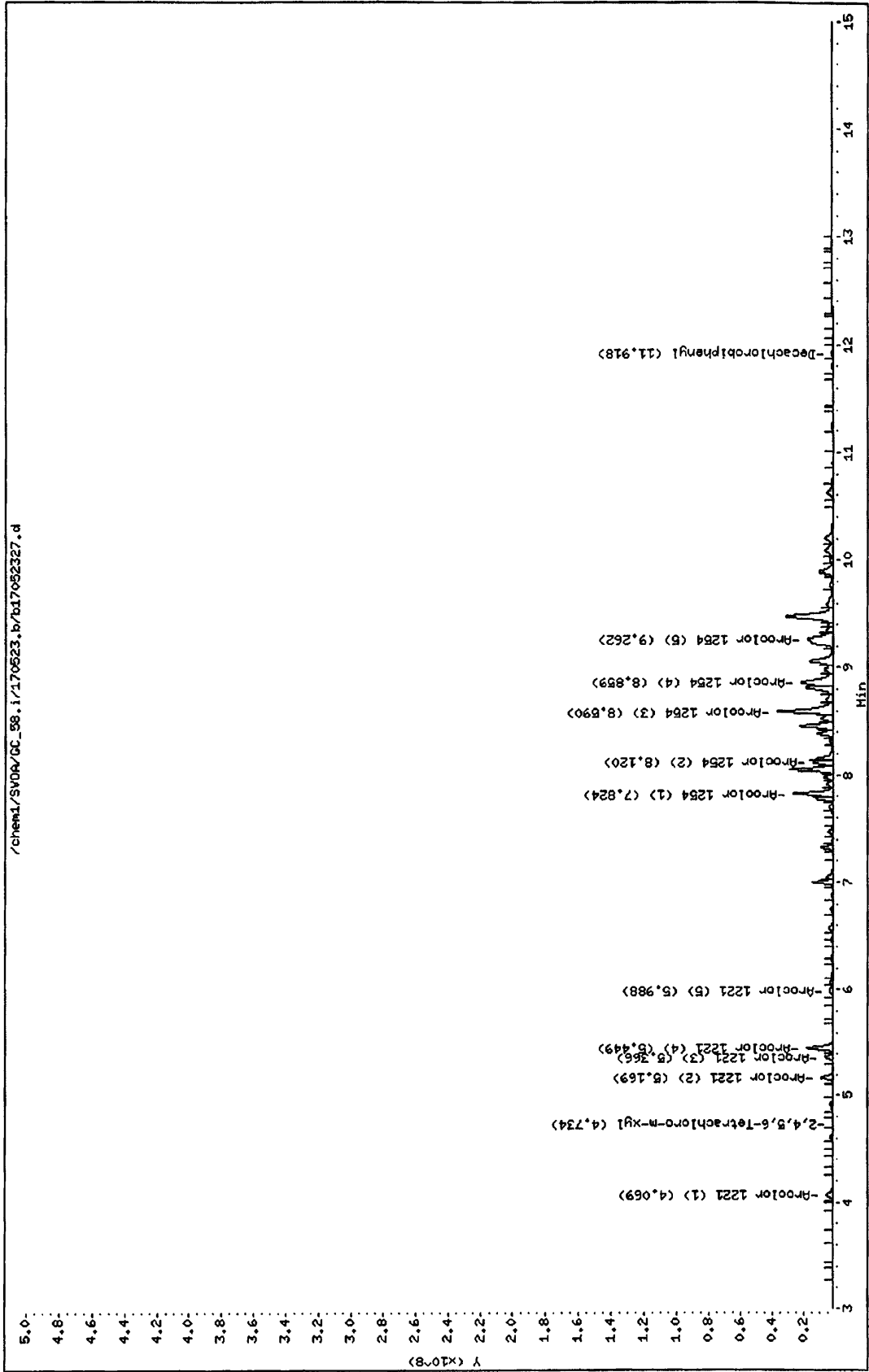
Sample Info: PCB 1221/54 500 PPB P051717J

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052328.d  
 Report Date: 24-May-2017 09:21

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052328.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 18:57  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB 1232/62 500 PPB P051717K  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 28 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1232\_1262.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
M 20 Aroclor-1232				3228108755	500.000	500
21 Aroclor 1232 (1)	5.450	5.450	0.000	630142373	500.000	500
22 Aroclor 1232 (2)	5.994	5.994	0.000	549970359	500.000	500
23 Aroclor 1232 (3)	6.578	6.578	0.000	1169960732	500.000	500
24 Aroclor 1232 (4)	6.749	6.749	0.000	492864101	500.000	500
25 Aroclor 1232 (5)	6.875	6.875	0.000	385171190	500.000	500
M 44 Aroclor-1262				7524136164	500.000	500
45 Aroclor 1262 (1)	9.056	9.056	0.000	1445246875	500.000	500
46 Aroclor 1262 (2)	9.569	9.569	0.000	1975851113	500.000	500
47 Aroclor 1262 (3)	9.907	9.907	0.000	1879904013	500.000	500
48 Aroclor 1262 (4)	11.081	11.081	0.000	639085749	500.000	500
49 Aroclor 1262 (5)	11.265	11.265	0.000	1584048414	500.000	500

Data File: /chem1/SVDR/GC\_58.i/170523.b/b17052328.d

Date : 23-MAY-2017 18:57

Client ID:

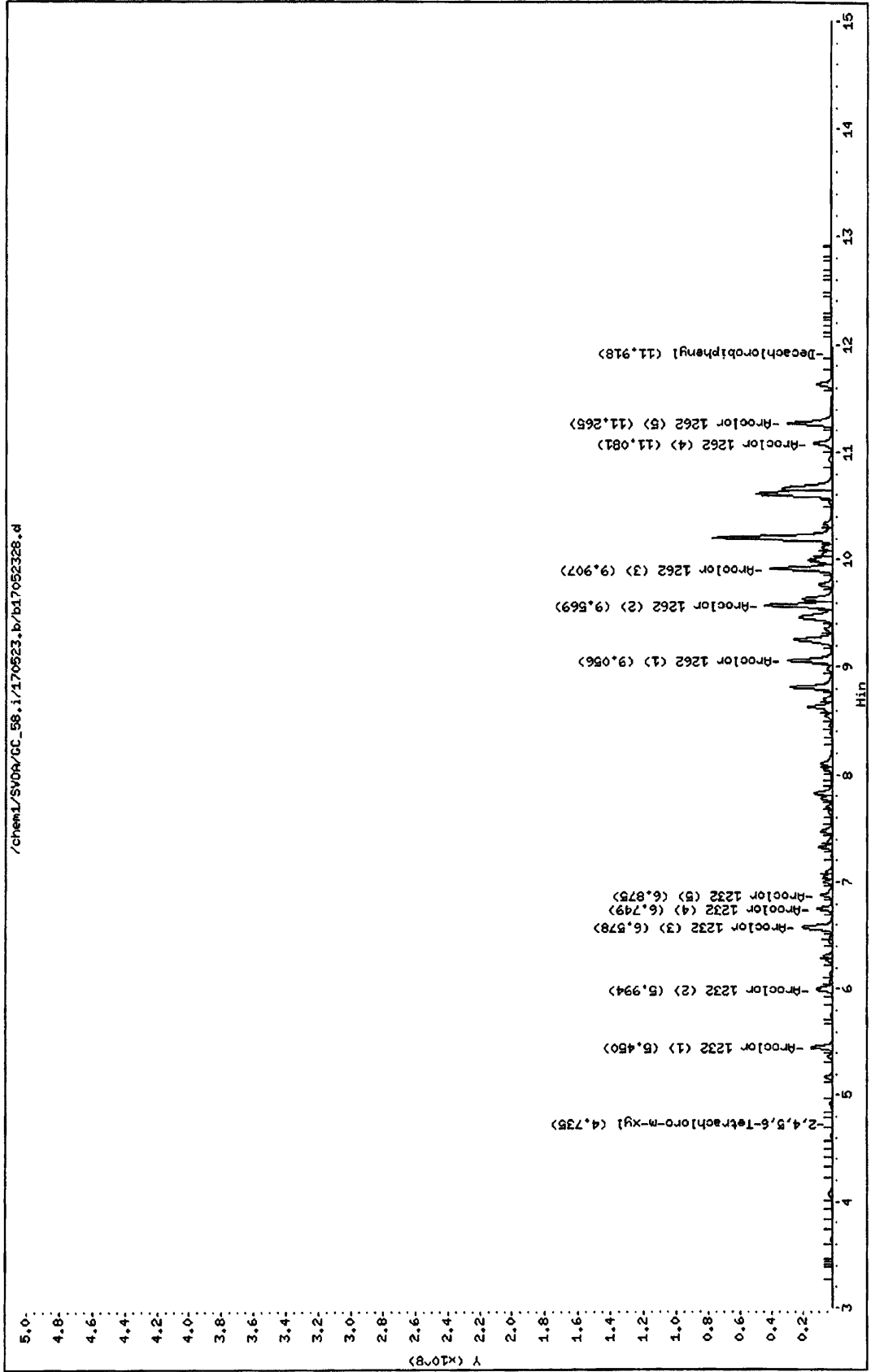
Sample Info: PCB 1232/62 500 PPB P051717K

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052329.d  
 Report Date: 24-May-2017 09:21

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052329.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 19:15  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB 1248/68 500 PPB P051717L  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 29 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1248\_1268.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
M 32 Aroclor-1248				4292806725	500.000	500
33 Aroclor 1248 (1)	6.575	6.575	0.000	1237175702	500.000	500
34 Aroclor 1248 (2)	7.050	7.050	0.000	595284036	500.000	500
35 Aroclor 1248 (3)	7.095	7.095	0.000	465048330	500.000	500
36 Aroclor 1248 (4)	7.323	7.323	0.000	927707908	500.000	500
37 Aroclor 1248 (5)	7.471	7.471	0.000	1067590749	500.000	500
M 50 Aroclor-1268				26734072112	500.000	500
51 Aroclor 1268 (1)	10.597	10.597	0.000	4337285233	500.000	500
52 Aroclor 1268 (2)	10.651	10.651	0.000	5588601365	500.000	500
53 Aroclor 1268 (3)	10.935	10.935	0.000	3541388006	500.000	500
54 Aroclor 1268 (4)	11.261	11.261	0.000	1648297268	500.000	500
55 Aroclor 1268 (5)	11.628	11.628	0.000	11618500240	500.000	500

Data File: /chem1/SV06/GC\_58.i/170523.b/b17052329.d

Date : 23-MAY-2017 19:15

Client ID:

Sample Info: PCB 1248/68 500 PPB P061717L

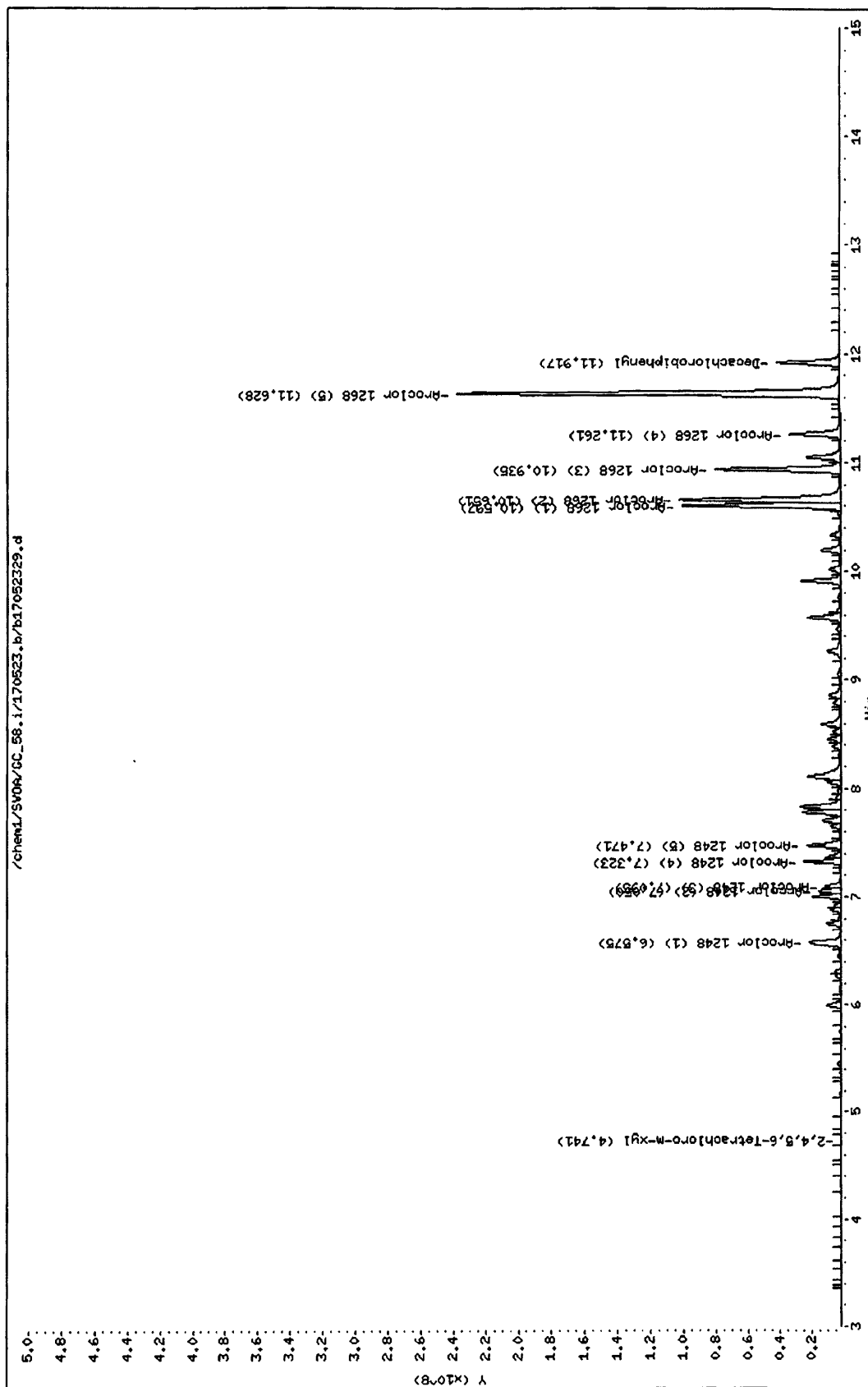
Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:

/chem1/SV06/GC\_58.i/170523.b/b17052329.d





Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052330.d  
 Report Date: 24-May-2017 09:21

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052330.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 19:33  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB 1242 500 PPB P051717M  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 30 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1242.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
M 26 Aroclor-1242				5389512491	500.000	500
27 Aroclor 1242 (1)	5.450	5.450	0.000	508226939	500.000	500
28 Aroclor 1242 (2)	5.995	5.995	0.000	987164741	500.000	500
29 Aroclor 1242 (3)	6.579	6.579	0.000	2221729562	500.000	500
30 Aroclor 1242 (4)	6.750	6.750	0.000	932661040	500.000	500
31 Aroclor 1242 (5)	6.876	6.876	0.000	739730209	500.000	500

Data File: /chem1/SVDA/GC\_58.i/170523.b/b17052330.d

Date : 23-MAY-2017 19:33

Client ID:

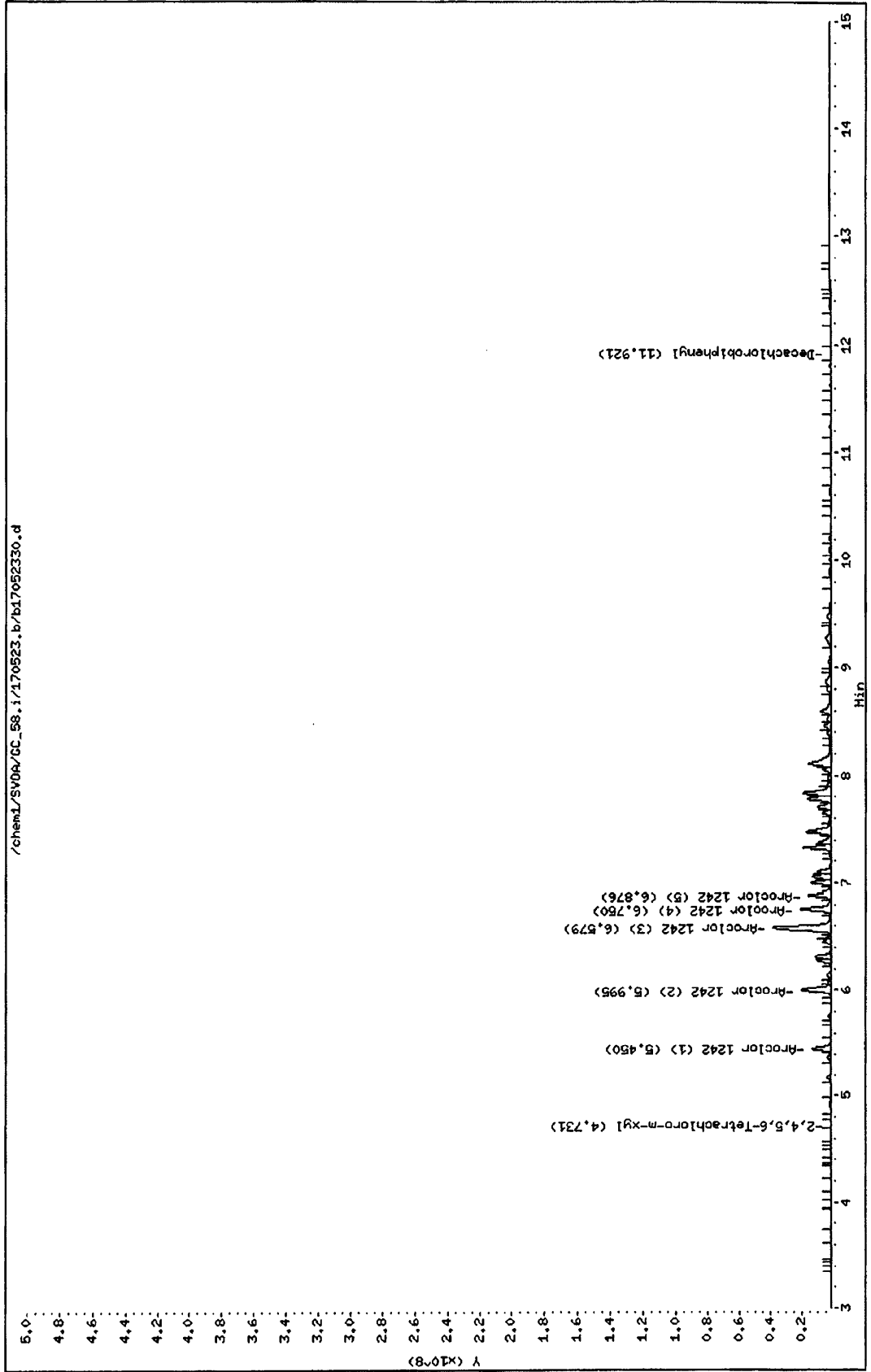
Sample Info: PCB 1242 900 PPB P051717M

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:




# EPA METHOD 8082 PCB

## Sample Data

# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 19:50  
**REVIEWED BY:**   
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705253117052531

**# 1**                      **CLIENT SAMPLE NUMBER: DDP-S001**

<b>LCS/MB BATCH:</b> 170523L12	<b>SAMPLE VOLUME / WEIGHT:</b> DEFAULT: 20.00 g / ACTUAL: 20.20 g
<b>MS/MSD BATCH:</b> 170523S12	<b>FINAL VOLUME / WEIGHT:</b> DEFAULT: 10.00 ml / ACTUAL: 10.00 ml
<b>UNITS:</b> ug/kg	<b>ADJUSTMENT RATIO TO PF:</b> 0.99

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	294	1.00	146	50	
Aroclor-1260	0.000	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052531.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052531.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 19:50  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-1  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 31  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.743	4.740	0.003	3895701565	61.4612	61.5
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				Compound Not Detected.		
9 Aroclor 1260 (1)				Compound Not Detected.		
10 Aroclor 1260 (2)				Compound Not Detected.		
11 Aroclor 1260 (3)				Compound Not Detected.		
12 Aroclor 1260 (4)				Compound Not Detected.		
13 Aroclor 1260 (5)				Compound Not Detected.		
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052531.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
===== 22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						3832506896	294.211	294
39 Aroclor 1254 (1)	7.829	7.824	0.005		139428375	62.9493	62.9 (a)	
40 Aroclor 1254 (2)	8.123	8.120	0.003		256027491	220.969	221 (M)	
41 Aroclor 1254 (3)	8.590	8.590	0.000		806656820	209.794	210	
42 Aroclor 1254 (4)	8.852	8.859	-0.007		1168801814	426.896	427	
43 Aroclor 1254 (5)	9.254	9.262	-0.008		1461592396	476.106	476	
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	11.915	11.920	-0.005		5299670855	84.8791	84.9	

### QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: /chem1/SV0A/GC\_58.i/170525.b/b17052531.d

Date: 25-MAY-2017 19:50

Client ID:

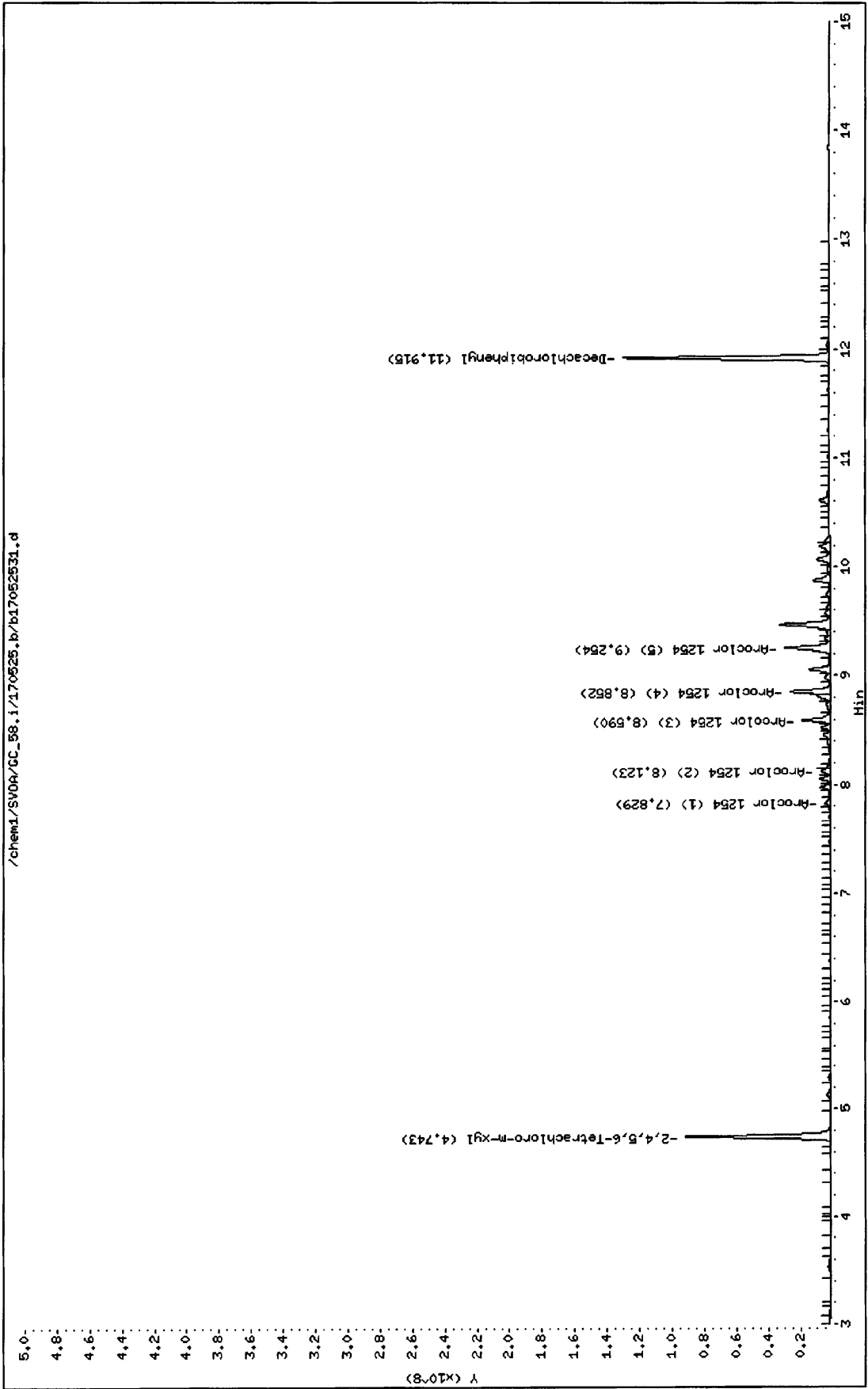
Sample Info: 17-05-1776-1

Instrument: GC\_58.i

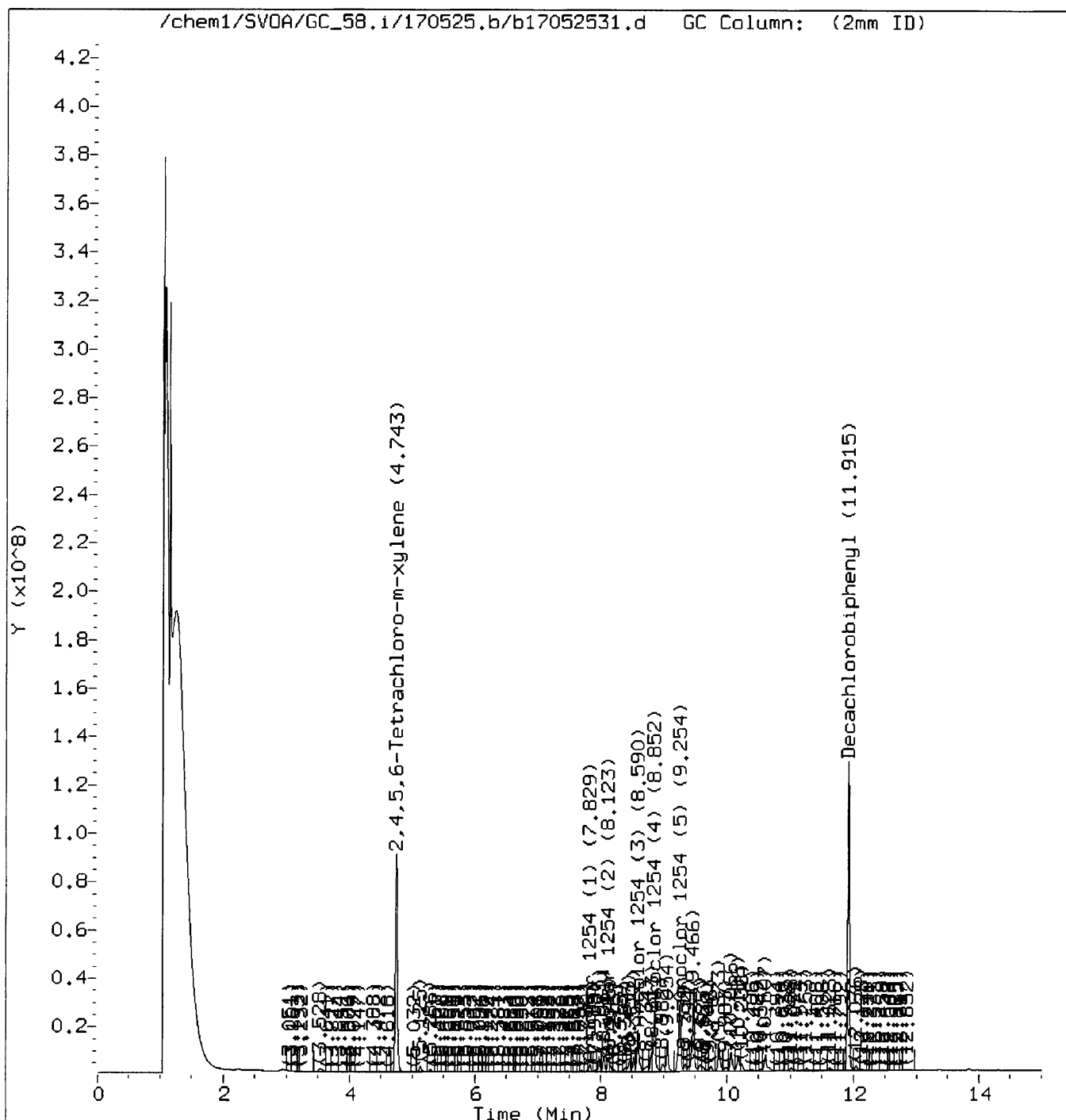
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



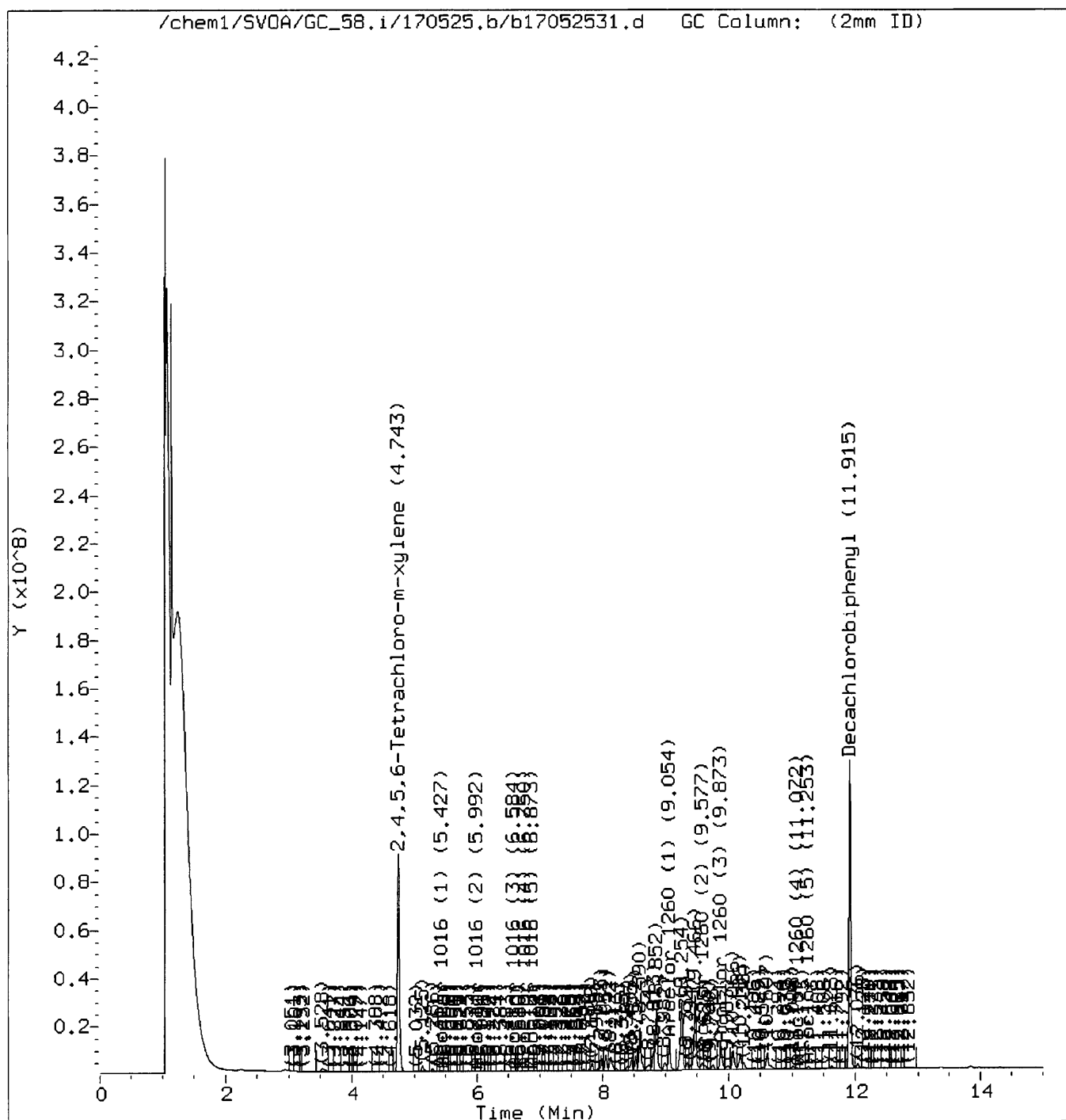
Reason for manual integration: Signal not integrated by automation

Analyst responsible for change: Digitally signed by Karen Lee  
 on 05/26/2017 at 11:01.  
 Target 3.5 esignature user ID: src3

Audit/management approval: \_\_\_\_\_



Original Data File



**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 20:08  
**REVIEWED BY:** *u*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705253217052532

**# 2**                      **CLIENT SAMPLE NUMBER: DDP-S002**

**LCS/MB BATCH:** 170523L12                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.10 g  
**MS/MSD BATCH:** 170523S12                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	56.8	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052532.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052532.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 20:08  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-2  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 32  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.744	4.740	0.004	3842946103	60.6289	60.6
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260				655239569	56.7944	56.8 (a)
9 Aroclor 1260 (1)	9.057	9.057	0.000	143747793	41.6661	41.7 (a)
10 Aroclor 1260 (2)	9.569	9.570	-0.001	136277662	53.2288	53.2 (a)
11 Aroclor 1260 (3)	9.901	9.908	-0.007	114432462	39.9235	39.9 (a)
12 Aroclor 1260 (4)	11.072	11.081	-0.009	64705153	79.8473	79.8 (a)
13 Aroclor 1260 (5)	11.254	11.264	-0.010	196076499	105.977	106
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052532.d  
 Report Date: 26-May-2017 11:01

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
===== 22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				Compound Not Detected.		
39 Aroclor 1254 (1)				Compound Not Detected.		
40 Aroclor 1254 (2)				Compound Not Detected.		
41 Aroclor 1254 (3)				Compound Not Detected.		
42 Aroclor 1254 (4)				Compound Not Detected.		
43 Aroclor 1254 (5)				Compound Not Detected.		
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.916	11.920	-0.004	5352870733	85.7311	85.7

QC Flag Legend

a - Target compound detected but, quantitated amount  
 Below Limit Of Quantitation(BLOQ).

Data File: /chem1/SV04/GC\_58.i/170525.b/b17052532.d

Date : 25-MAY-2017 20:08

Client ID:

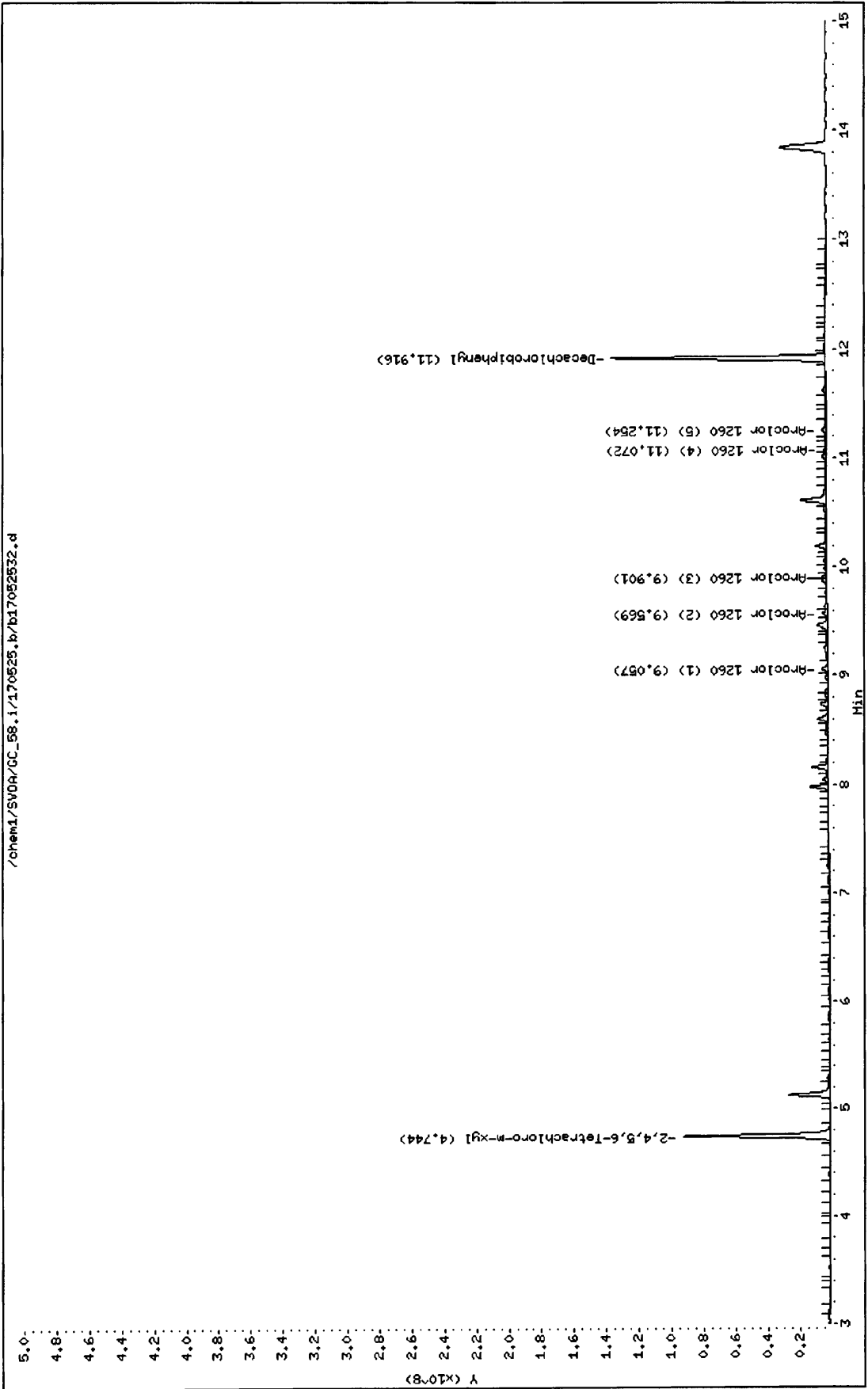
Sample Info: 17-05-1776-2

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 20:26  
**REVIEWED BY:** *M*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705253317052533

**# 3**                      **CLIENT SAMPLE NUMBER: DDP-S003**

<b>LCS/MB BATCH:</b> 170523L12	<b>SAMPLE VOLUME / WEIGHT:</b> DEFAULT: 20.00 g / ACTUAL: 20.00 g
<b>MS/MSD BATCH:</b> 170523S12	<b>FINAL VOLUME / WEIGHT:</b> DEFAULT: 10.00 ml / ACTUAL: 10.00 ml
<b>UNITS:</b> ug/kg	<b>ADJUSTMENT RATIO TO PF:</b> 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	557	1.00	278	50	
Aroclor-1260	0.000	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052533.d  
 Report Date: 26-May-2017 11:01

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052533.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 20:26  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-3  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 33  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.744	4.740	0.004	4581043552	72.2736	72.3
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				Compound Not Detected.		
9 Aroclor 1260 (1)				Compound Not Detected.		
10 Aroclor 1260 (2)				Compound Not Detected.		
11 Aroclor 1260 (3)				Compound Not Detected.		
12 Aroclor 1260 (4)				Compound Not Detected.		
13 Aroclor 1260 (5)				Compound Not Detected.		
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052533.d  
 Report Date: 26-May-2017 11:01

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
=====	==	=====	=====	=====	=====	=====
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				7257765686	557.159	557
39 Aroclor 1254 (1)	7.832	7.824	0.008	403114676	181.999	182
40 Aroclor 1254 (2)	8.121	8.120	0.001	506639484	437.264	437
41 Aroclor 1254 (3)	8.591	8.590	0.001	1394383201	362.649	363
42 Aroclor 1254 (4)	8.852	8.859	-0.007	2292518177	837.325	837
43 Aroclor 1254 (5)	9.254	9.262	-0.008	2661110148	866.843	867
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.915	11.920	-0.005	5766235136	92.3515	92.4



Data File: /chem1/SV04/GC\_58.i/170525.b/b17052533.d

Date : 25-MAY-2017 20:26

Client ID:

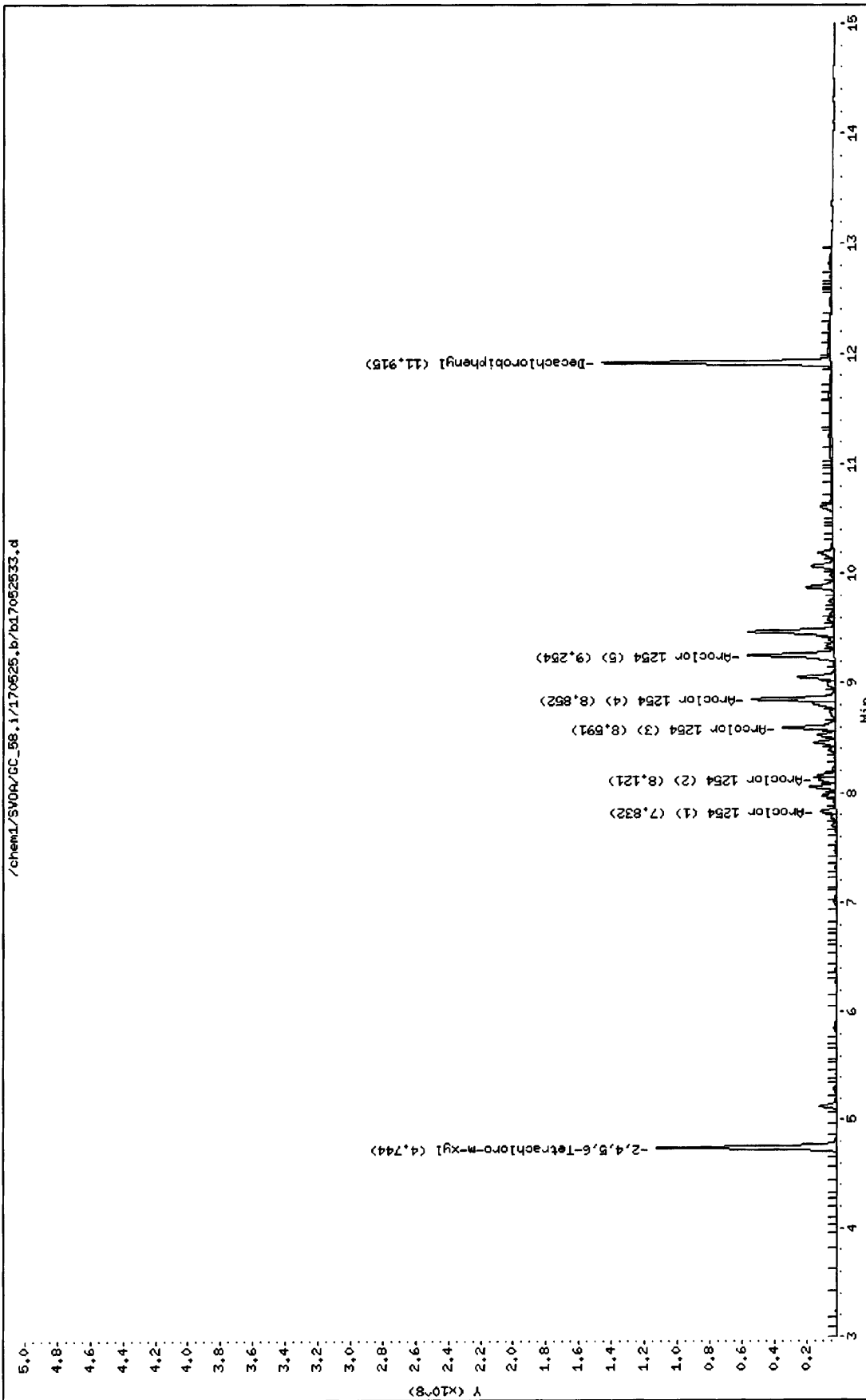
Sample Info: 17-05-1776-3

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 20:44  
**REVIEWED BY:** *AK*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705253417052534

**# 4**                      **CLIENT SAMPLE NUMBER: DDP-S004**

<b>LCS/MB BATCH:</b> 170523L12	<b>SAMPLE VOLUME / WEIGHT:</b> DEFAULT: 20.00 g / ACTUAL: 20.10 g
<b>MS/MSD BATCH:</b> 170523S12	<b>FINAL VOLUME / WEIGHT:</b> DEFAULT: 10.00 ml / ACTUAL: 10.00 ml
<b>UNITS:</b> ug/kg	<b>ADJUSTMENT RATIO TO PF:</b> 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	283	1.00	141	50	
Aroclor-1260	150	1.00	74.6	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052534.d  
 Report Date: 26-May-2017 11:01

Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052534.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 20:44  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-4  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 34  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.744	4.740	0.004	4167742110	65.7531	65.8
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260				1728541770	149.825	150
9 Aroclor 1260 (1)	9.056	9.057	-0.001	781616847	226.556	226
10 Aroclor 1260 (2)	9.570	9.570	0.000	334706750	130.733	131
11 Aroclor 1260 (3)	9.894	9.908	-0.014	183071339	63.8703	63.9 (aM)
12 Aroclor 1260 (4)	11.072	11.081	-0.009	81581467	100.673	101
13 Aroclor 1260 (5)	11.256	11.264	-0.008	347565367	187.856	188
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052534.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				3685791864	282.948	283
39 Aroclor 1254 (1)	7.830	7.824	0.006	356165233	160.802	161
40 Aroclor 1254 (2)	8.129	8.120	0.009	332798622	287.228	287 (M)
41 Aroclor 1254 (3)	8.590	8.590	0.000	913300967	237.530	238
42 Aroclor 1254 (4)	8.852	8.859	-0.007	879296880	321.156	321
43 Aroclor 1254 (5)	9.253	9.262	-0.009	1204230162	392.272	392
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.917	11.920	-0.003	5167222395	82.7578	82.8



QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: /chem1/SV0A/GC\_58.i/170525.b/b17052534.d

Date : 25-MAY-2017 20:44

Client ID:

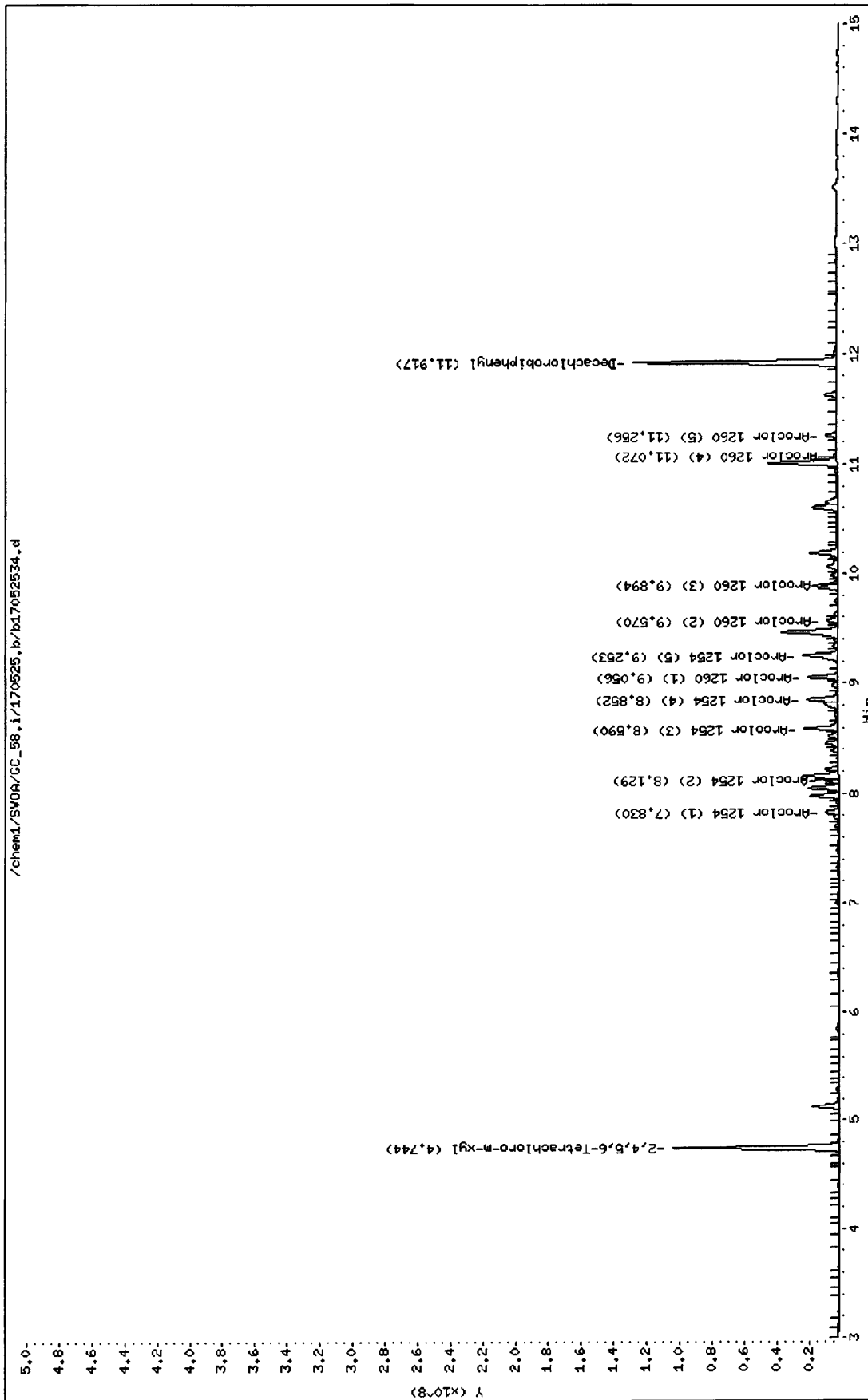
Sample Info: 17-05-1776-4

Instrument: GC\_58.i

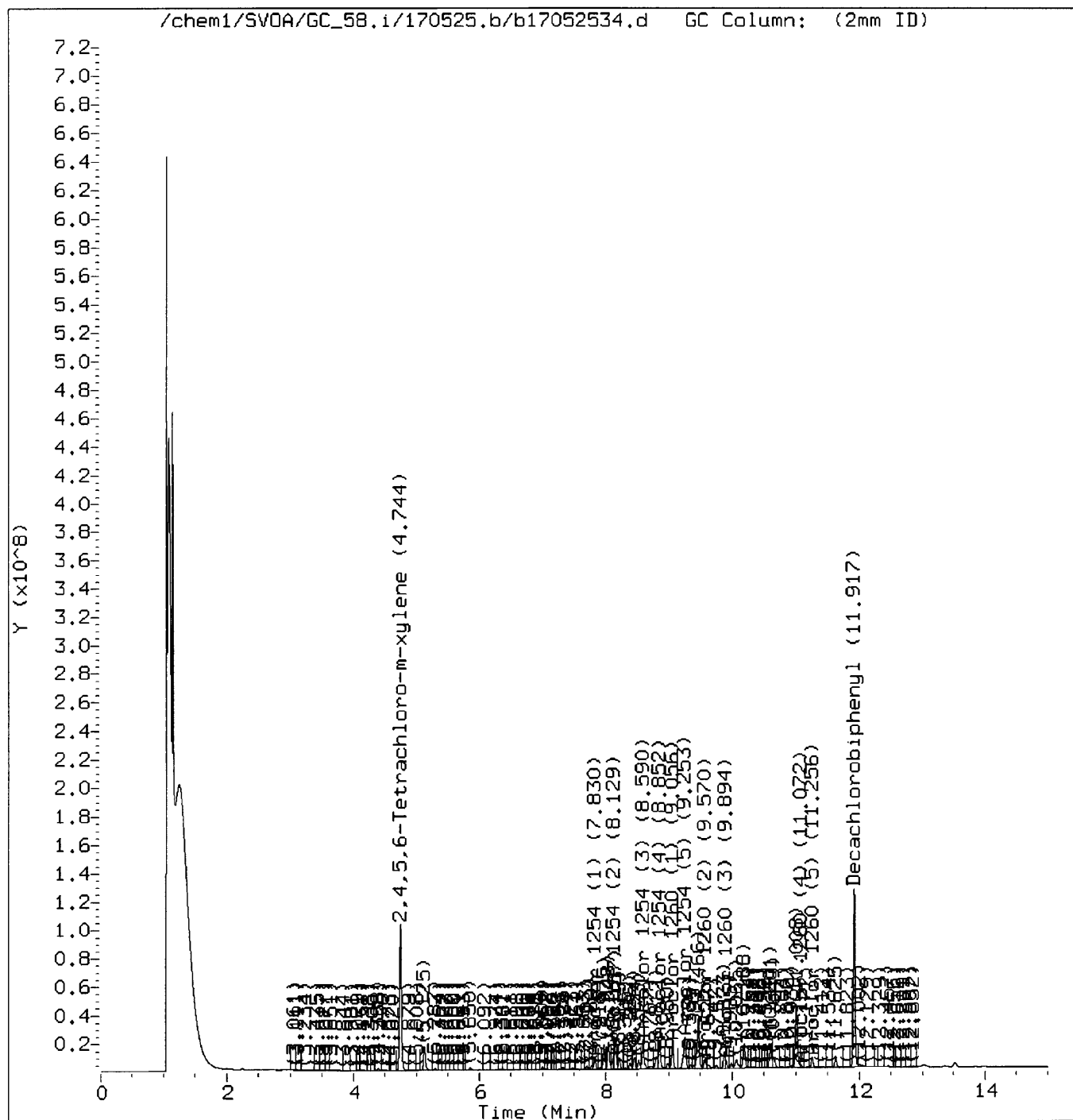
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee

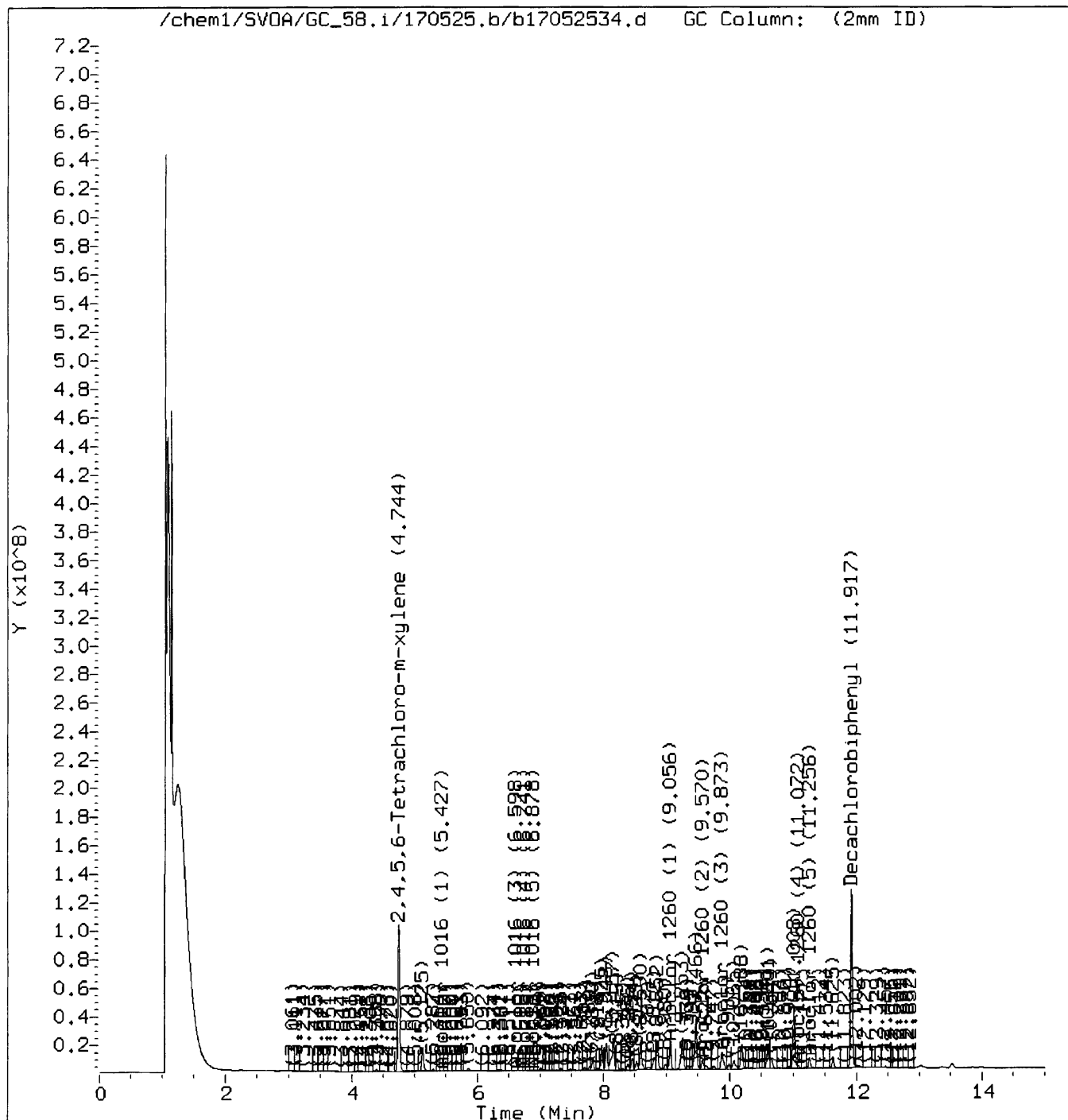
Analyst responsible for change: on 05/26/2017 at 11:02.

Target 3.5 esignature user ID: src3

*m*

Audit/management approval: \_\_\_\_\_

Original Data File



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 21:02  
**REVIEWED BY:** *M*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705253517052535

**# 5**                      **CLIENT SAMPLE NUMBER: DDP-S005**

<b>LCS/MB BATCH:</b> 170523L12	<b>SAMPLE VOLUME / WEIGHT:</b> DEFAULT: 20.00 g / ACTUAL: 20.10 g	
<b>MS/MSD BATCH:</b> 170523S12	<b>FINAL VOLUME / WEIGHT:</b> DEFAULT: 10.00 ml / ACTUAL: 10.00 ml	
<b>UNITS:</b> ug/kg	<b>ADJUSTMENT RATIO TO PF:</b> 1.00	

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	148	1.00	73.6	50	
Aroclor-1260	76.7	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052535.d  
 Report Date: 26-May-2017 11:01

Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052535.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 21:02  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-5  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 35  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.745	4.740	0.005	3497158540	55.1735	55.2		
M 2 Aroclor-1016				Compound Not Detected.				
3 Aroclor 1016 (1)				Compound Not Detected.				
4 Aroclor 1016 (2)				Compound Not Detected.				
5 Aroclor 1016 (3)				Compound Not Detected.				
6 Aroclor 1016 (4)				Compound Not Detected.				
7 Aroclor 1016 (5)				Compound Not Detected.				
M 8 Aroclor-1260				885013410	76.7105	76.7 (a)		
9 Aroclor 1260 (1)	9.054	9.057	-0.003	407486471	118.112	118		
10 Aroclor 1260 (2)	9.570	9.570	0.000	168840523	65.9476	65.9 (a)		
11 Aroclor 1260 (3)	9.895	9.908	-0.013	98723597	34.4429	34.4 (aM)		
12 Aroclor 1260 (4)	11.072	11.081	-0.009	52097925	64.2898	64.3 (a)		
13 Aroclor 1260 (5)	11.253	11.264	-0.011	157864894	85.3244	85.3 (aM)		
M 14 Aroclor-1221				Compound Not Detected.				
15 Aroclor 1221 (1)				Compound Not Detected.				
16 Aroclor 1221 (2)				Compound Not Detected.				
17 Aroclor 1221 (3)				Compound Not Detected.				
18 Aroclor 1221 (4)				Compound Not Detected.				
19 Aroclor 1221 (5)				Compound Not Detected.				
M 20 Aroclor-1232				Compound Not Detected.				
21 Aroclor 1232 (1)				Compound Not Detected.				



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052535.d  
 Report Date: 26-May-2017 11:01

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				1935040795	148.548	148
39 Aroclor 1254 (1)	7.828	7.824	0.004	107800143	48.6698	48.7 (a)
40 Aroclor 1254 (2)	8.135	8.120	0.015	185365603	159.983	160 (M)
41 Aroclor 1254 (3)	8.590	8.590	0.000	449367787	116.871	117
42 Aroclor 1254 (4)	8.850	8.859	-0.009	495054190	180.815	181
43 Aroclor 1254 (5)	9.251	9.262	-0.011	697453072	227.192	227
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.915	11.920	-0.005	4165243908	66.7102	66.7

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: /chem1/SV04/GC\_58.i/170525.b/b17052535.d

Date : 25-MAY-2017 21:02

Client ID:

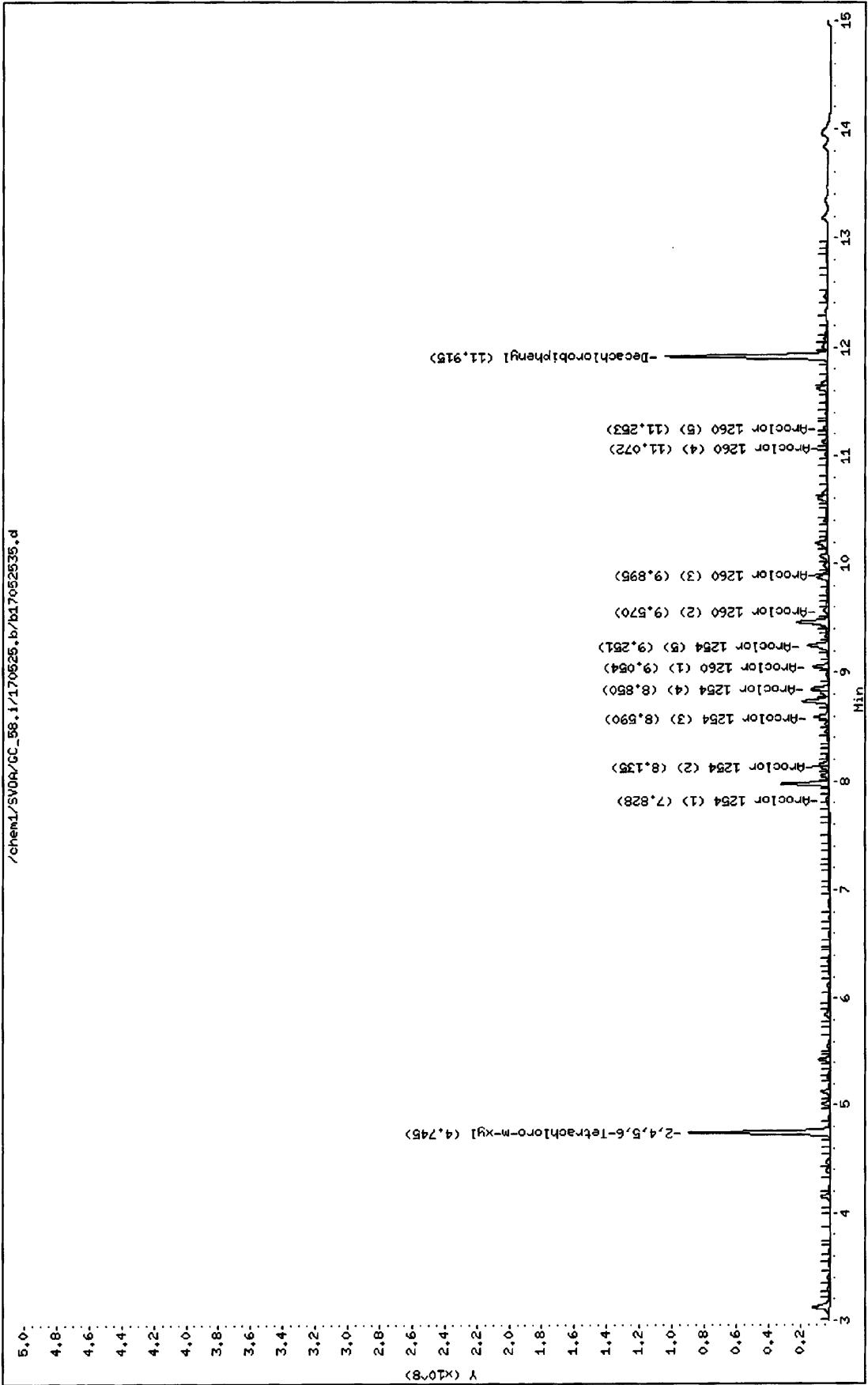
Sample Info: 17-05-1776-5

Instrument: GC\_58.i

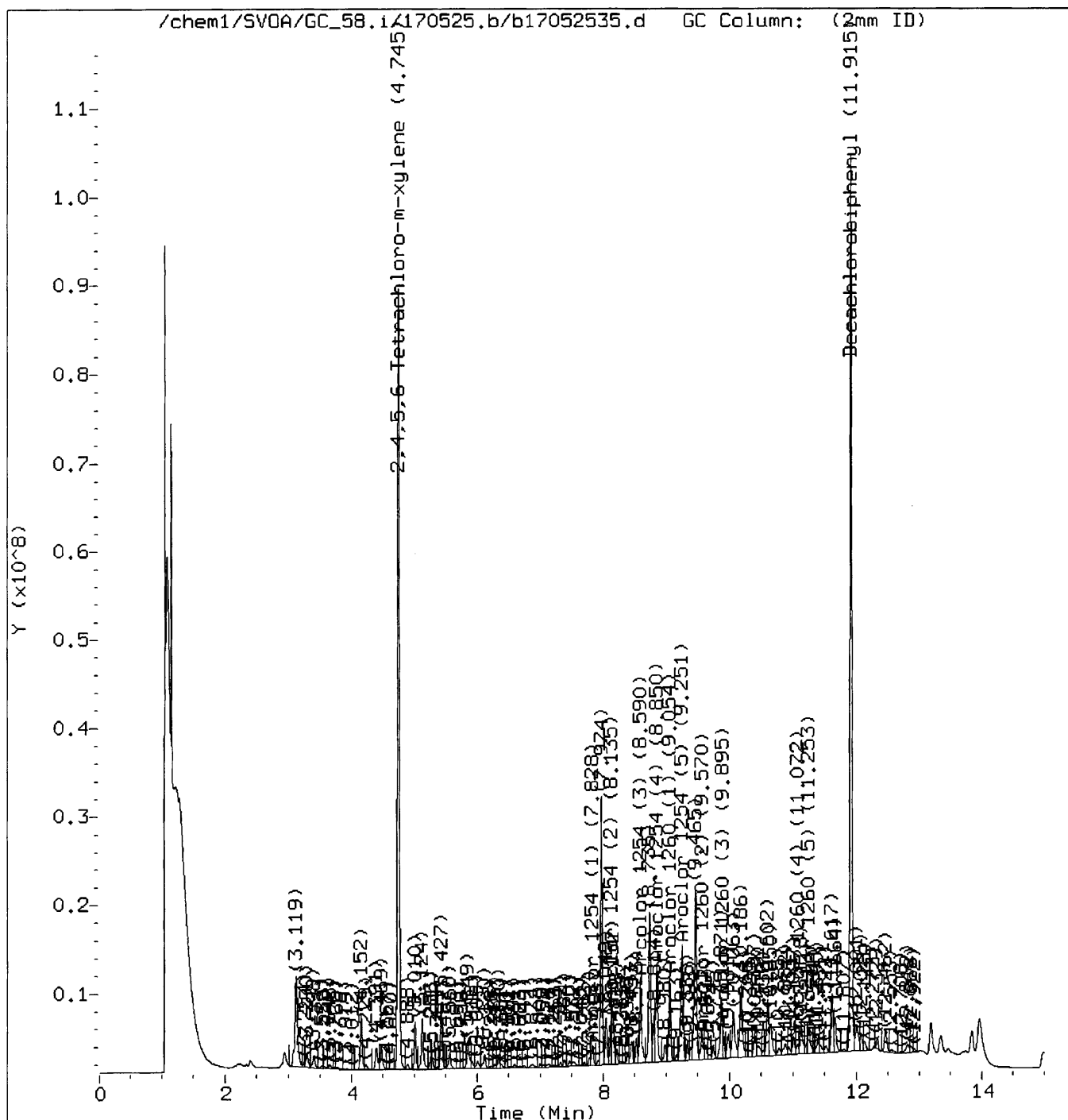
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee

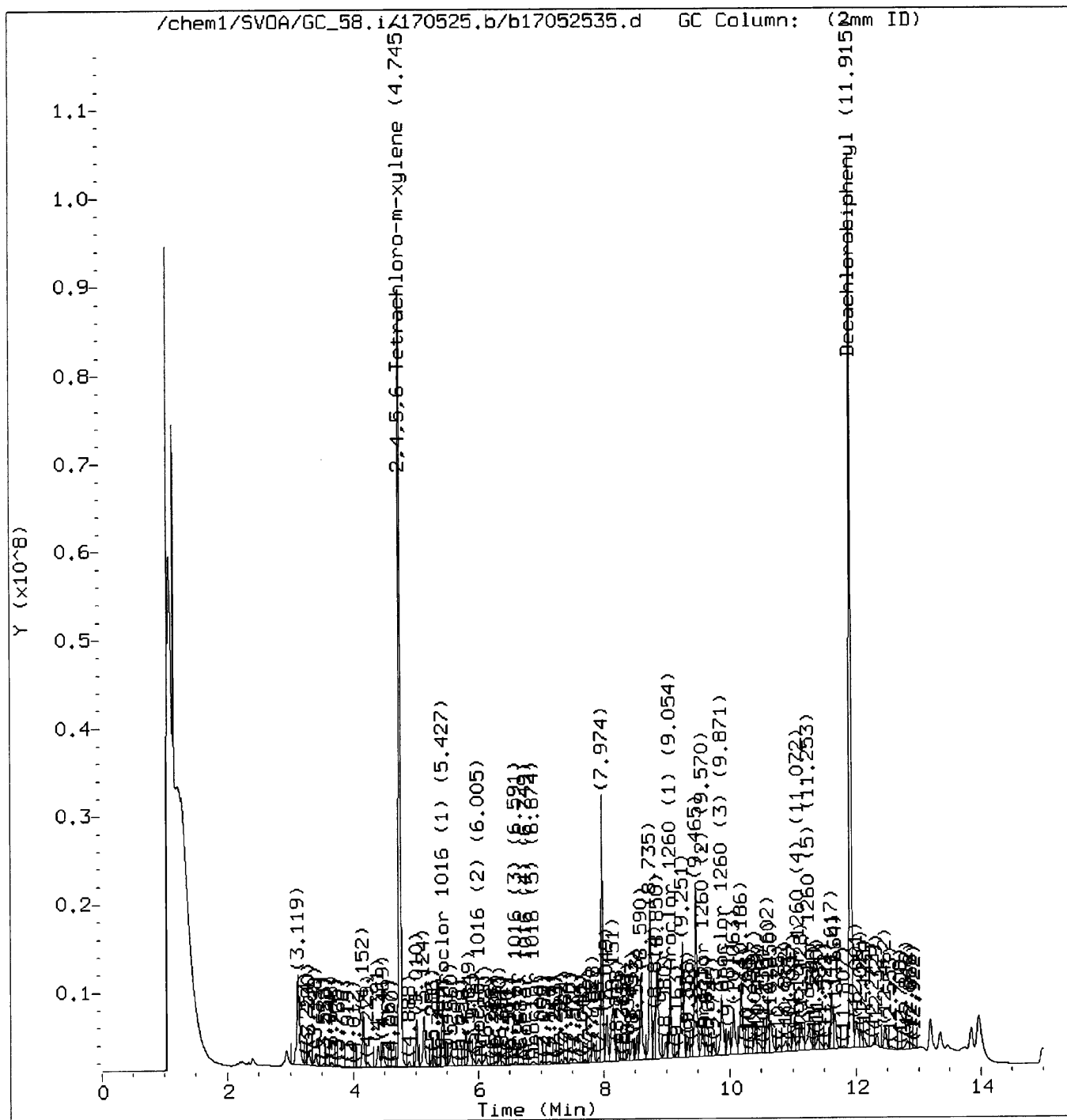
Analyst responsible for change: on 05/26/2017 at 11:02.

Target 3.5 esignature user ID: src3

*Handwritten signature*

Audit/management approval: \_\_\_\_\_

Original Data File



**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 21:20  
**REVIEWED BY:** *M*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705253617052536

**# 6**                      **CLIENT SAMPLE NUMBER: DDP-S006**

**LCS/MB BATCH:** 170523L12                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.00 g  
**MS/MSD BATCH:** 170523S12                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	130	1.00	65.0	50	
Aroclor-1260	0.000	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052536.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052536.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 21:20  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-6  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 36  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.744	4.740	0.004	4566690430	72.0472	72.0
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				Compound Not Detected.		
9 Aroclor 1260 (1)				Compound Not Detected.		
10 Aroclor 1260 (2)				Compound Not Detected.		
11 Aroclor 1260 (3)				Compound Not Detected.		
12 Aroclor 1260 (4)				Compound Not Detected.		
13 Aroclor 1260 (5)				Compound Not Detected.		
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052536.d  
 Report Date: 26-May-2017 11:01

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				1695577764	130.165	130
39 Aroclor 1254 (1)	7.828	7.824	0.004	182246233	82.2808	82.3 (a)
40 Aroclor 1254 (2)	8.124	8.120	0.004	76732971	66.2258	66.2 (aM)
41 Aroclor 1254 (3)	8.592	8.590	0.002	464735845	120.868	121
42 Aroclor 1254 (4)	8.853	8.859	-0.006	314989501	115.047	115
43 Aroclor 1254 (5)	9.255	9.262	-0.007	656873214	213.973	214
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.919	11.920	-0.001	5468874369	87.5890	87.6

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.



Data File: /chem1/SV00A/CC\_58.i/170525.b/b17052536.d

Date : 25-MAY-2017 21:20

Client ID:

Sample Info: 17-08-1776-6

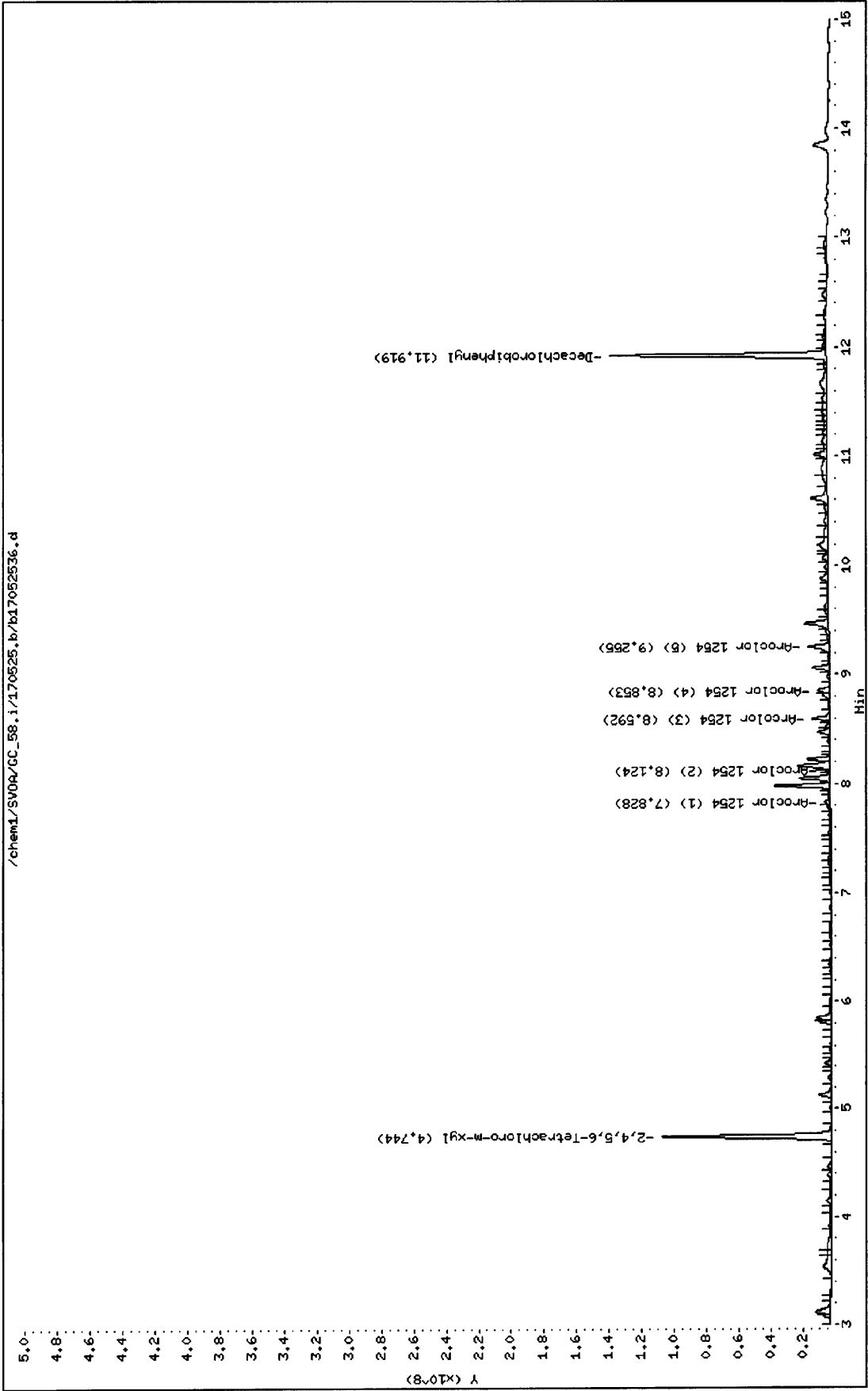
Instrument: GC\_58.i

Operator: 944

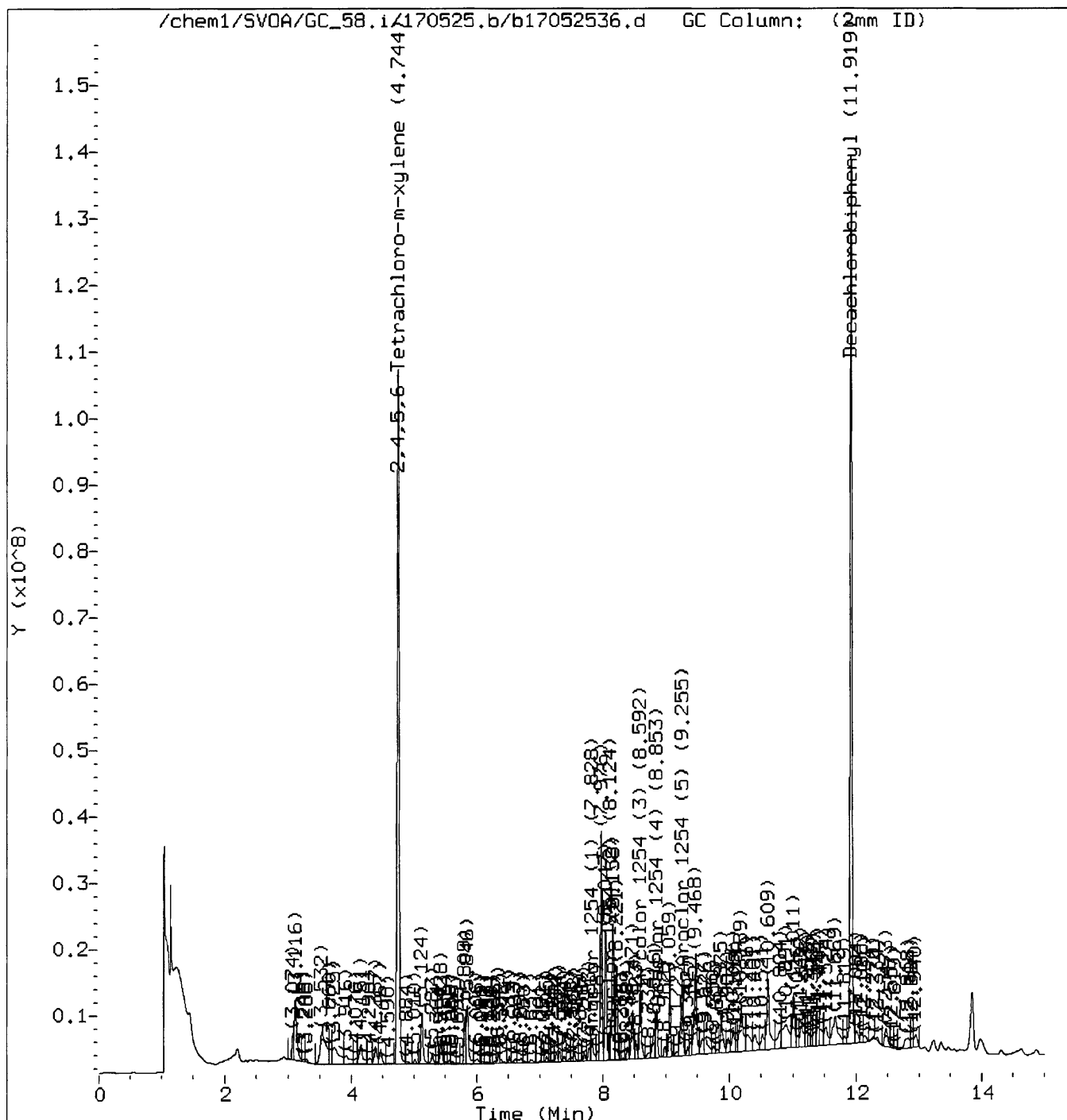
Column diameter: 2.00

Column phase:

/chem1/SV00A/CC\_58.i/170525.b/b17052536.d



Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee

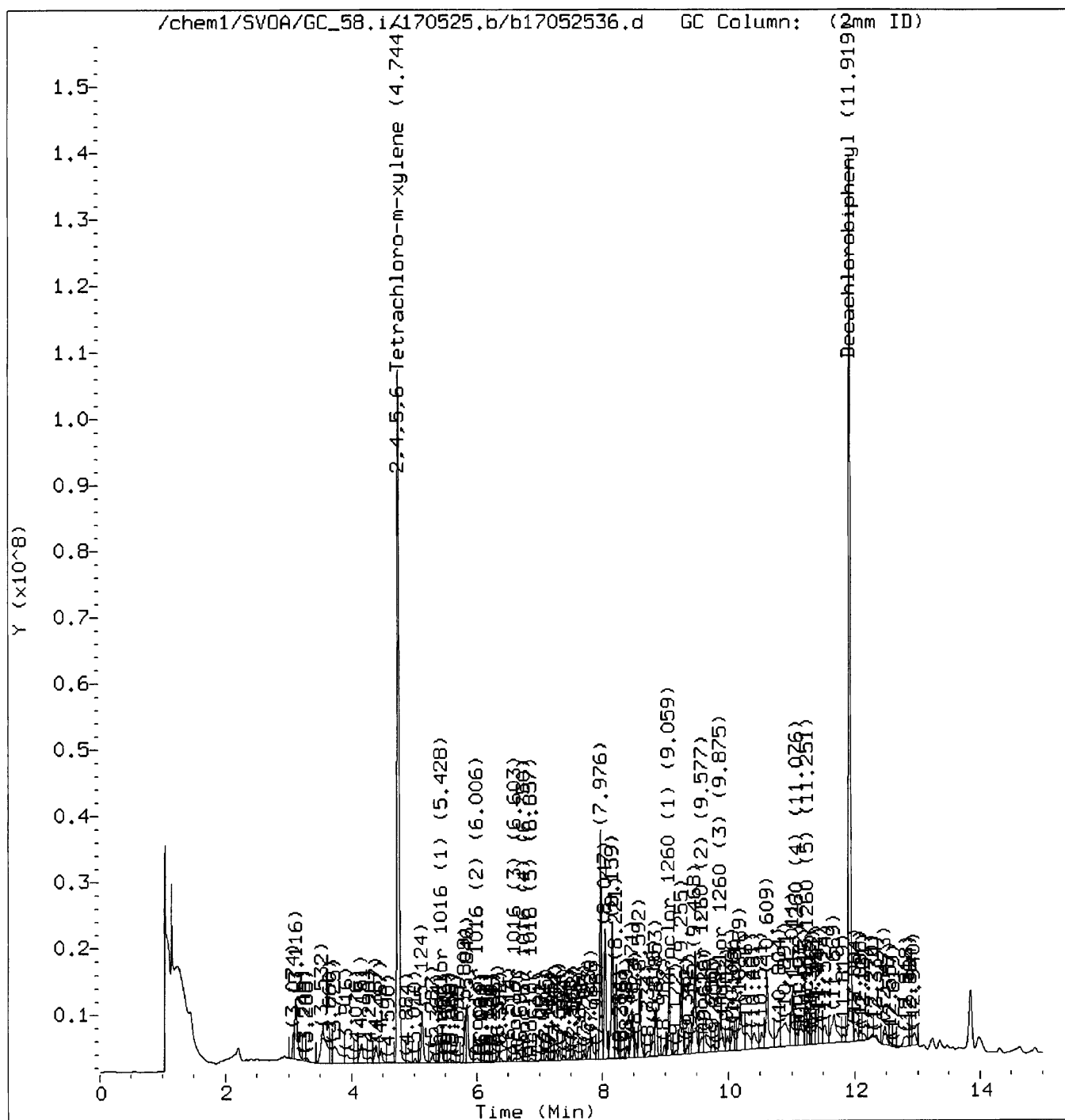
Analyst responsible for change: on 05/26/2017 at 11:02.

Target 3.5 esignature user ID: src3

Audit/management approval: \_\_\_\_\_

*m*

Original Data File



**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 21:38  
**REVIEWED BY:** *u*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705253717052537

**# 7**                      **CLIENT SAMPLE NUMBER:** DDP-S007

<b>LCS/MB BATCH:</b> 170523L12	<b>SAMPLE VOLUME / WEIGHT:</b> DEFAULT: 20.00 g / ACTUAL: 20.00 g
<b>MS/MSD BATCH:</b> 170523S12	<b>FINAL VOLUME / WEIGHT:</b> DEFAULT: 10.00 ml / ACTUAL: 10.00 ml
<b>UNITS:</b> ug/kg	<b>ADJUSTMENT RATIO TO PF:</b> 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	0.000	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052537.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052537.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 21:38  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-7  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 37  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.750	4.740	0.010	5213038292	82.2444	82.2
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				Compound Not Detected.		
9 Aroclor 1260 (1)				Compound Not Detected.		
10 Aroclor 1260 (2)				Compound Not Detected.		
11 Aroclor 1260 (3)				Compound Not Detected.		
12 Aroclor 1260 (4)				Compound Not Detected.		
13 Aroclor 1260 (5)				Compound Not Detected.		
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052537.d  
 Report Date: 26-May-2017 11:01

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
=====	==	=====	=====	=====	=====	=====	=====	=====
22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						Compound Not Detected.		
39 Aroclor 1254 (1)						Compound Not Detected.		
40 Aroclor 1254 (2)						Compound Not Detected.		
41 Aroclor 1254 (3)						Compound Not Detected.		
42 Aroclor 1254 (4)						Compound Not Detected.		
43 Aroclor 1254 (5)						Compound Not Detected.		
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	12.025	11.920		0.105	3400879918		54.4682	54.5

Data File: /chem1/SV04/GC\_58.i/170525.b/b17052537.d

Date: 25-MAY-2017 21:38

Client ID:

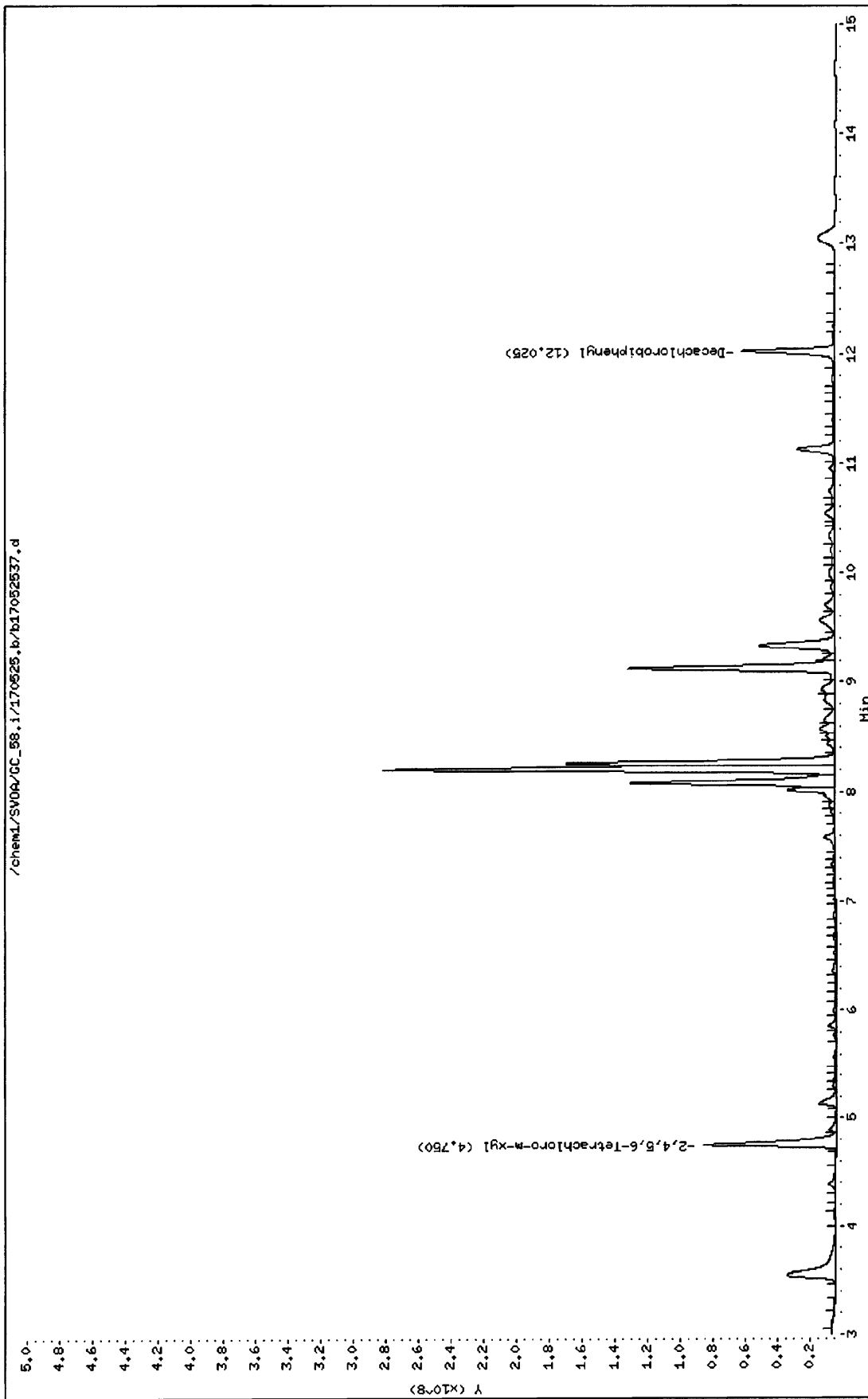
Sample Info: 17-05-1776-7

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 21:56  
**REVIEWED BY:**  
**D/T REVIEWED:** *M*

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705253817052538

**# 8**                      **CLIENT SAMPLE NUMBER: DDP-S008**

**LCS/MB BATCH:** 170523L12                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.00 g  
**MS/MSD BATCH:** 170523S12                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	39.8	1.00	ND	50	
Aroclor-1260	37.8	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052538.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052538.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 21:56  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-8  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 38  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.748	4.740	0.008	2770325948	43.7065	43.7
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				436485890	37.8334	37.8 (a)
9 Aroclor 1260 (1)	9.104	9.057	0.047	100561051	29.1481	29.1 (a)
10 Aroclor 1260 (2)	9.516	9.570	-0.054	203393555	79.4437	79.4 (a)
11 Aroclor 1260 (3)	9.952	9.908	0.044	21721439	7.57823	7.58 (aM)
12 Aroclor 1260 (4)	11.152	11.081	0.071	28995258	35.7807	35.8 (aM)
13 Aroclor 1260 (5)	11.353	11.264	0.089	81814587	44.2200	44.2 (a)
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052538.d  
 Report Date: 26-May-2017 11:01

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
=====	==	=====	=====	=====	=====	=====	=====	=====
22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						518260778	39.7855	39.8 (a)
39 Aroclor 1254 (1)	7.849	7.824	0.025		47895191	21.6238	21.6 (a)	
40 Aroclor 1254 (2)	8.178	8.120	0.058		132820937	114.634	115	
41 Aroclor 1254 (3)	8.621	8.590	0.031		101039619	26.2782	26.3 (a)	
42 Aroclor 1254 (4)	8.895	8.859	0.036		106355679	38.8456	38.8 (a)	
43 Aroclor 1254 (5)	9.298	9.262	0.036		130149352	42.3955	42.4 (a)	
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	12.001	11.920	0.081		2719169438	43.5500	43.5	

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.



Data File: /chem1/SV00A/GC\_58.i/170525.lb/b17052538.d

Date : 25-HAY-2017 21:56

Client ID:

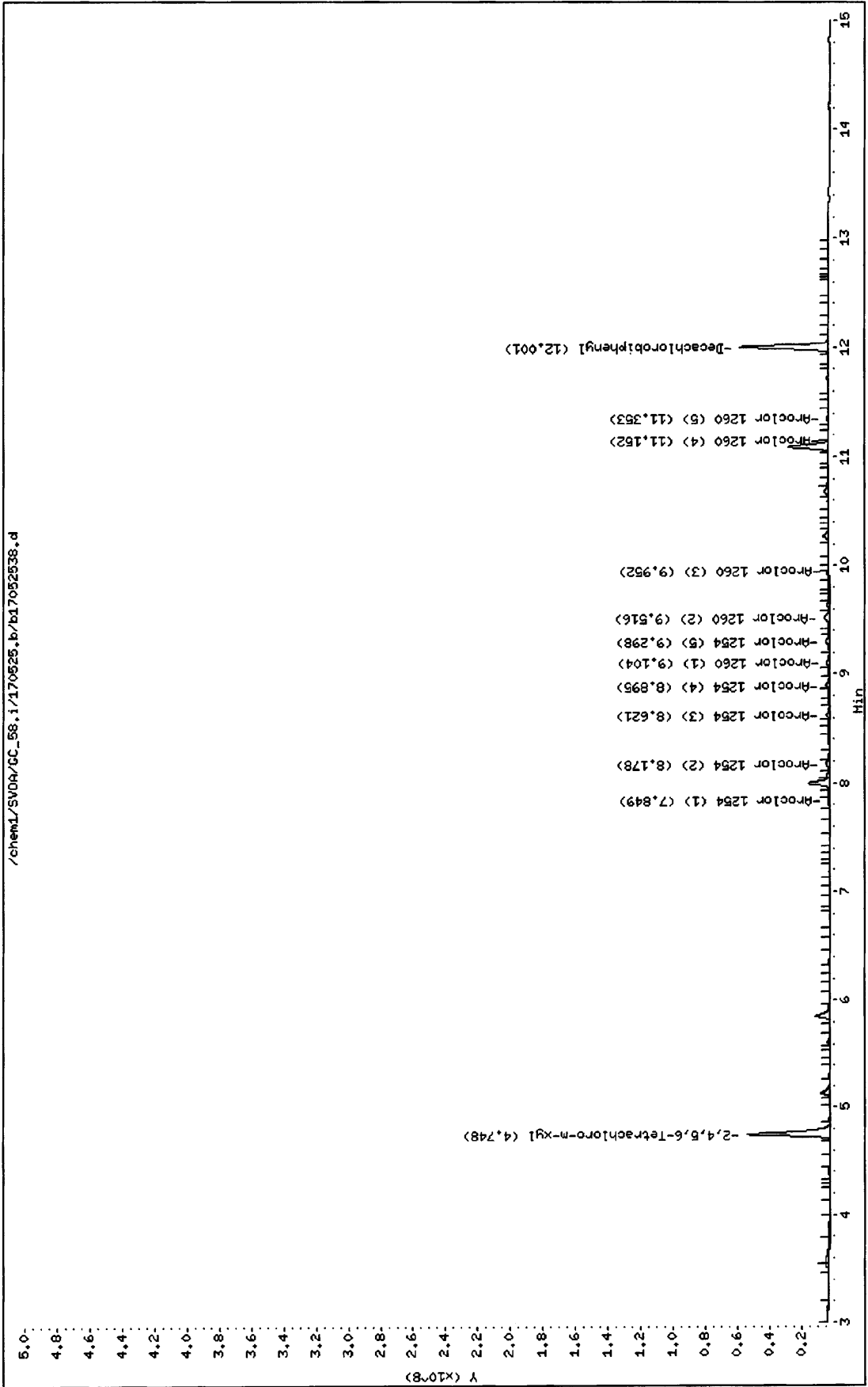
Sample Info: 17-05-1776-8

Instrument: GC\_58.i

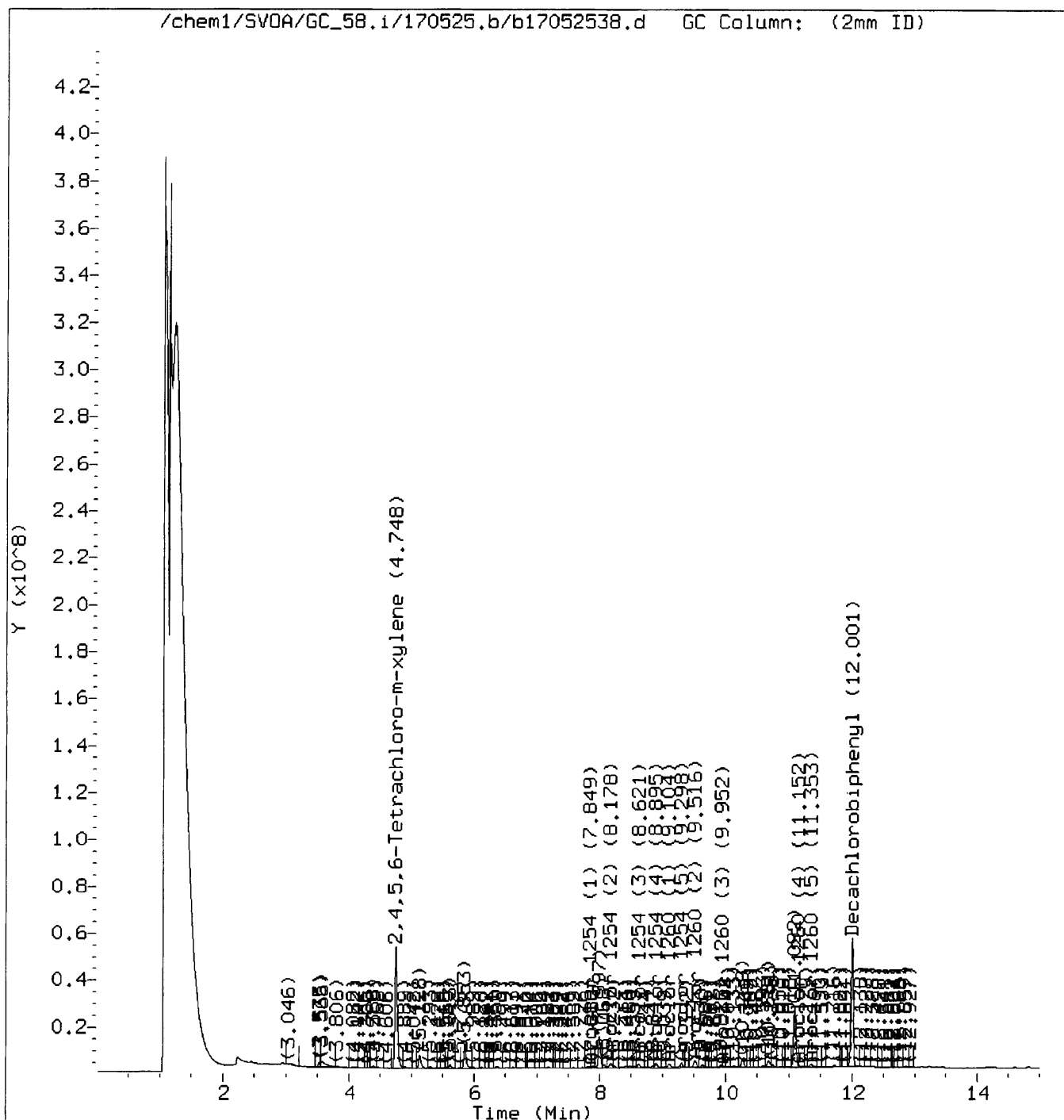
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

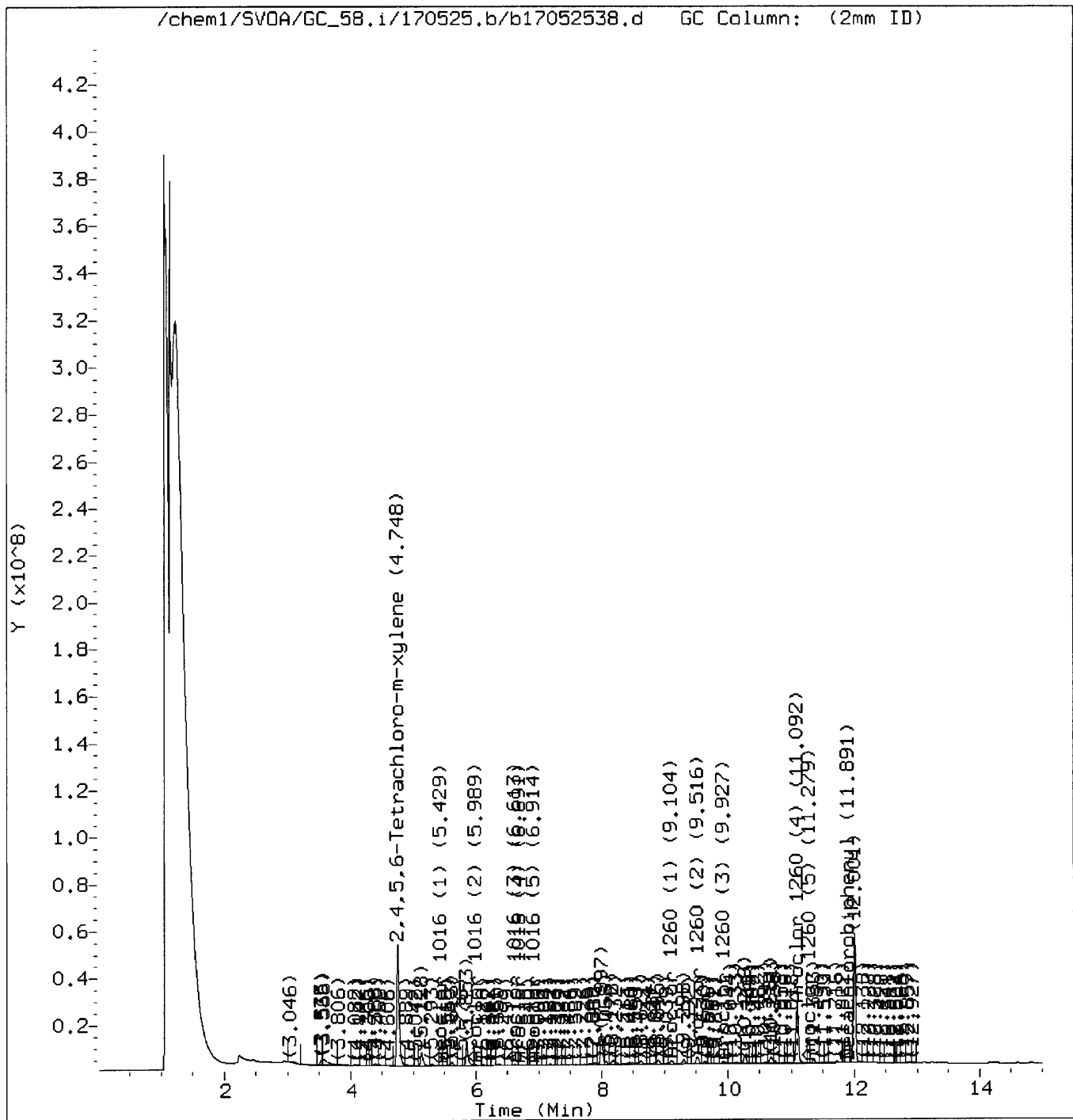
Digitally signed by Karen Lee  
Analyst responsible for change: on 05/26/2017 at 11:02.  
Target 3.5 esignature user ID: src3

*m*

Audit/management approval: \_\_\_\_\_



Original Data File



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 22:14  
**REVIEWED BY:** *m*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705253917052539

**# 9**                      **CLIENT SAMPLE NUMBER: DDP-S009**

**LCS/MB BATCH:** 170523L12                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.00 g  
**MS/MSD BATCH:** 170523S12                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	678	1.00	339	50	
Aroclor-1260	0.000	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

↑  
Return to Contents

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052539.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052539.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 22:14  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-9  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 39  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.744	4.740	0.004	3847139084	60.6951	60.7
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				Compound Not Detected.		
9 Aroclor 1260 (1)				Compound Not Detected.		
10 Aroclor 1260 (2)				Compound Not Detected.		
11 Aroclor 1260 (3)				Compound Not Detected.		
12 Aroclor 1260 (4)				Compound Not Detected.		
13 Aroclor 1260 (5)				Compound Not Detected.		
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052539.d  
 Report Date: 26-May-2017 11:01

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						8837705920	678.447	678
39 Aroclor 1254 (1)	7.830	7.824	0.006		339079493		153.088	153
40 Aroclor 1254 (2)	8.123	8.120	0.003		698046700		602.462	602 (M)
41 Aroclor 1254 (3)	8.592	8.590	0.002		1835187466		477.292	477
42 Aroclor 1254 (4)	8.854	8.859	-0.005		2631021419		960.960	961
43 Aroclor 1254 (5)	9.256	9.262	-0.006		3334370842		1086.15	1090
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	11.918	11.920	-0.002		5039440016		80.7112	80.7

QC Flag Legend

M - Compound response manually integrated.





Data File: /chem1/SV04/GC\_58.i/170525.b/b17052539.d

Date: 25-MAY-2017 22:14

Client ID:

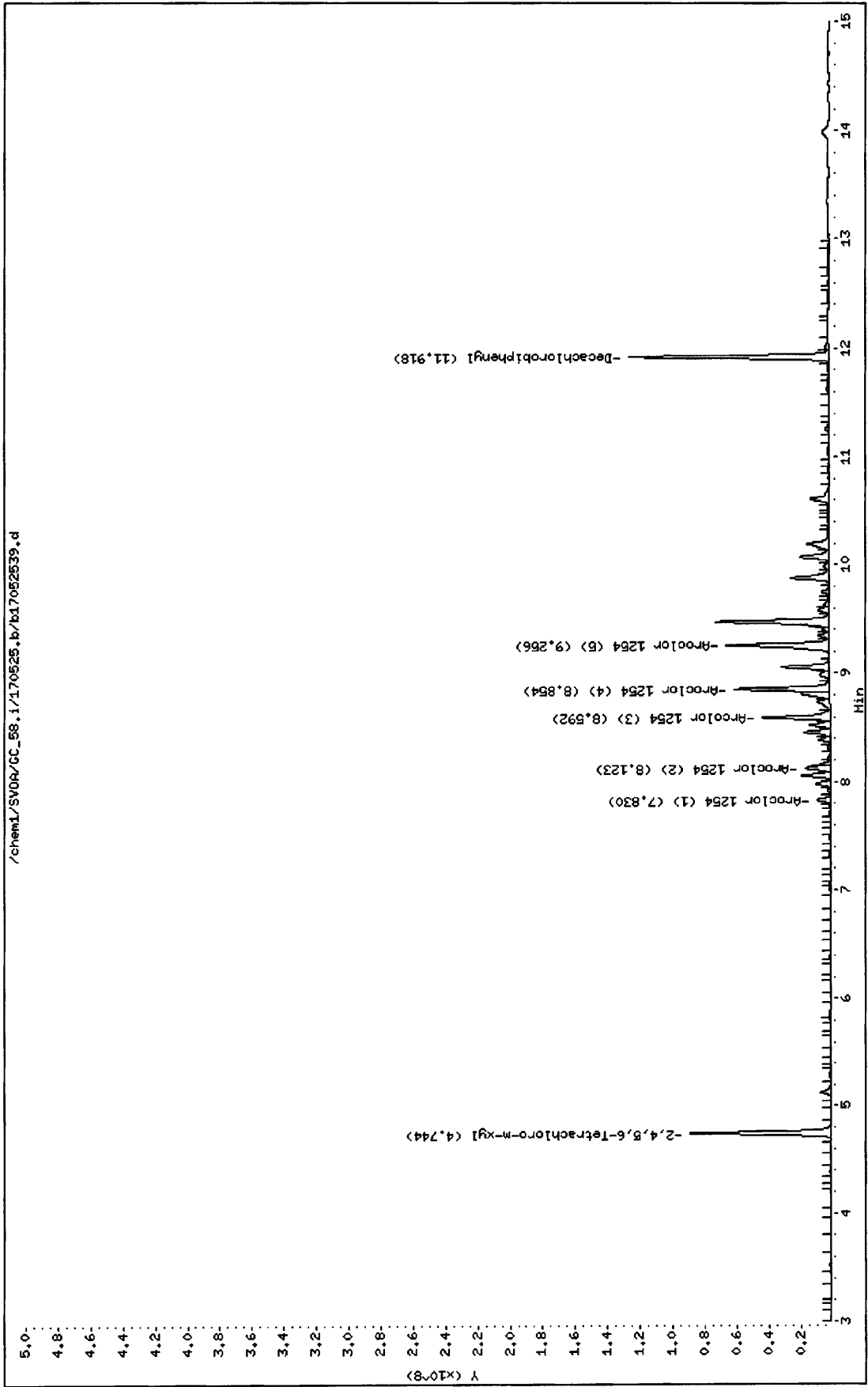
Sample Info: 17-05-1776-9

Instrument: GC\_58.i

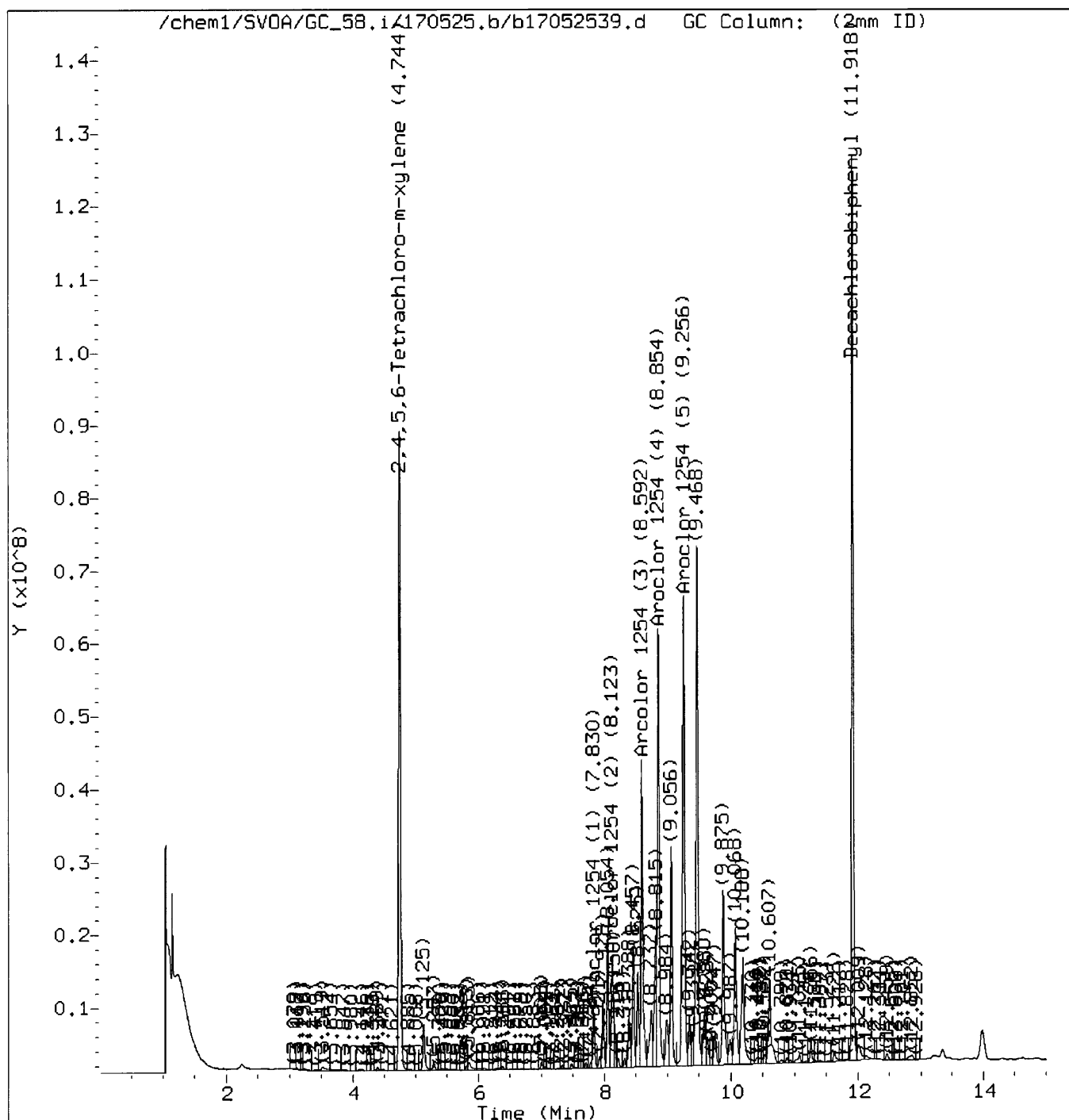
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee

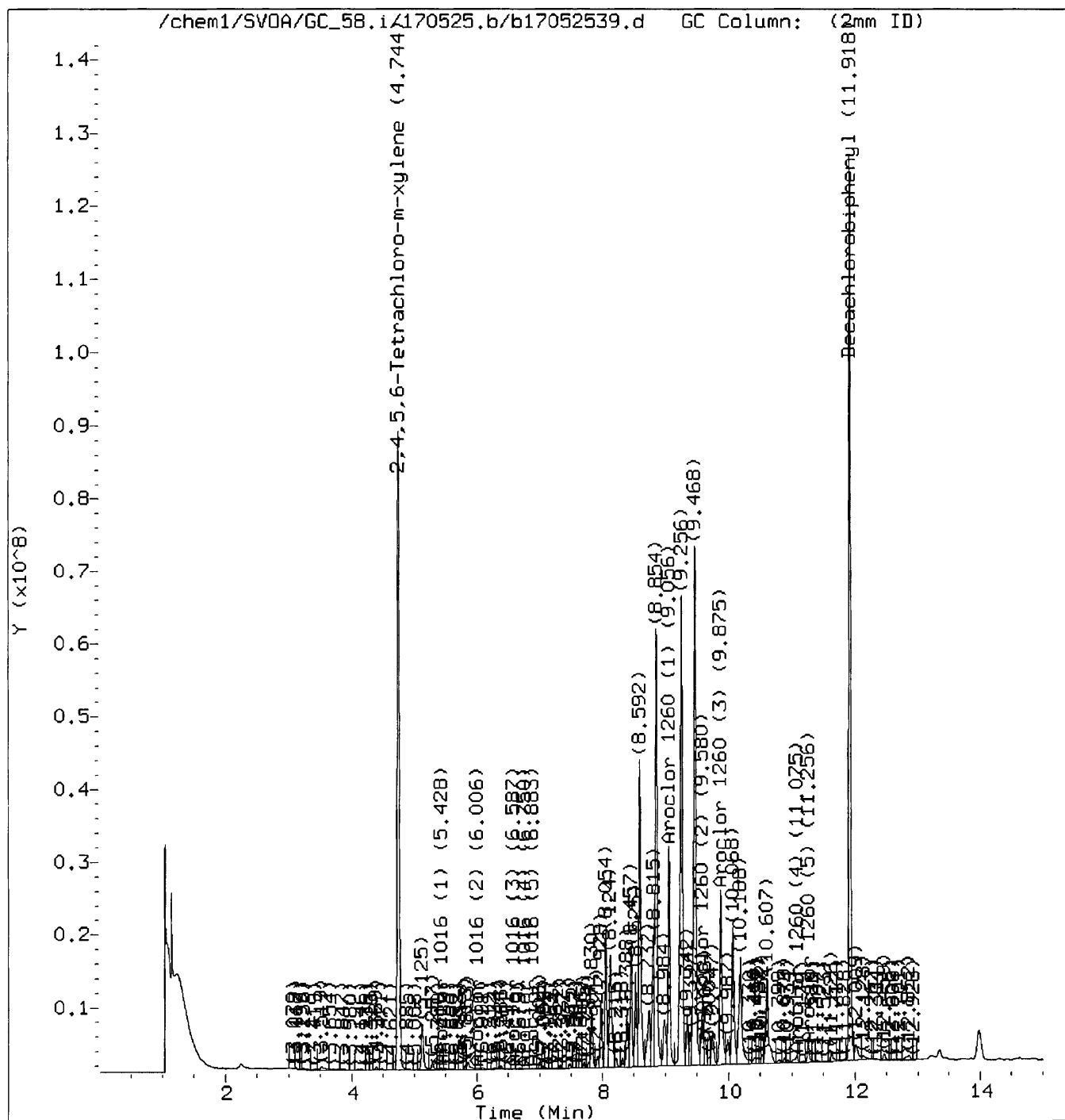
Analyst responsible for change: on 05/26/2017 at 11:02.

Target 3.5 esignature user ID: src3

*M*


Audit/management approval: \_\_\_\_\_

Original Data File



**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-26 16:52  
**REVIEWED BY:**   
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170526/b1705261817052618

**# 10**                      **CLIENT SAMPLE NUMBER: DDP-S010**

**LCS/MB BATCH:** 170523L12                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.10 g  
**MS/MSD BATCH:** 170523S12                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	10.0	ND	500	D
Aroclor-1221	0.000	10.0	ND	500	D
Aroclor-1232	0.000	10.0	ND	500	D
Aroclor-1242	0.000	10.0	ND	500	D
Aroclor-1248	0.000	10.0	ND	500	D
Aroclor-1254	850	10.0	4230	500	D
Aroclor-1260	0.000	10.0	ND	500	D
Aroclor-1262	0.000	10.0	ND	500	D
Aroclor-1268	0.000	10.0	ND	500	D

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Data File: /chem1/SVOA/GC\_58.i/170526.b/b17052618.d  
 Report Date: 26-May-2017 17:21

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170526.b/b17052618.d  
 Lab Smp Id:  
 Inj Date : 26-MAY-2017 16:52  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-10 10X  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170526.b/b8082-n2.m  
 Meth Date : 26-May-2017 16:03 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 18  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.744	4.740	0.004	472621864	7.45640	7.46 (R)
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				Compound Not Detected.		
9 Aroclor 1260 (1)				Compound Not Detected.		
10 Aroclor 1260 (2)				Compound Not Detected.		
11 Aroclor 1260 (3)				Compound Not Detected.		
12 Aroclor 1260 (4)				Compound Not Detected.		
13 Aroclor 1260 (5)				Compound Not Detected.		
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		



Data File: /chem1/SVOA/GC\_58.i/170526.b/b17052618.d  
 Report Date: 26-May-2017 17:21

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							( ppb)	(ug/Kg)
=====	==	=====	=====	=====	=====	=====	=====	=====
22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						11065934080	849.502	850
39 Aroclor 1254 (1)	7.832	7.824	0.008		698072638	315.167	315	
40 Aroclor 1254 (2)	8.123	8.120	0.003		1088751252	939.666	940 (M)	
41 Aroclor 1254 (3)	8.593	8.590	0.003		2418701733	629.052	629	
42 Aroclor 1254 (4)	8.855	8.859	-0.004		3233064130	1180.85	1180	
43 Aroclor 1254 (5)	9.256	9.262	-0.006		3627344326	1181.59	1180	
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	11.917	11.920	-0.003		566659974	9.07558	9.08 (R)	

QC Flag Legend

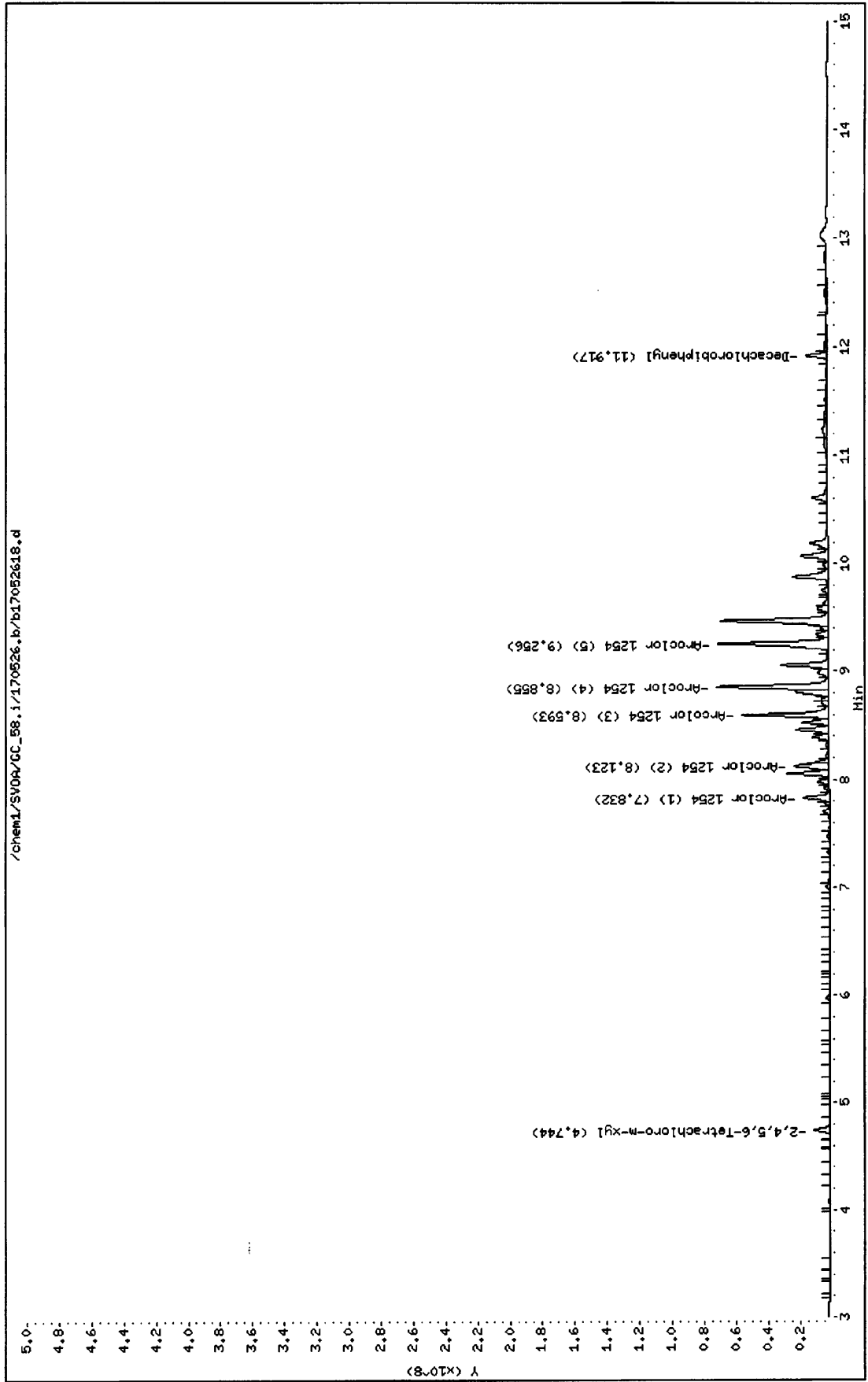
R - Spike/Surrogate failed recovery limits.  
 M - Compound response manually integrated.

Data File: /chem1/SV0A/GC\_58.i/170526.b/b17052618.d  
Date: 26-MAY-2017 16:52  
Client ID:  
Sample Info: 17-05-1776-10 10X

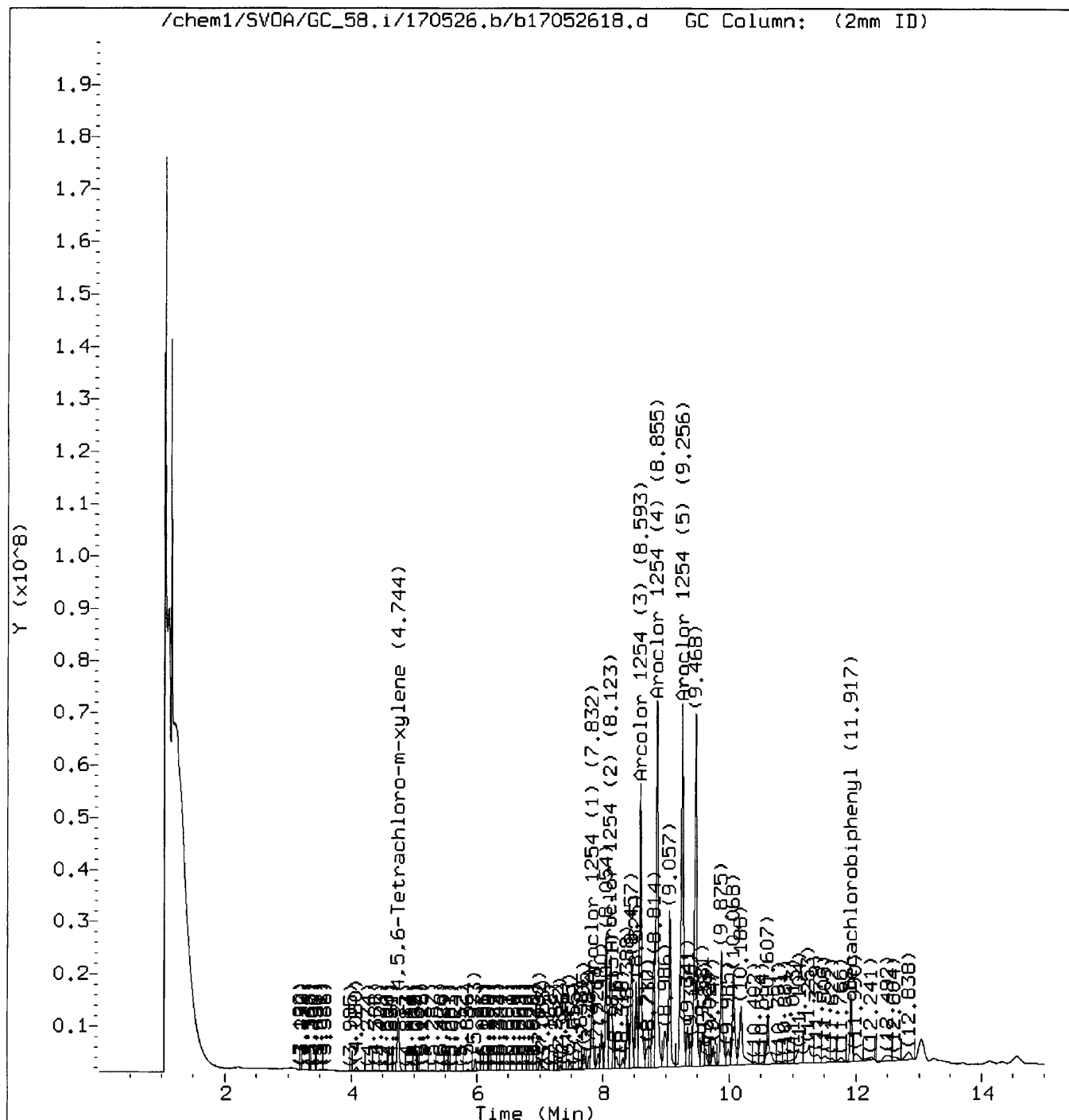
Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00



Manually Integrated Data File



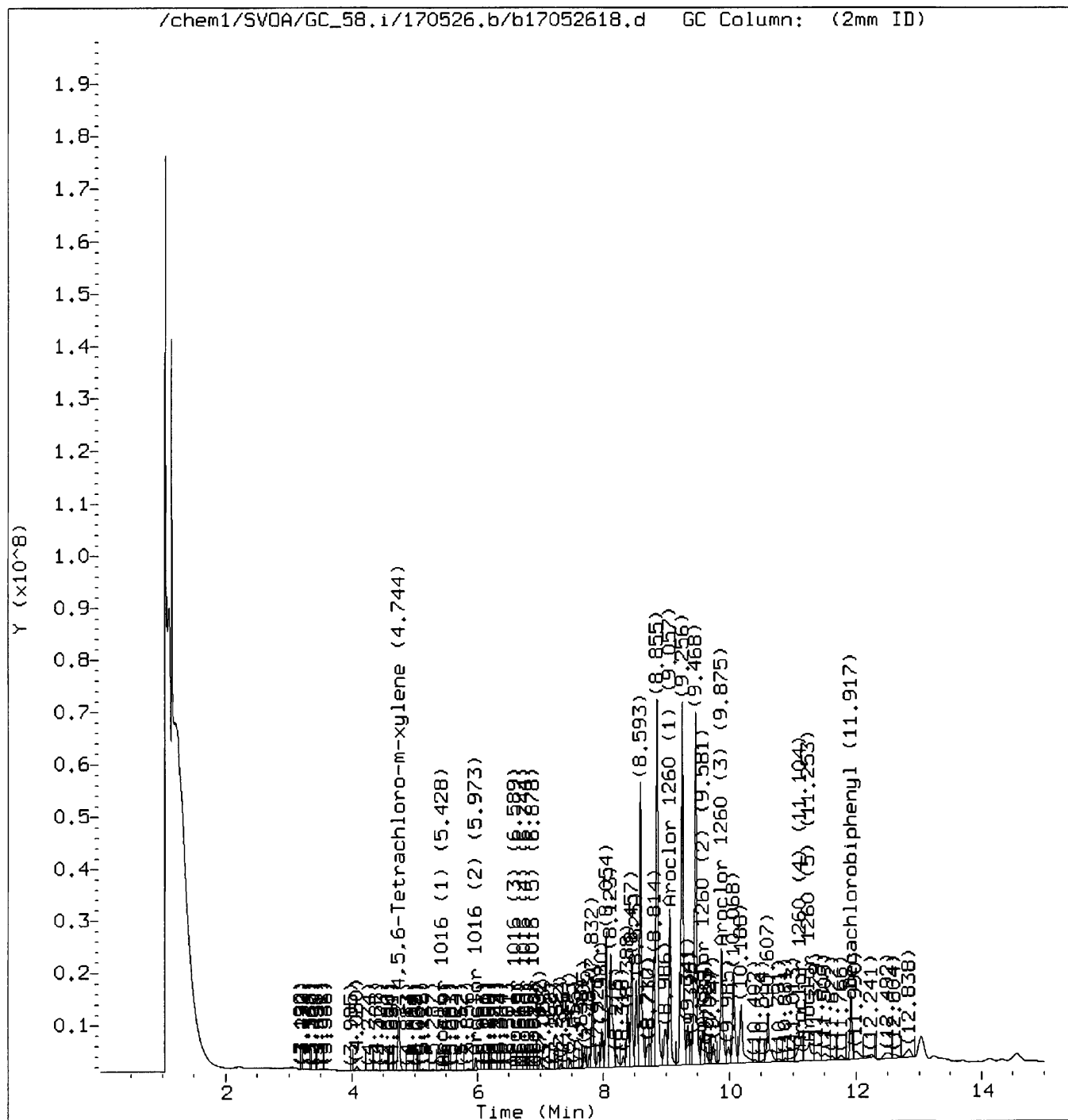
Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee  
 Analyst responsible for change: on 05/26/2017 at 17:22.  
 Target 3.5 esignature user ID: src3

Audit/management approval: \_\_\_\_\_



Original Data File



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052540.d  
 Report Date: 26-May-2017 11:01

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052540.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 22:32  
 Operator : 944  
 Smp Info : 17-05-1776-10  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3  
 Cal Date : 23-MAY-2017 19:33  
 Als bottle: 40  
 Dil Factor: 1.00000  
 Integrator: HP Genie  
 Target Version: 3.50  
 Processing Host: US26TAR4

Inst ID: GC\_58.i

*Ref.*

Compound Sublist: all.sub

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.745	4.740	0.005	4727181127	74.5792	74.6
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				Compound Not Detected.		
9 Aroclor 1260 (1)				Compound Not Detected.		
10 Aroclor 1260 (2)				Compound Not Detected.		
11 Aroclor 1260 (3)				Compound Not Detected.		
12 Aroclor 1260 (4)				Compound Not Detected.		
13 Aroclor 1260 (5)				Compound Not Detected.		
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052540.d  
 Report Date: 26-May-2017 11:01

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				110312177569	8468.37	8470 (A)
39 Aroclor 1254 (1)	7.833	7.824	0.009	6398459840	2888.79	2890 (A)
40 Aroclor 1254 (2)	8.124	8.120	0.004	10054193856	8677.45	8680 (AM)
41 Aroclor 1254 (3)	8.593	8.590	0.003	24140815186	6278.50	6280 (A)
42 Aroclor 1254 (4)	8.855	8.859	-0.004	32292876952	11794.7	11800 (A)
43 Aroclor 1254 (5)	9.257	9.262	-0.005	37425831735	12191.3	12200 (A)
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.919	11.920	-0.001	5328462628	85.3402	85.3



QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

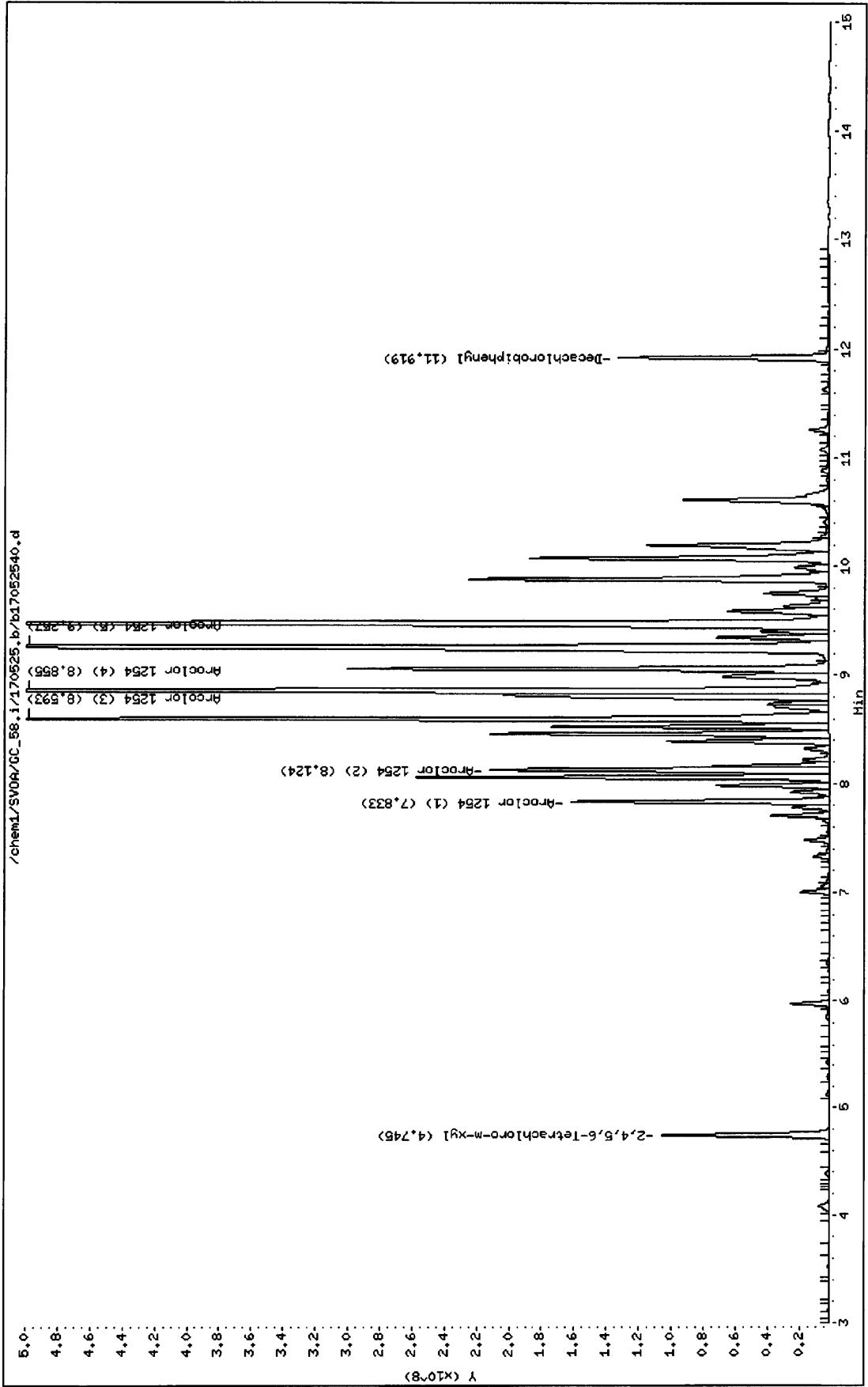
Data File: /chem1/SV00A/GC\_58.i/170525.b/b17052540.d  
Date : 25-MAY-2017 22:32  
Client ID:  
Sample Info: 17-05-1776-10

Instrument: GC\_58.i

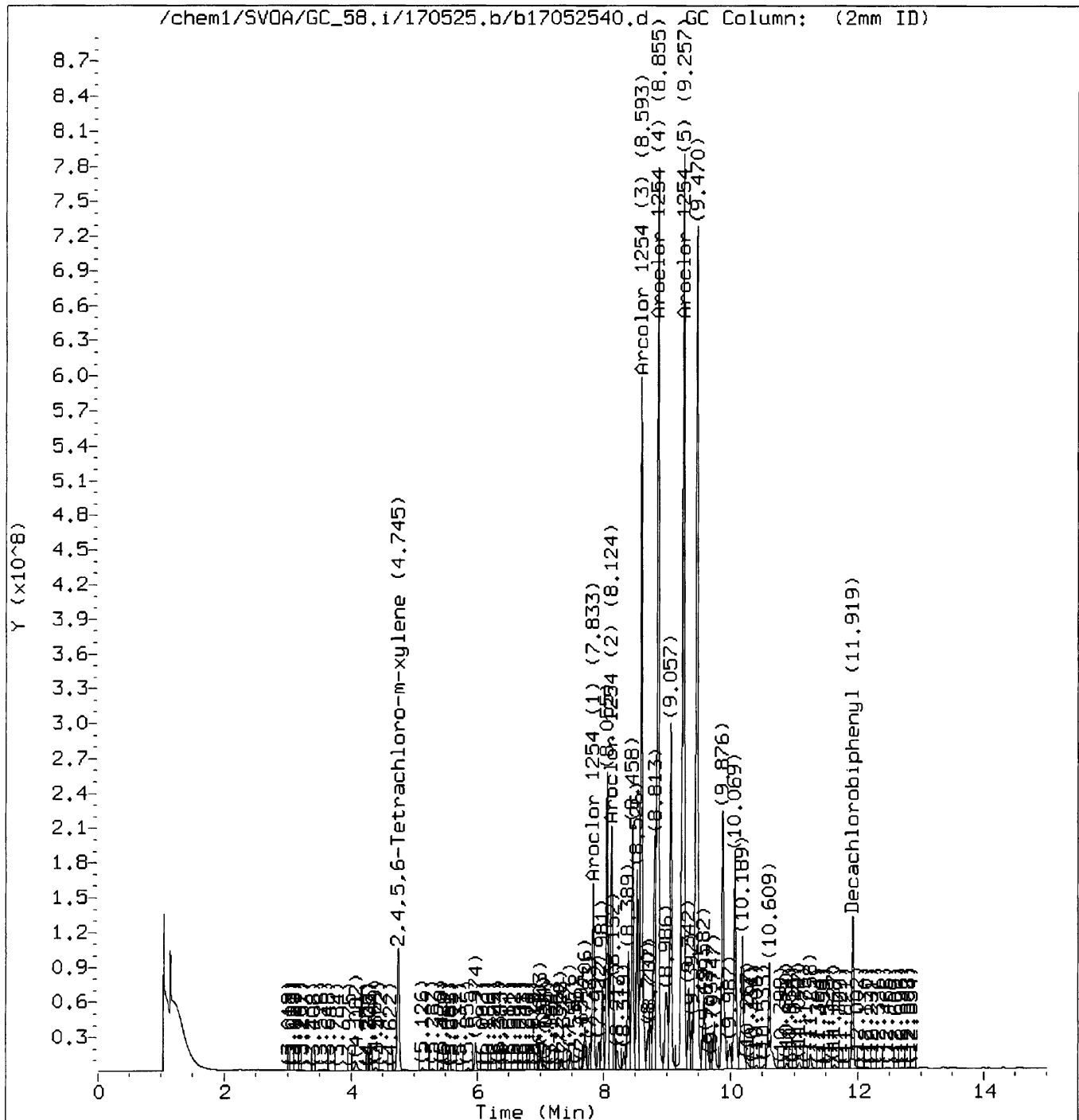
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

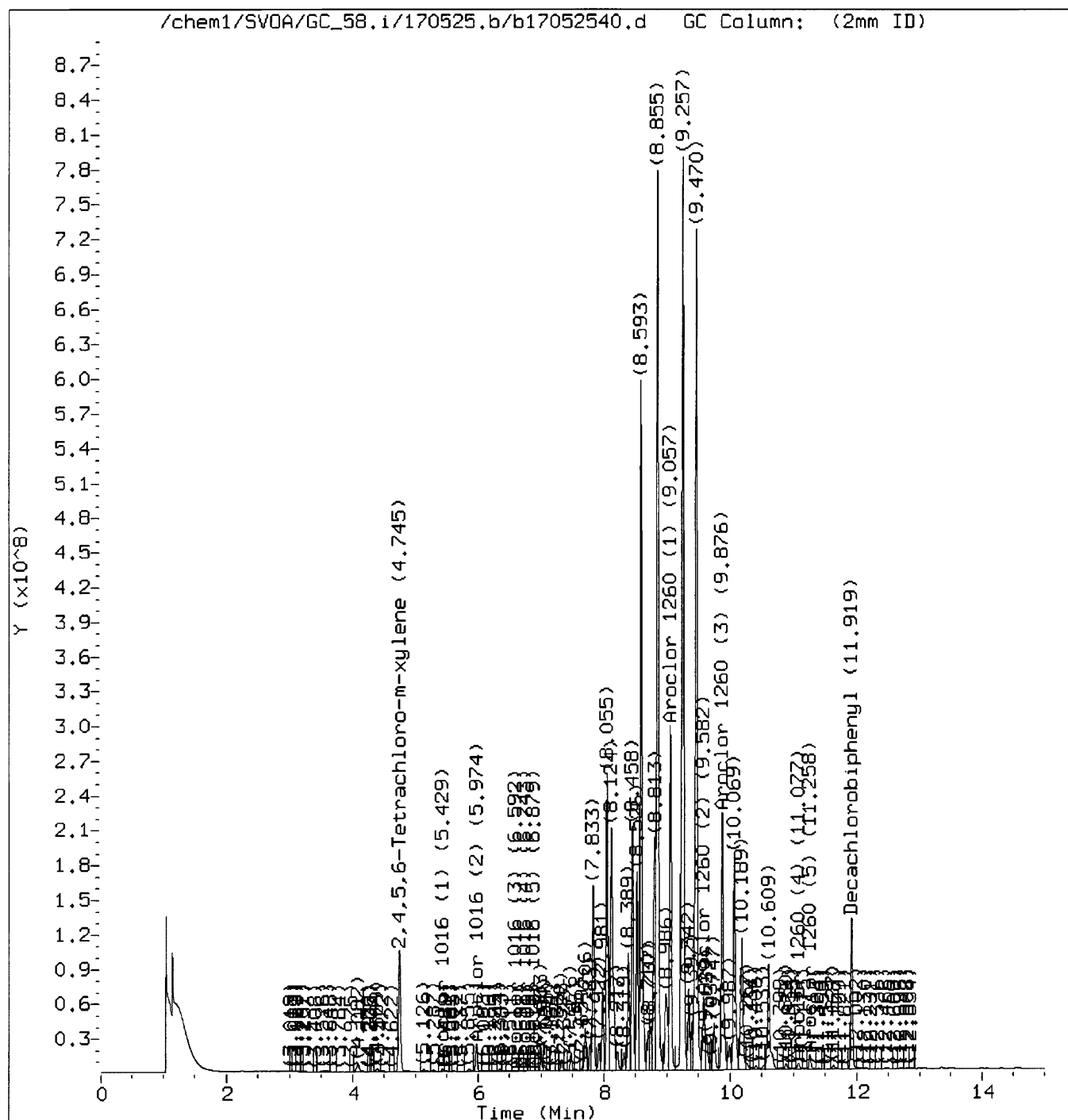
Digitally signed by Karen Lee

Analyst responsible for change: on 05/26/2017 at 11:02.

Target 3.5 esignature user ID: src3

Audit/management approval: \_\_\_\_\_ *u*

Original Data File



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 22:50  
**REVIEWED BY:**  
**D/T REVIEWED:** *M*

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705254117052541

**# 11**                      **CLIENT SAMPLE NUMBER: DDP-S011**

<b>LCS/MB BATCH:</b> 170523L12	<b>SAMPLE VOLUME / WEIGHT:</b> DEFAULT: 20.00 g / ACTUAL: 20.00 g	
<b>MS/MSD BATCH:</b> 170523S12	<b>FINAL VOLUME / WEIGHT:</b> DEFAULT: 10.00 ml / ACTUAL: 10.00 ml	
<b>UNITS:</b> ug/kg	<b>ADJUSTMENT RATIO TO PF:</b> 1.00	

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	55.1	1.00	ND	50	
Aroclor-1260	56.2	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

Return to Contents

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052541.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052541.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 22:50  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-11  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 41  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.749	4.740	0.009	4289068880	67.6672	67.7
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260				648529779	56.2128	56.2 (a)
9 Aroclor 1260 (1)	9.119	9.057	0.062	155742348	45.1427	45.1 (a)
10 Aroclor 1260 (2)	9.646	9.570	0.076	159126995	62.1536	62.2 (a)
11 Aroclor 1260 (3)	9.943	9.908	0.035	155540696	54.2654	54.3 (a)
12 Aroclor 1260 (4)	11.160	11.081	0.079	54201804	66.8860	66.9 (aM)
13 Aroclor 1260 (5)	11.366	11.264	0.102	123917936	66.9764	67.0 (a)
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					





Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052541.d  
 Report Date: 26-May-2017 11:01

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				717445736	55.0764	55.1 (a)
39 Aroclor 1254 (1)	7.855	7.824	0.031	76761579	34.6564	34.6 (a)
40 Aroclor 1254 (2)	8.157	8.120	0.037	30202982	26.0672	26.1 (aM)
41 Aroclor 1254 (3)	8.631	8.590	0.041	164875210	42.8805	42.9 (a)
42 Aroclor 1254 (4)	8.908	8.859	0.049	198099880	72.3545	72.4 (aM)
43 Aroclor 1254 (5)	9.311	9.262	0.049	247506085	80.6238	80.6 (a)
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	12.005	11.920	0.085	3135347415	50.2154	50.2

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.



Data File: /chem1/SV0A/CC\_58.i/170525.b/b17052541.d

Date : 25-MAY-2017 22:50

Client ID:

Sample Info: 17-05-1776-11

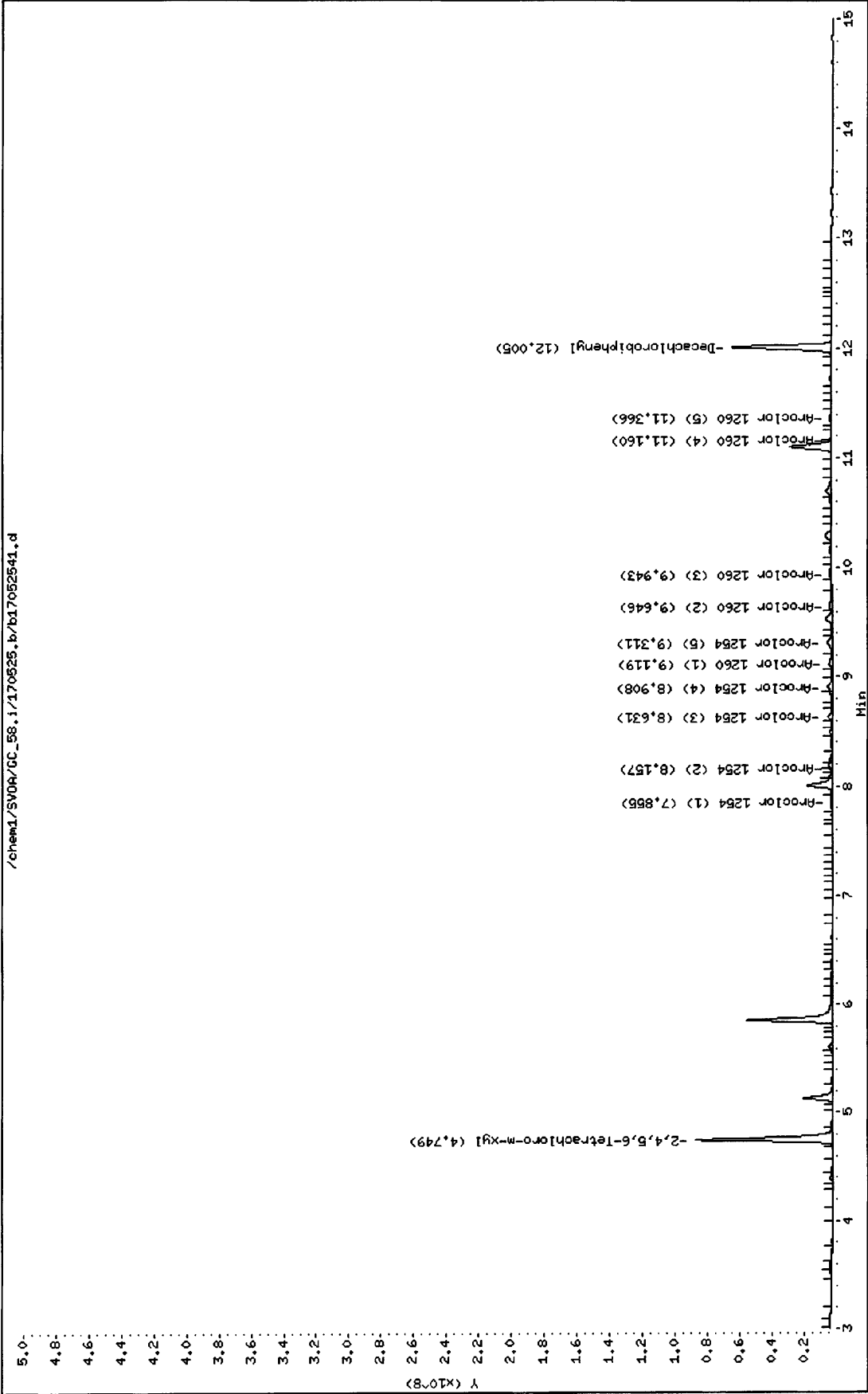
Instrument: GC\_58.i

Operator: 944

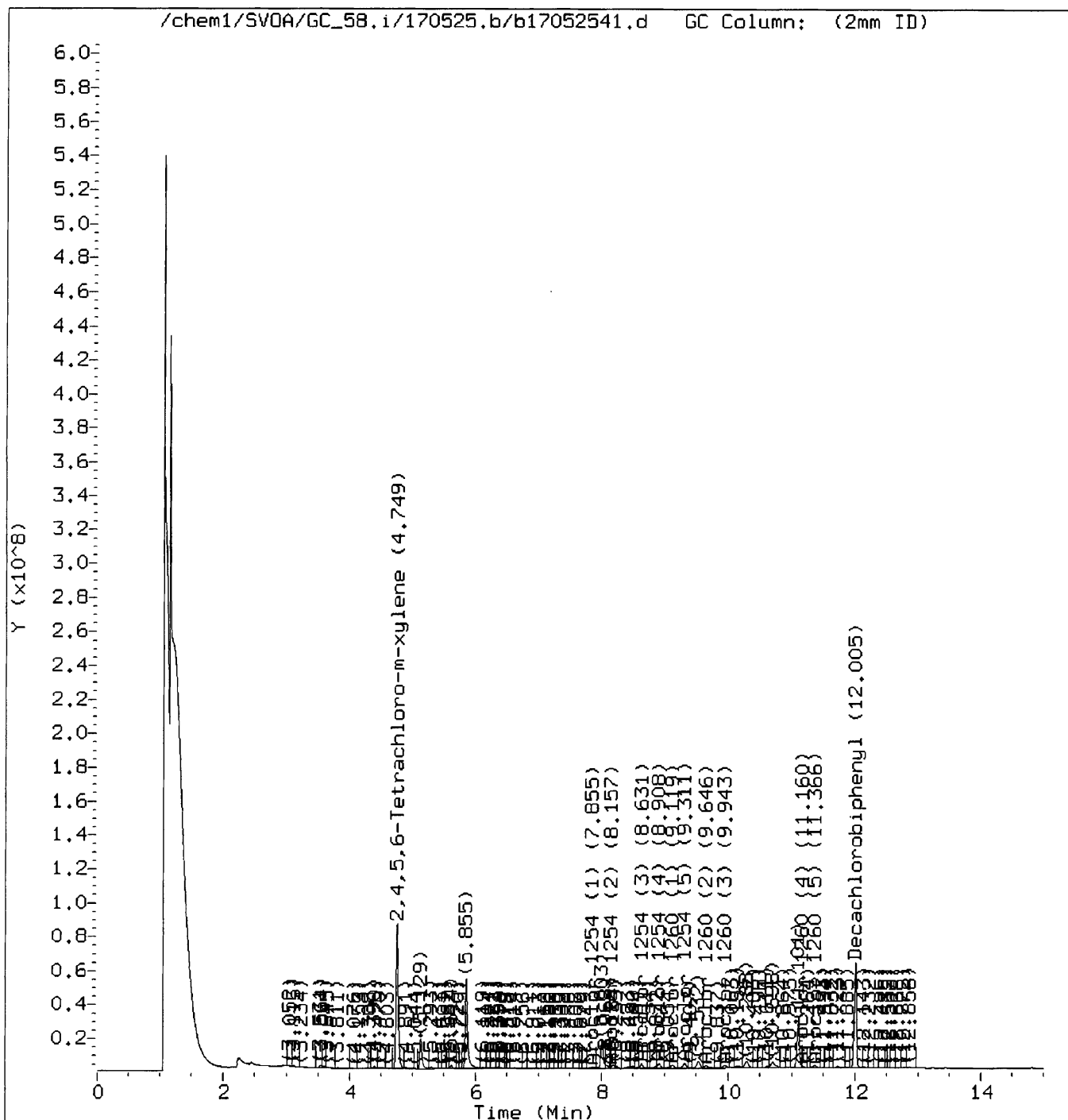
Column diameter: 2.00

Column phase:

/chem1/SV0A/CC\_58.i/170525.b/b17052541.d



Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee

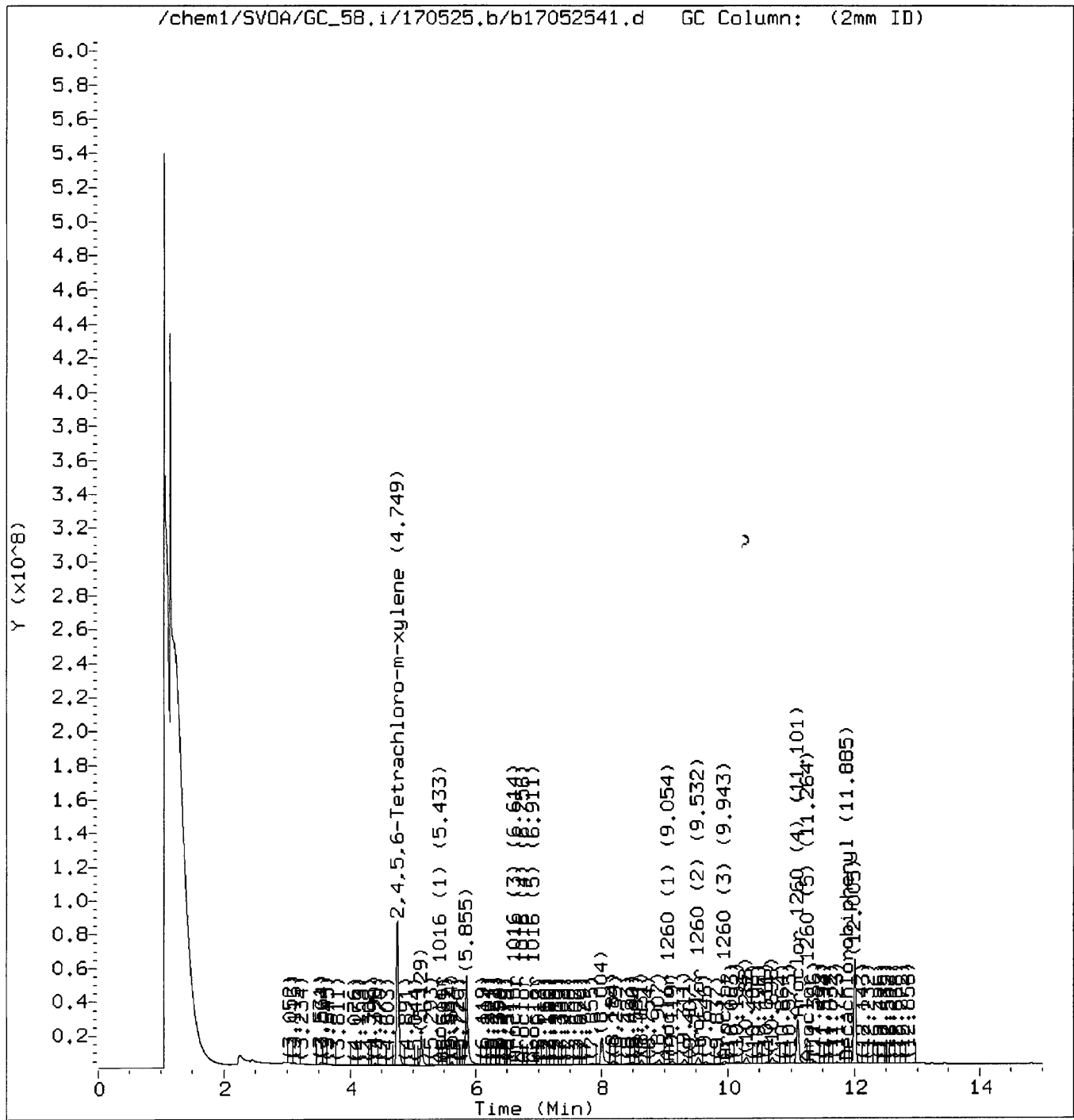
Analyst responsible for change: on 05/26/2017 at 11:02.

Target 3.5 esignature user ID: src3

Audit/management approval: \_\_\_\_\_ *m*



Original Data File



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-26 17:10  
**REVIEWED BY:**  
**D/T REVIEWED:** M

**DATA FILE:** /chem1/SVOA/GC\_58/170526/b1705261917052619

**# 12**                      **CLIENT SAMPLE NUMBER: TP-S001**

**LCS/MB BATCH:** 170523L12                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.00 g  
**MS/MSD BATCH:** 170523S12                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	10.0	ND	500	D
Aroclor-1221	0.000	10.0	ND	500	D
Aroclor-1232	0.000	10.0	ND	500	D
Aroclor-1242	0.000	10.0	ND	500	D
Aroclor-1248	0.000	10.0	ND	500	D
Aroclor-1254	437	10.0	2180	500	D
Aroclor-1260	339	10.0	1700	500	D
Aroclor-1262	0.000	10.0	ND	500	D
Aroclor-1268	0.000	10.0	ND	500	D



Data File: /chem1/SVOA/GC\_58.i/170526.b/b17052619.d  
 Report Date: 26-May-2017 17:37

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170526.b/b17052619.d  
 Lab Smp Id:  
 Inj Date : 26-MAY-2017 17:10  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-12 10X  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170526.b/b8082-n2.m  
 Meth Date : 26-May-2017 16:03 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 19  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.745	4.740	0.005		324463403	5.11895	5.12 (R)
M 2 Aroclor-1016					Compound Not Detected.		
3 Aroclor 1016 (1)					Compound Not Detected.		
4 Aroclor 1016 (2)					Compound Not Detected.		
5 Aroclor 1016 (3)					Compound Not Detected.		
6 Aroclor 1016 (4)					Compound Not Detected.		
7 Aroclor 1016 (5)					Compound Not Detected.		
M 8 Aroclor-1260					3911768081	339.061	339
9 Aroclor 1260 (1)	9.057	9.057	0.000		1846963067	535.352	535
10 Aroclor 1260 (2)	9.570	9.570	0.000		920505864	359.541	360
11 Aroclor 1260 (3)	9.899	9.908	-0.009		438236251	152.893	153 (M)
12 Aroclor 1260 (4)	11.076	11.081	-0.005		169203424	208.800	209
13 Aroclor 1260 (5)	11.256	11.263	-0.007		536859475	290.167	290
M 14 Aroclor-1221					Compound Not Detected.		
15 Aroclor 1221 (1)					Compound Not Detected.		
16 Aroclor 1221 (2)					Compound Not Detected.		
17 Aroclor 1221 (3)					Compound Not Detected.		
18 Aroclor 1221 (4)					Compound Not Detected.		
19 Aroclor 1221 (5)					Compound Not Detected.		
M 20 Aroclor-1232					Compound Not Detected.		
21 Aroclor 1232 (1)					Compound Not Detected.		

Data File: /chem1/SVOA/GC\_58.i/170526.b/b17052619.d  
 Report Date: 26-May-2017 17:37

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						5693376926	437.065	437
39 Aroclor 1254 (1)	7.831	7.824	0.007		130102636	58.7389	58.7	(a)
40 Aroclor 1254 (2)	8.124	8.120	0.004		134080442	115.721	116	
41 Aroclor 1254 (3)	8.592	8.590	0.002		884667437	230.083	230	
42 Aroclor 1254 (4)	8.855	8.859	-0.004		1950977873	712.580	712	
43 Aroclor 1254 (5)	9.257	9.262	-0.005		2593548538	844.835	845	
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	11.917	11.920	-0.003		361752050	5.79379	5.79	(R)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation (BLOQ).
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: /chem1/SV00A/GC\_58.i/170526.b/b17052619.d

Date : 26-MAY-2017 17:10

Client ID:

Sample Info: 17-06-1776-12 10X

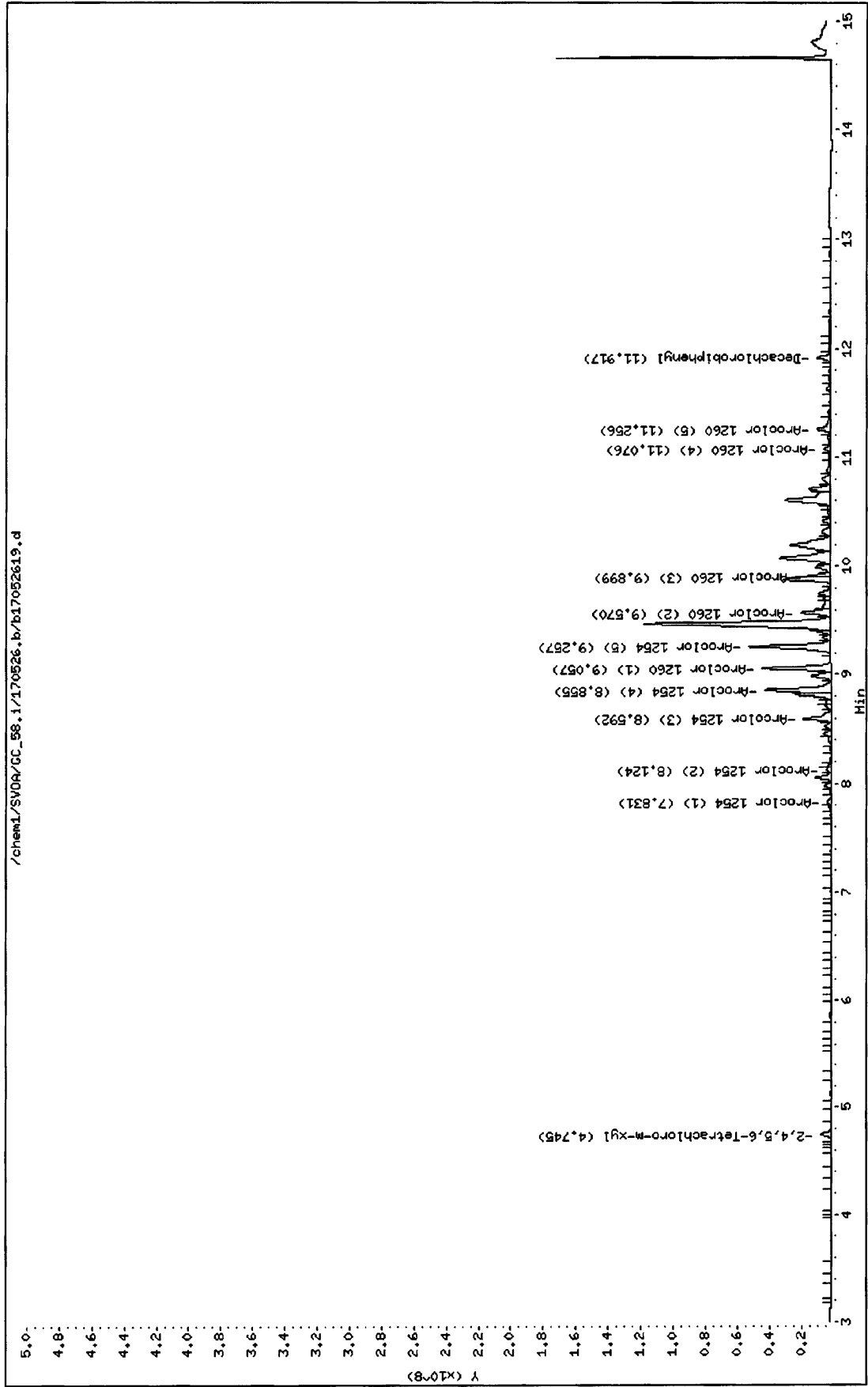
Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

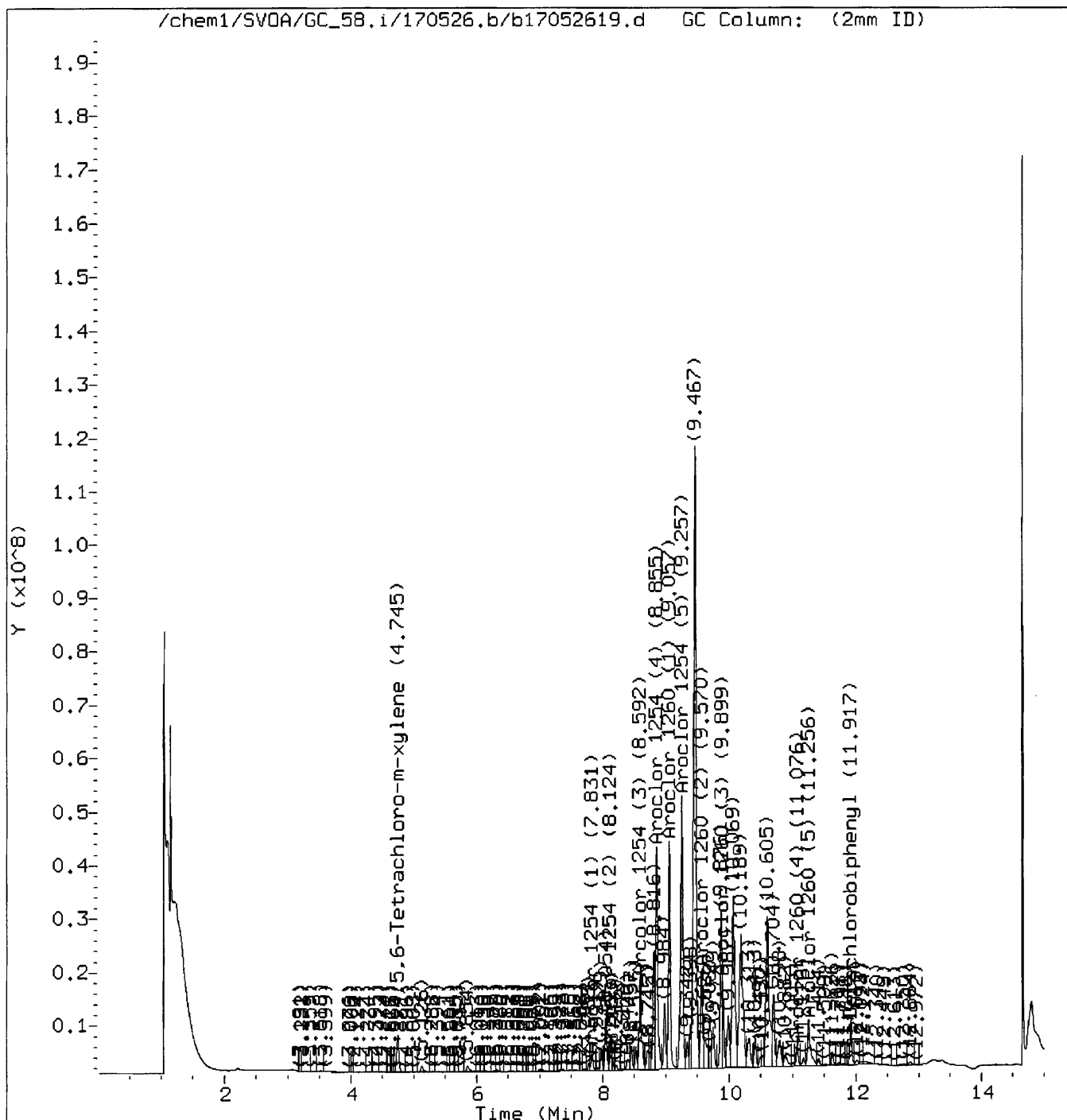
Column phase:

/chem1/SV00A/GC\_58.i/170526.b/b17052619.d





Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

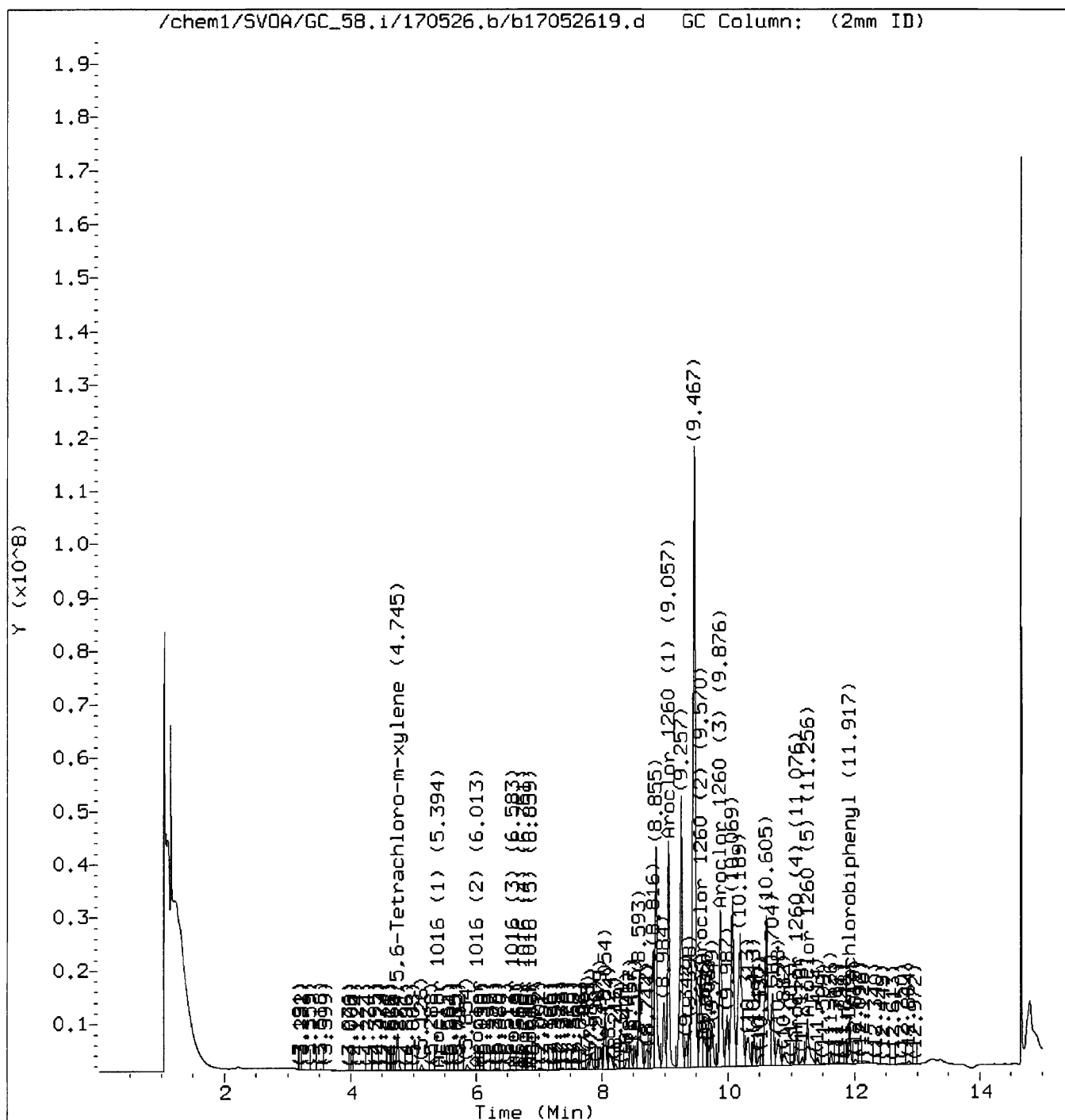
Digitally signed by Karen Lee

Analyst responsible for change: on 05/26/2017 at 17:37.

Target 3.5 esignature user ID: src3

Audit/management approval: \_\_\_\_\_ *m*

Original Data File



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052542.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052542.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 23:07  
 Operator : 944  
 Smp Info : 17-05-1776-12  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3  
 Cal Date : 23-MAY-2017 19:33  
 Als bottle: 42  
 Dil Factor: 1.00000  
 Integrator: HP Genie  
 Target Version: 3.50  
 Processing Host: US26TAR4

Inst ID: GC\_58.i

Compound Sublist: all.sub

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.744	4.740	0.004	3181307181	50.1904	50.2
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260				35856729304	3107.96	3110 (A)
9 Aroclor 1260 (1)	9.056	9.057	-0.001	16562753071	4800.80	4800 (A)
10 Aroclor 1260 (2)	9.570	9.570	0.000	8292292703	3238.89	3240 (A)
11 Aroclor 1260 (3)	9.898	9.908	-0.010	3765810501	1313.82	1310 (M)
12 Aroclor 1260 (4)	11.075	11.081	-0.006	2077894822	2564.16	2560 (A)
13 Aroclor 1260 (5)	11.256	11.264	-0.008	5157978208	2787.84	2790 (A)
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052542.d  
 Report Date: 26-May-2017 11:01

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				53060953106	4073.35	4070 (A)
39 Aroclor 1254 (1)	7.831	7.824	0.007	870171859	392.866	393
40 Aroclor 1254 (2)	8.124	8.120	0.004	978902186	844.859	845
41 Aroclor 1254 (3)	8.592	8.590	0.002	7934579898	2063.61	2060 (A)
42 Aroclor 1254 (4)	8.854	8.859	-0.005	17942597189	6553.40	6550 (A)
43 Aroclor 1254 (5)	9.255	9.262	-0.007	25334701973	8252.65	8250 (A)
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.918	11.920	-0.002	3501204026	56.0750	56.1

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

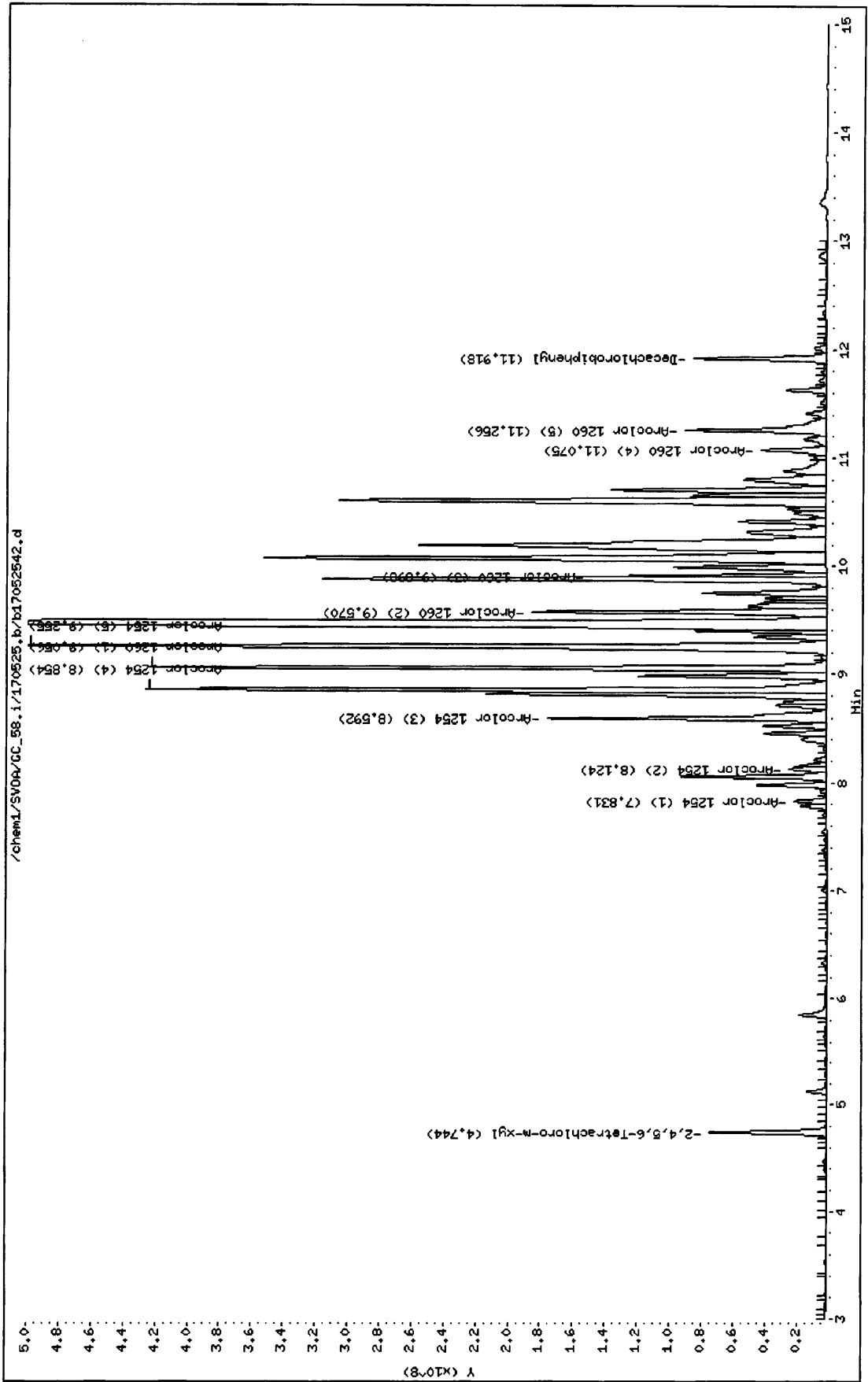
Data File: /chem1/SV04/CC\_58.i/170525.b/b17052542.d  
Date : 25-MAY-2017 23:07  
Client ID:  
Sample Info: 17-05-1776-12

Instrument: GC\_58.i

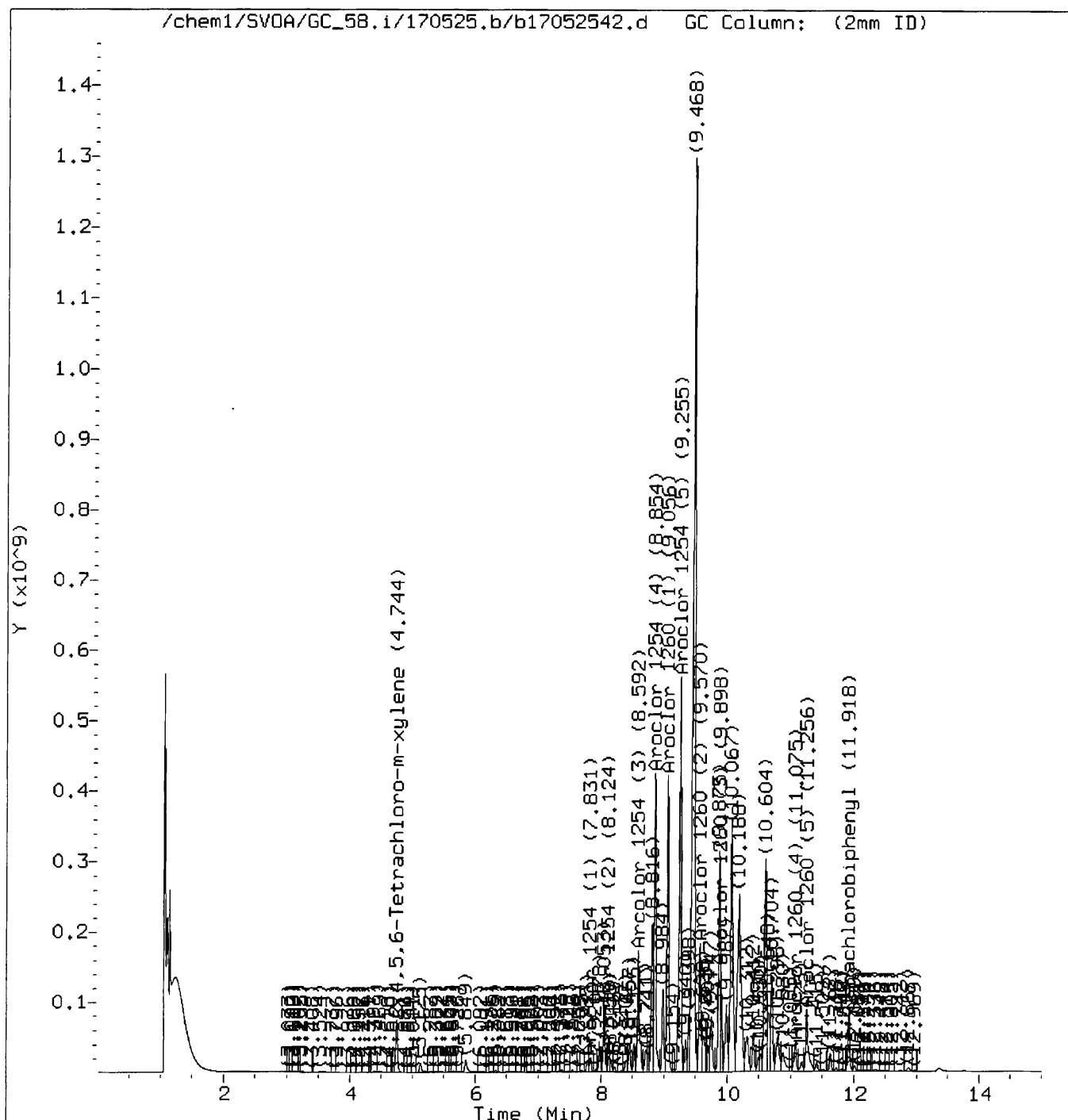
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee

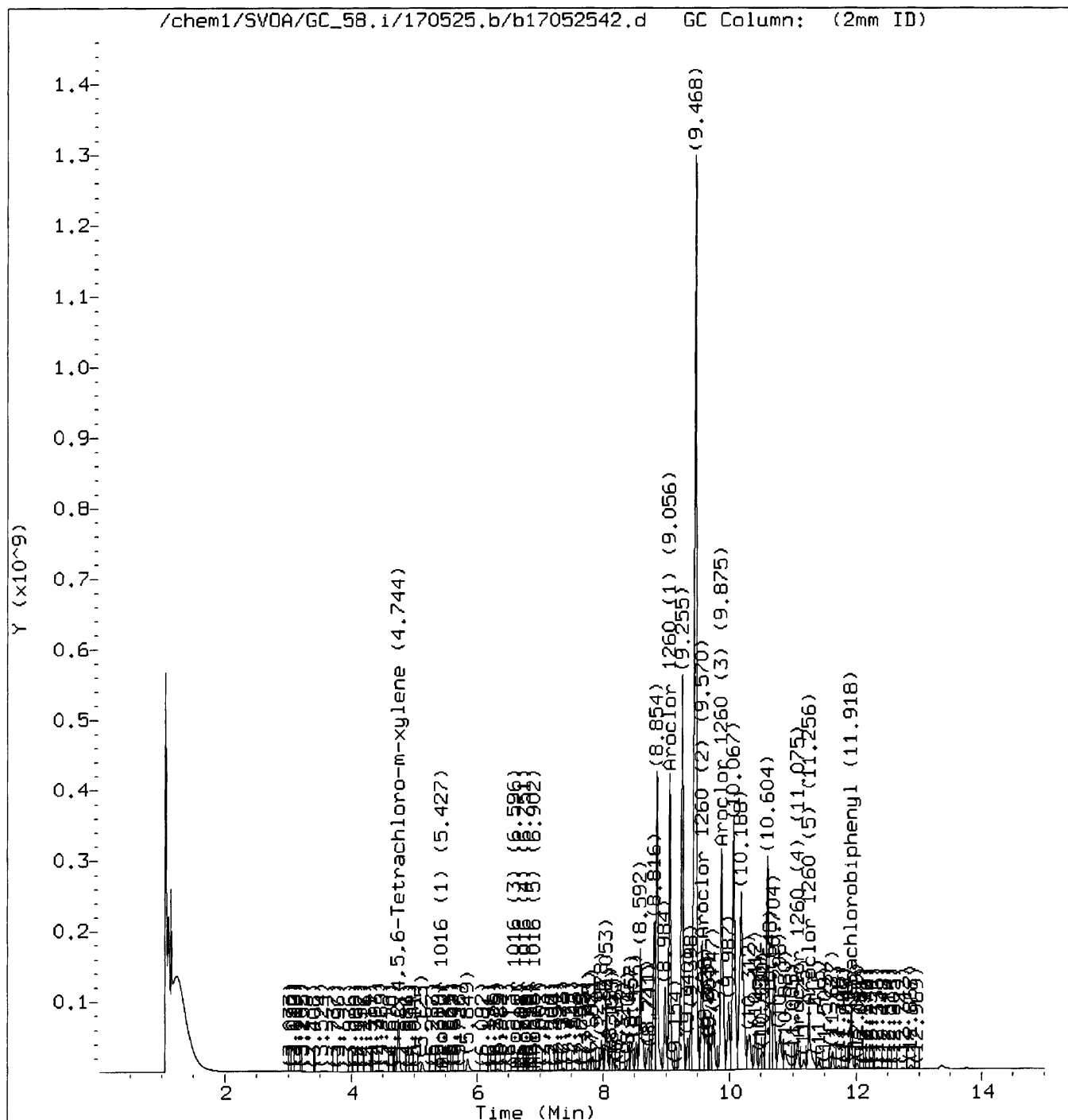
Analyst responsible for change: on 05/26/2017 at 11:02.

Target 3.5 esignature user ID: src3

Audit/management approval: \_\_\_\_\_

3

Original Data File



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 23:25  
**REVIEWED BY:**  
**D/T REVIEWED:** *~*

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705254317052543

**# 13**                      **CLIENT SAMPLE NUMBER: TP-S002**

**LCS/MB BATCH:** 170523L12                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.00 g  
**MS/MSD BATCH:** 170523S12                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	1280	1.00	640	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052543.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052543.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 23:25  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-13  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 43  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.750	4.740	0.010	4306249245	67.9383	67.9
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				14730674936	1276.81	1280
9 Aroclor 1260 (1)	9.084	9.057	0.027	1690307165	489.944	490
10 Aroclor 1260 (2)	9.592	9.570	0.022	3206328219	1252.36	1250
11 Aroclor 1260 (3)	9.923	9.908	0.015	3027714303	1056.32	1060 (M)
12 Aroclor 1260 (4)	11.088	11.081	0.007	2354929708	2906.03	2910 (A)
13 Aroclor 1260 (5)	11.268	11.264	0.004	4451395540	2405.94	2400 (A)
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052543.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
===== 22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						Compound Not Detected.		
39 Aroclor 1254 (1)						Compound Not Detected.		
40 Aroclor 1254 (2)						Compound Not Detected.		
41 Aroclor 1254 (3)						Compound Not Detected.		
42 Aroclor 1254 (4)						Compound Not Detected.		
43 Aroclor 1254 (5)						Compound Not Detected.		
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	11.926	11.920	0.006	6349673859	101.696	102		

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.



Data File: /chem1/SV04/DC\_58.i/170525.b/b17052543.d

Date: 25-MAY-2017 23:25

Client ID:

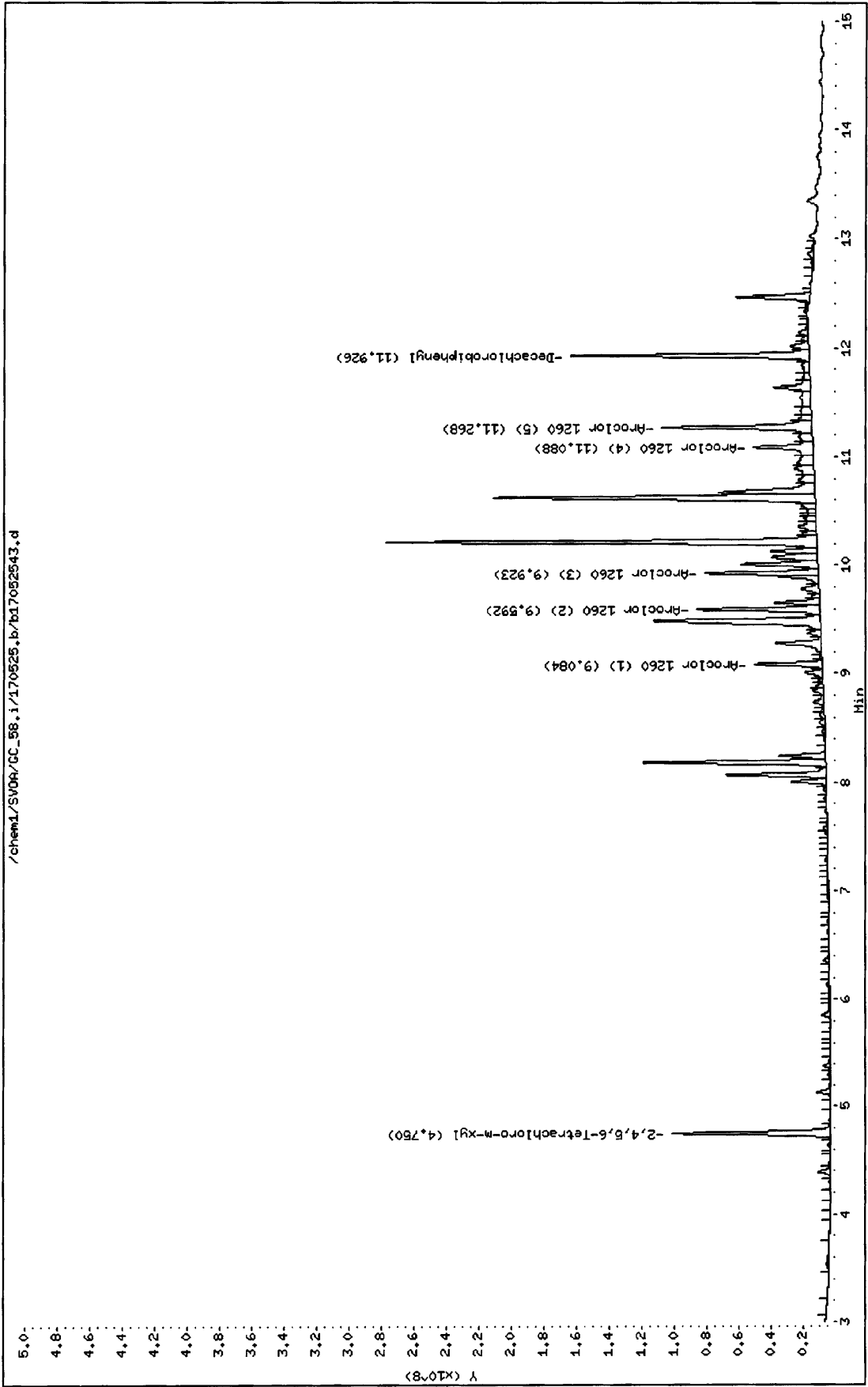
Sample Info: 17-05-1776-13

Instrument: GC\_58.i

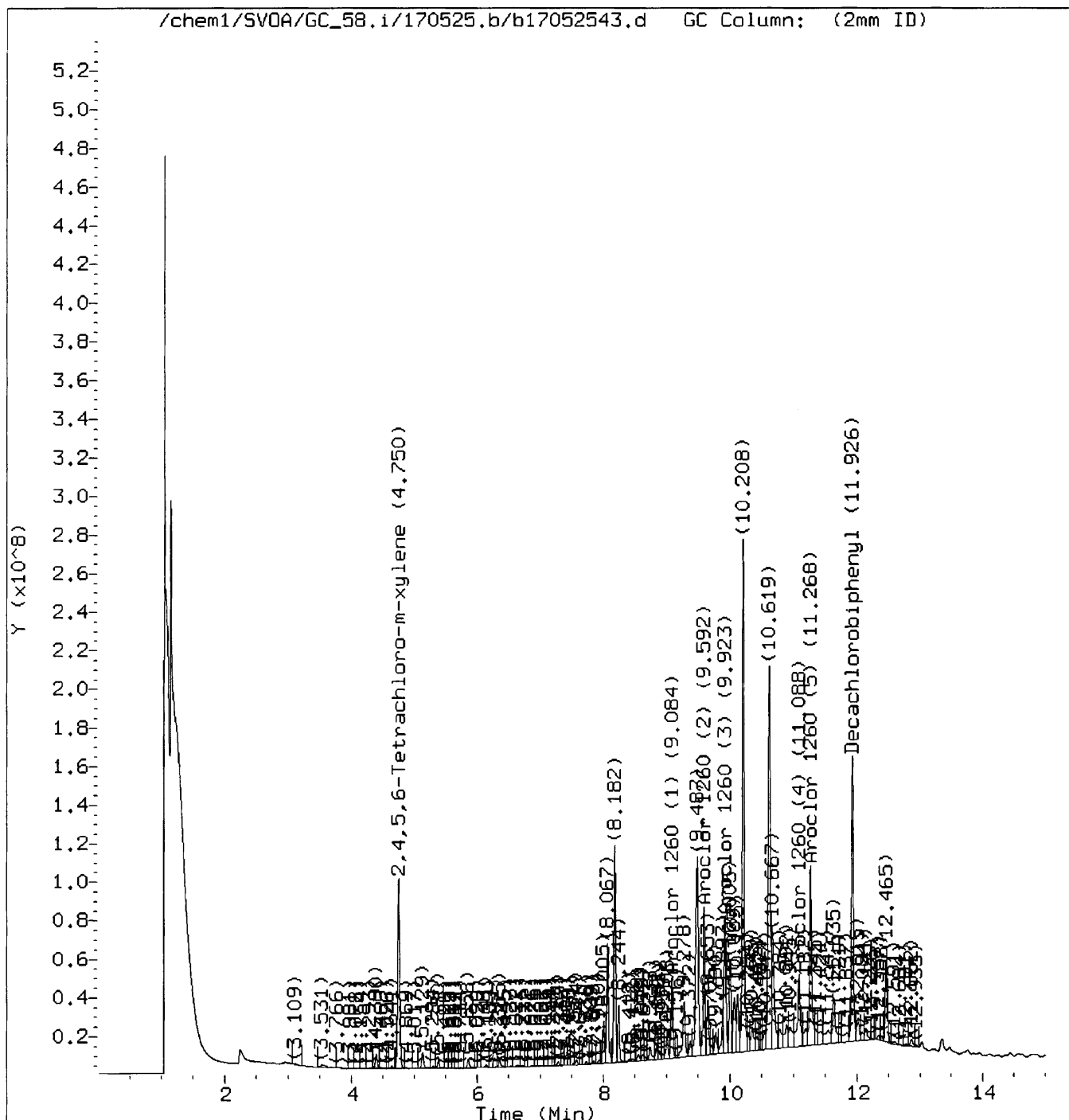
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



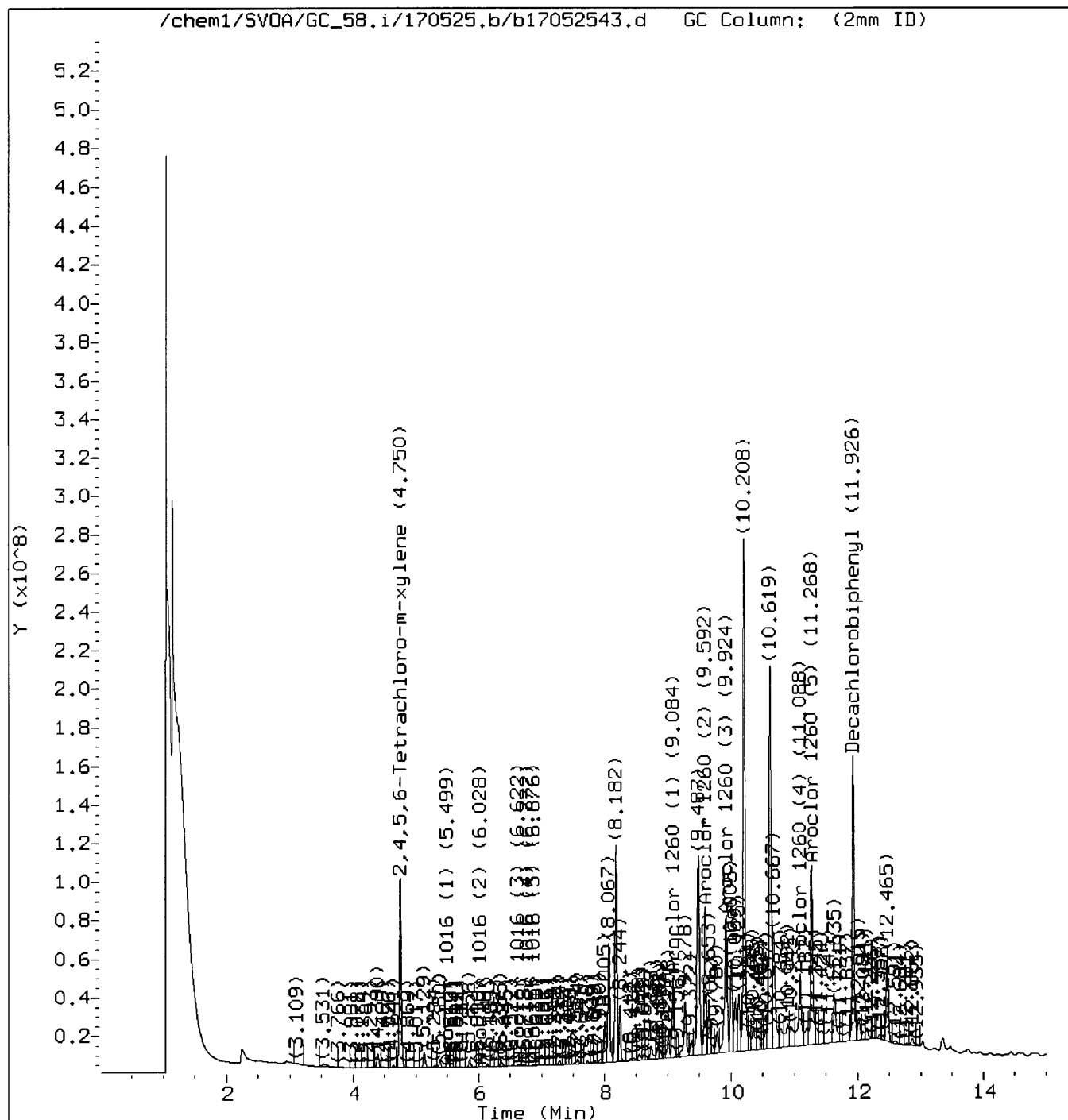
Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee  
 Analyst responsible for change: on 05/26/2017 at 11:02.  
 Target 3.5 esignature user ID: src3

Audit/management approval: \_\_\_\_\_



Original Data File



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 23:43  
**REVIEWED BY:**  
**D/T REVIEWED:** *m*

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705254417052544

**# 14**                      **CLIENT SAMPLE NUMBER: TP-S003**

<b>LCS/MB BATCH:</b> 170523L12	<b>SAMPLE VOLUME / WEIGHT:</b> DEFAULT: 20.00 g / ACTUAL: 20.20 g
<b>MS/MSD BATCH:</b> 170523S12	<b>FINAL VOLUME / WEIGHT:</b> DEFAULT: 10.00 ml / ACTUAL: 10.00 ml
<b>UNITS:</b> ug/kg	<b>ADJUSTMENT RATIO TO PF:</b> 0.99

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	187	1.00	92.6	50	
Aroclor-1260	574	1.00	284	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052544.d  
 Report Date: 26-May-2017 11:01

Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052544.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 23:43  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-14  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 44  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.748	4.740	0.008	3798693732	59.9307	59.9
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260				6625828382	574.309	574
9 Aroclor 1260 (1)	9.070	9.057	0.013	949429948	275.197	275
10 Aroclor 1260 (2)	9.580	9.570	0.010	1457911435	569.447	569
11 Aroclor 1260 (3)	9.914	9.908	0.006	1326333447	462.734	463 (M)
12 Aroclor 1260 (4)	11.084	11.081	0.003	956911076	1180.85	1180
13 Aroclor 1260 (5)	11.264	11.264	0.000	1935242476	1045.98	1040
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052544.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
===== 22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				2440379267	187.341	187
39 Aroclor 1254 (1)	7.839	7.824	0.015	68101273	30.7465	30.7 (a)
40 Aroclor 1254 (2)	8.146	8.120	0.026	108427494	93.5803	93.6 (aM)
41 Aroclor 1254 (3)	8.604	8.590	0.014	425551122	110.677	111
42 Aroclor 1254 (4)	8.867	8.859	0.008	585897810	213.995	214
43 Aroclor 1254 (5)	9.265	9.262	0.003	1252401568	407.963	408
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.923	11.920	0.003	5081355672	81.3825	81.4

### QC Flag Legend

- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.



Data File: /chem1/SV00A/GC\_58.i/170525.b/b17052544.d

Date : 25-MAY-2017 23:43

Client ID:

Sample Info: 17-05-1776-14

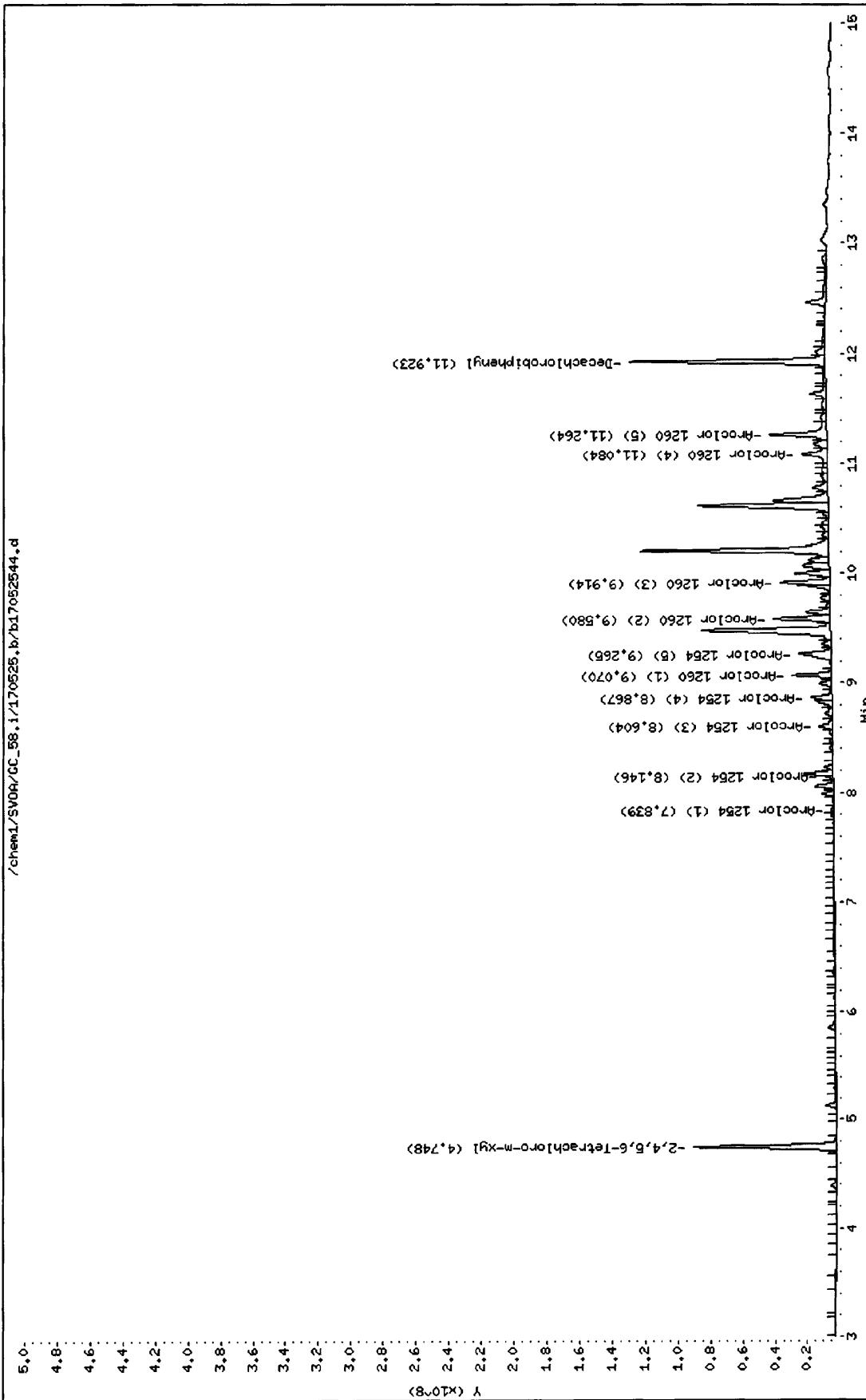
Instrument: GC\_58.i

Operator: 944

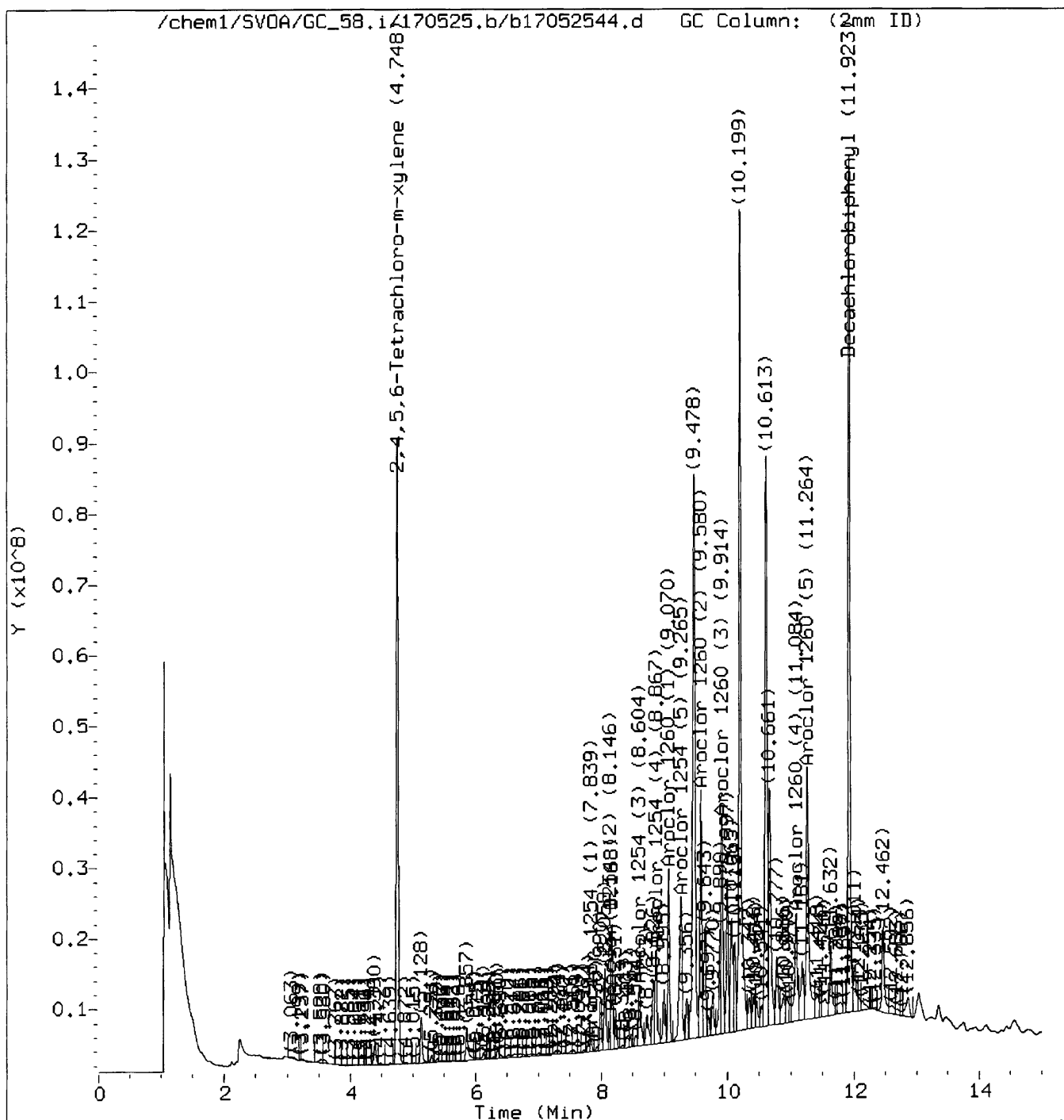
Column diameter: 2.00

Column phase:

/chem1/SV00A/GC\_58.i/170525.b/b17052544.d



Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee

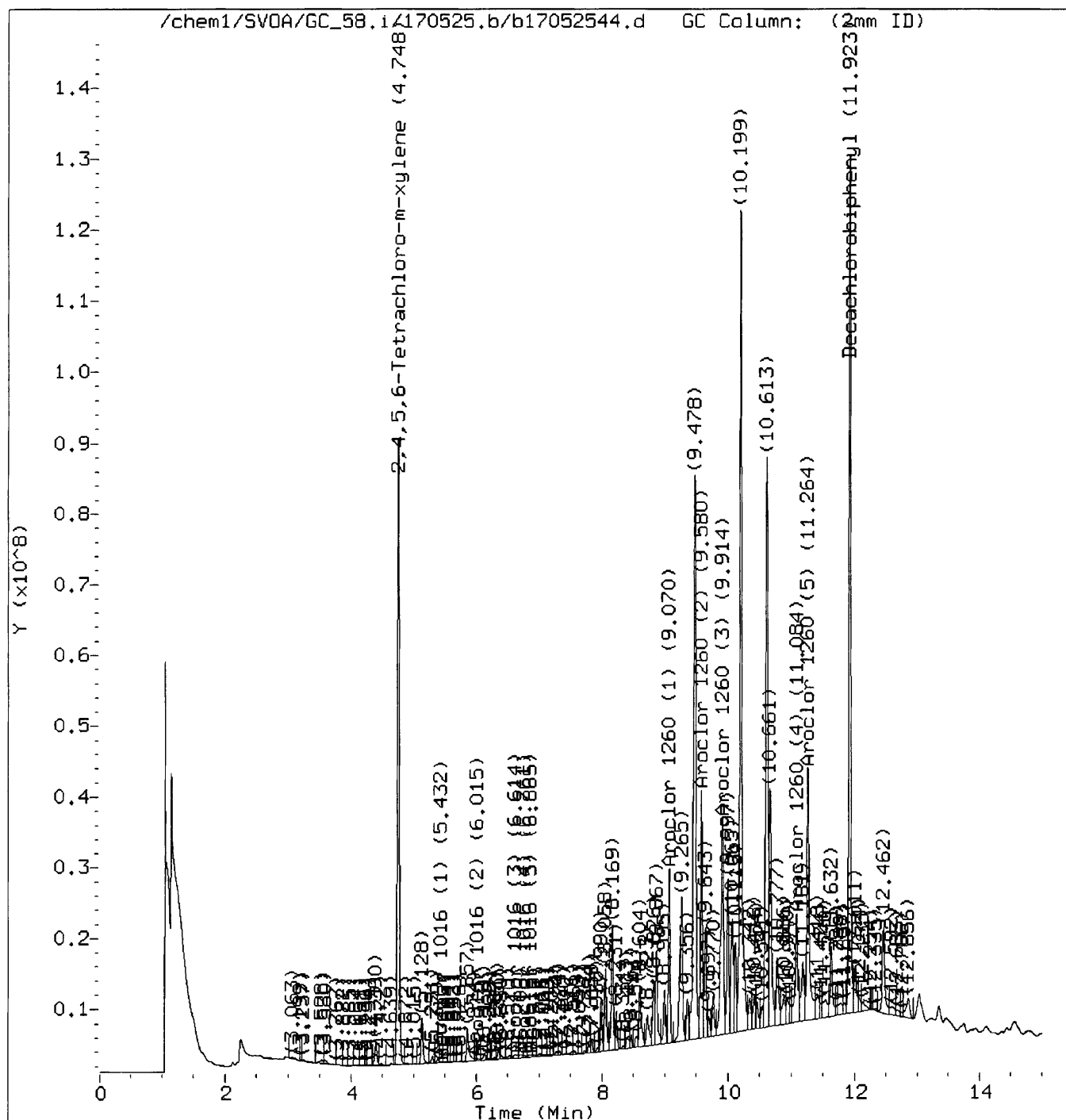
Analyst responsible for change: on 05/26/2017 at 11:02.

Target 3.5 esignature user ID: src3

3

Audit/management approval: \_\_\_\_\_

Original Data File



**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-26 00:01  
**REVIEWED BY:**  
**D/T REVIEWED:** *u*

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705254517052545

**# 15**                      **CLIENT SAMPLE NUMBER: TP-S004**

**LCS/MB BATCH:** 170523L12                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.10 g  
**MS/MSD BATCH:** 170523S12                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	85.0	1.00	ND	50	
Aroclor-1260	326	1.00	162	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052545.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052545.d  
 Lab Smp Id:  
 Inj Date : 26-MAY-2017 00:01  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-15  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 45  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.745	4.740	0.005	4093362148	64.5796	64.6
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260				3760509036	325.951	326
9 Aroclor 1260 (1)	9.058	9.057	0.001	695021661	201.456	201
10 Aroclor 1260 (2)	9.571	9.570	0.001	654270651	255.552	256 (M)
11 Aroclor 1260 (3)	9.876	9.908	-0.032	1564317858	545.763	546
12 Aroclor 1260 (4)	11.077	11.081	-0.004	278934457	344.210	344
13 Aroclor 1260 (5)	11.258	11.264	-0.006	567964409	306.979	307
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052545.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				1107727919	85.0373	85.0 (a)
39 Aroclor 1254 (1)	7.828	7.824	0.004	68331827	30.8506	30.8 (a)
40 Aroclor 1254 (2)	8.125	8.120	0.005	35552654	30.6844	30.7 (aM)
41 Aroclor 1254 (3)	8.594	8.590	0.004	174829629	45.4694	45.5 (a)
42 Aroclor 1254 (4)	8.855	8.859	-0.004	296868100	108.429	108
43 Aroclor 1254 (5)	9.257	9.262	-0.005	532145709	173.344	173
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.919	11.920	-0.001	5015782058	80.3323	80.3

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.



Data File: /chem1/SV0A/GC\_58.i/170525.b/b17052545.d

Date : 26-HAY-2017 00:01

Client ID:

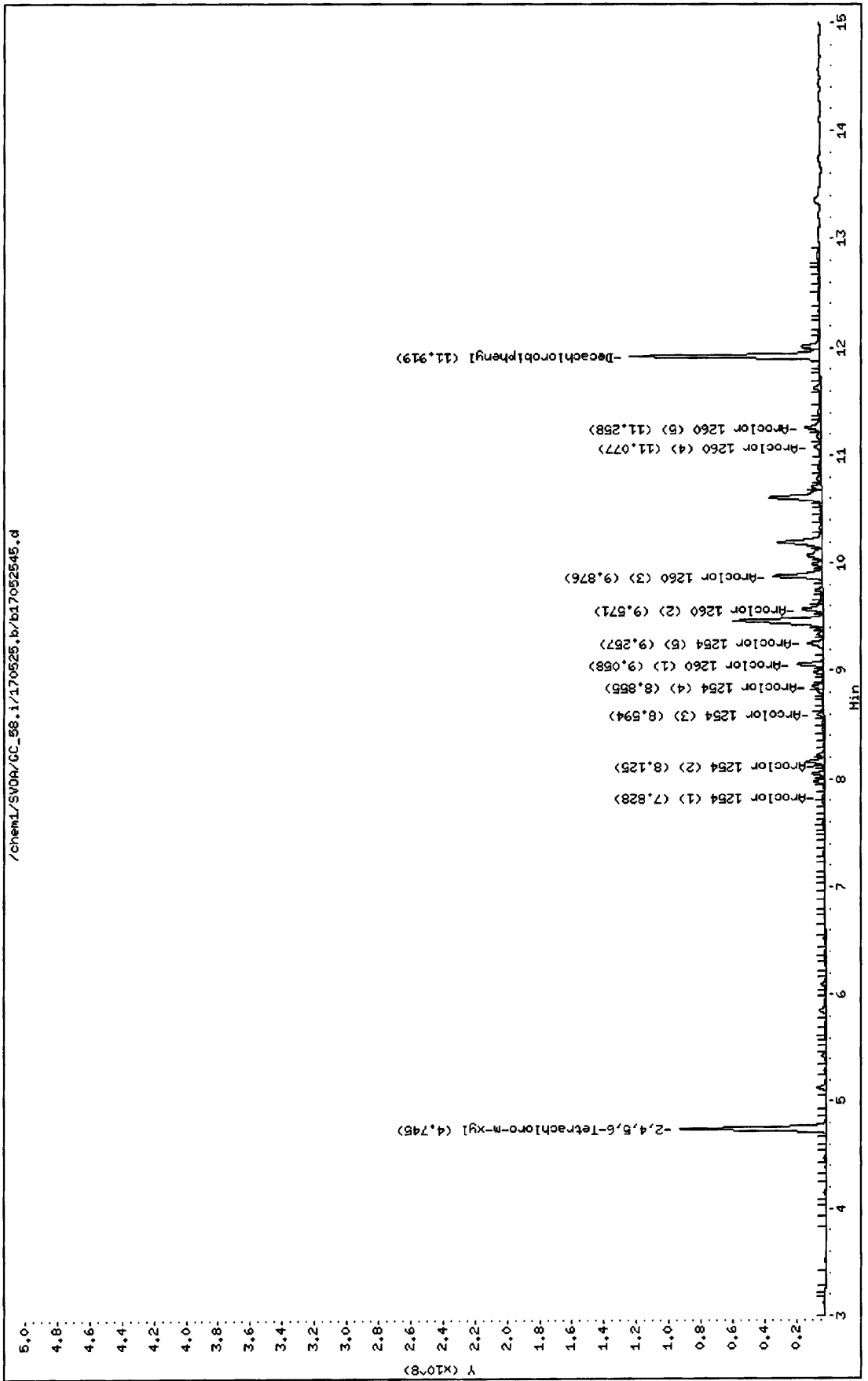
Sample Info: 17-05-1776-15

Instrument: GC\_58.i

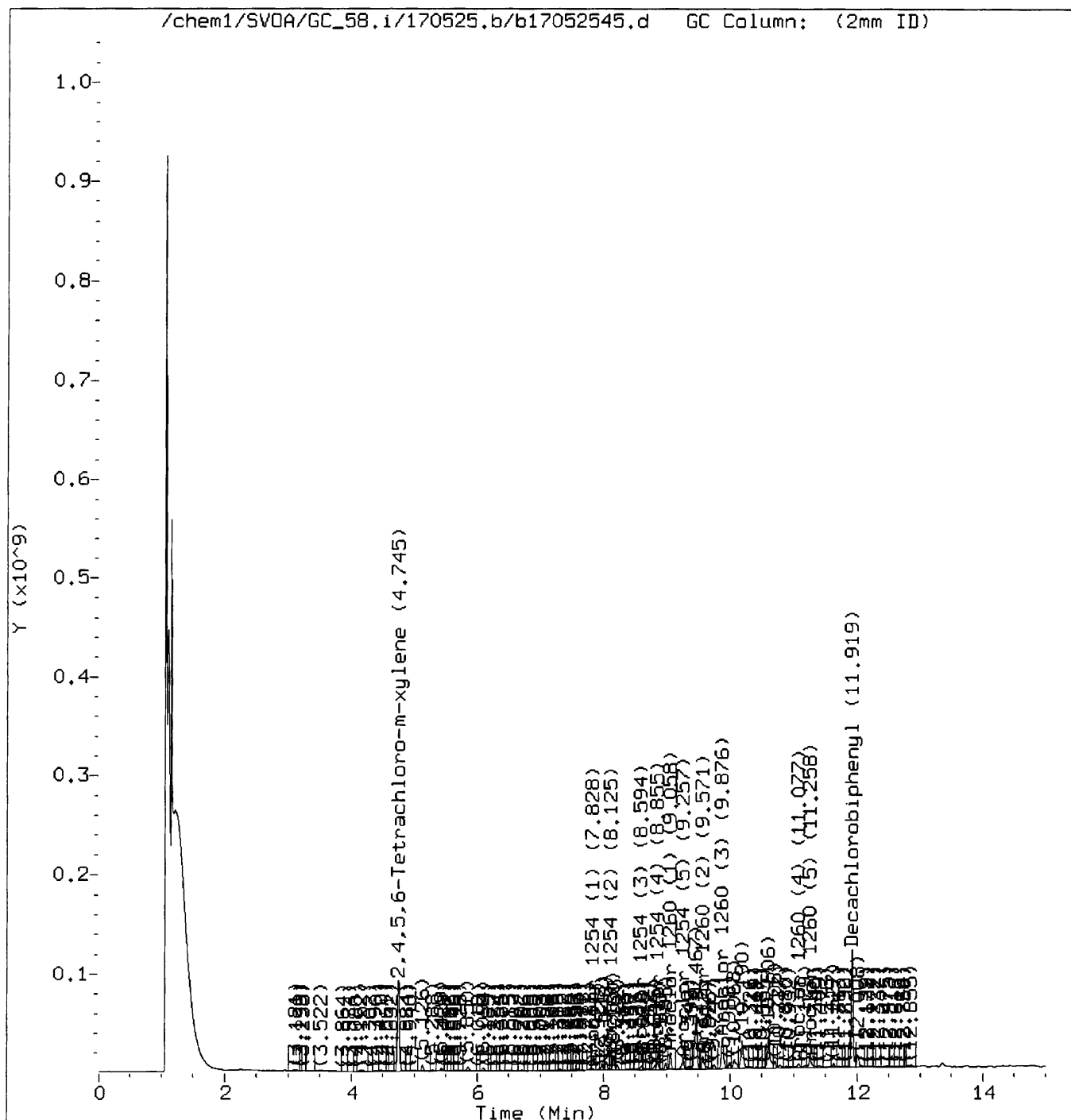
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee

Analyst responsible for change: on 05/26/2017 at 11:02.

Target 3.5 esignature user ID: src3

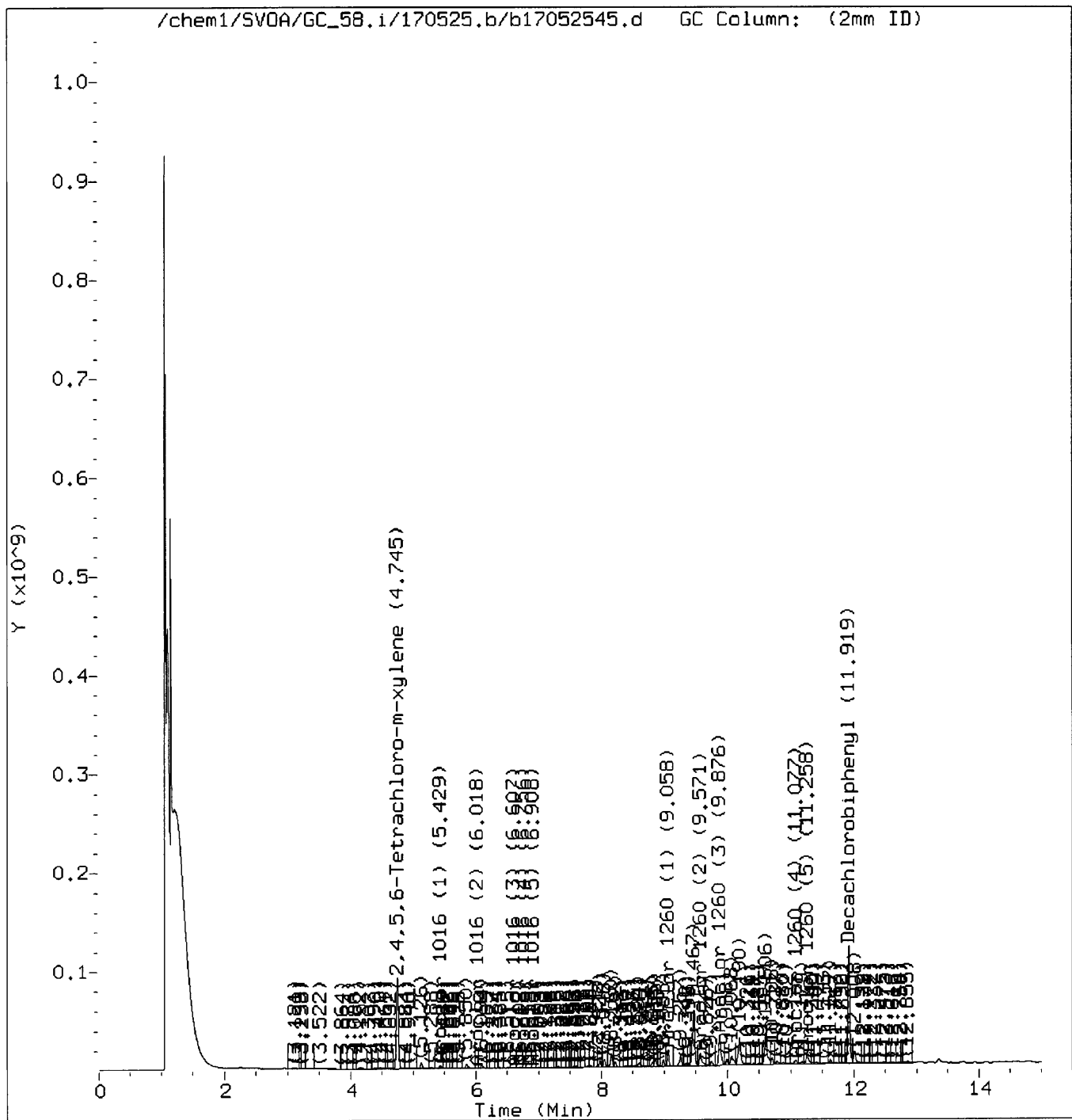
Audit/management approval: \_\_\_\_\_

*M*





Original Data File



**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-26 00:19  
**REVIEWED BY:**  
**D/T REVIEWED:** 2

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705254617052546

**# 16**                      **CLIENT SAMPLE NUMBER: TP-S005**

**LCS/MB BATCH:** 170523L12                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.00 g  
**MS/MSD BATCH:** 170523S12                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	733	1.00	366	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

↑  
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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052546.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052546.d  
 Lab Smp Id:  
 Inj Date : 26-MAY-2017 00:19  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-16  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 46  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.744	4.740	0.004	5011243405	79.0607	79.1
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260				8452598460	732.648	733
9 Aroclor 1260 (1)	9.058	9.057	0.001	482435215	139.836	140
10 Aroclor 1260 (2)	9.569	9.570	-0.001	2428743198	948.645	949
11 Aroclor 1260 (3)	9.904	9.908	-0.004	1217266930	424.683	425
12 Aroclor 1260 (4)	11.076	11.081	-0.005	1384852902	1708.93	1710
13 Aroclor 1260 (5)	11.256	11.264	-0.008	2939300215	1588.66	1590
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052546.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
=====	==	=====	=====	=====	=====	=====	=====	=====
22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						Compound Not Detected.		
39 Aroclor 1254 (1)						Compound Not Detected.		
40 Aroclor 1254 (2)						Compound Not Detected.		
41 Aroclor 1254 (3)						Compound Not Detected.		
42 Aroclor 1254 (4)						Compound Not Detected.		
43 Aroclor 1254 (5)						Compound Not Detected.		
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	11.916	11.920	-0.004	6136661803	98.2842	98.3		

Data File: /chem1/SVDR/GC\_58.i/170525.b/b17052546.d

Date : 26-MAY-2017 00:19

Client ID:

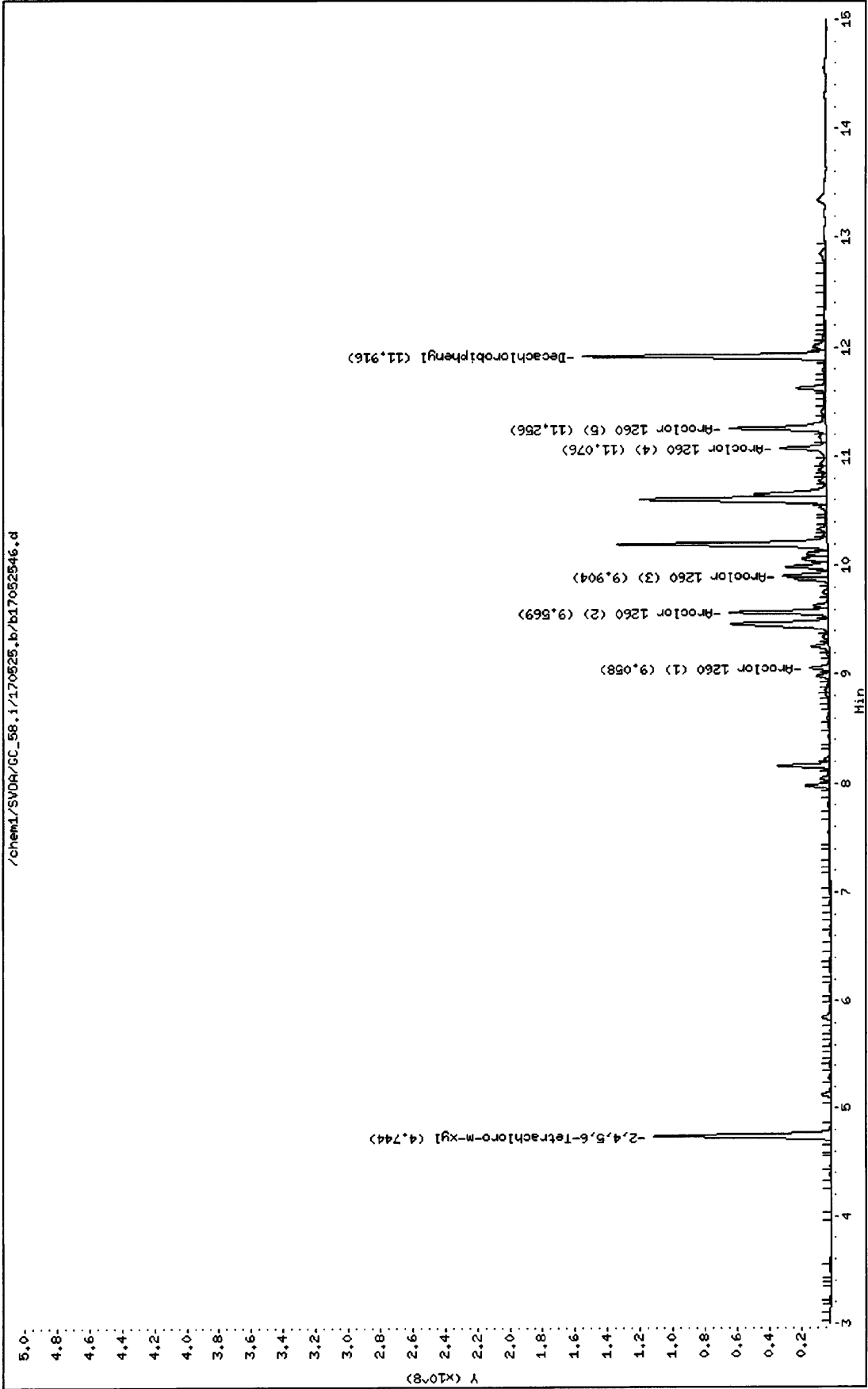
Sample Info: 17-05-1776-16

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-26 00:37  
**REVIEWED BY:**  
**D/T REVIEWED:** *M*

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705254717052547

**# 17**                      **CLIENT SAMPLE NUMBER: TP-S006**

**LCS/MB BATCH:** 170523L12                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.10 g  
**MS/MSD BATCH:** 170523S12                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	108	1.00	53.7	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052547.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052547.d  
 Lab Smp Id:  
 Inj Date : 26-MAY-2017 00:37  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-17  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 47  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.743	4.740	0.003	3484749800	54.9778	55.0
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260				1241870554	107.642	108
9 Aroclor 1260 (1)	9.060	9.057	0.003	472704773	137.016	137
10 Aroclor 1260 (2)	9.569	9.570	-0.001	207045215	80.8700	80.9 (a)
11 Aroclor 1260 (3)	9.905	9.908	-0.003	76735018	26.7715	26.8 (a)
12 Aroclor 1260 (4)	11.077	11.081	-0.004	186279642	229.872	230
13 Aroclor 1260 (5)	11.258	11.264	-0.006	299105906	161.664	162
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052547.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				Compound Not Detected.		
39 Aroclor 1254 (1)				Compound Not Detected.		
40 Aroclor 1254 (2)				Compound Not Detected.		
41 Aroclor 1254 (3)				Compound Not Detected.		
42 Aroclor 1254 (4)				Compound Not Detected.		
43 Aroclor 1254 (5)				Compound Not Detected.		
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.917	11.920	-0.003	4923809186	78.8593	78.8

QC Flag Legend

a - Target compound detected but, quantitated amount  
 Below Limit Of Quantitation(BLOQ).



Data File: /chem1/SV00A/GC\_58.i/170525.b/b17052547.d

Date : 26-MAY-2017 00:37

Client ID:

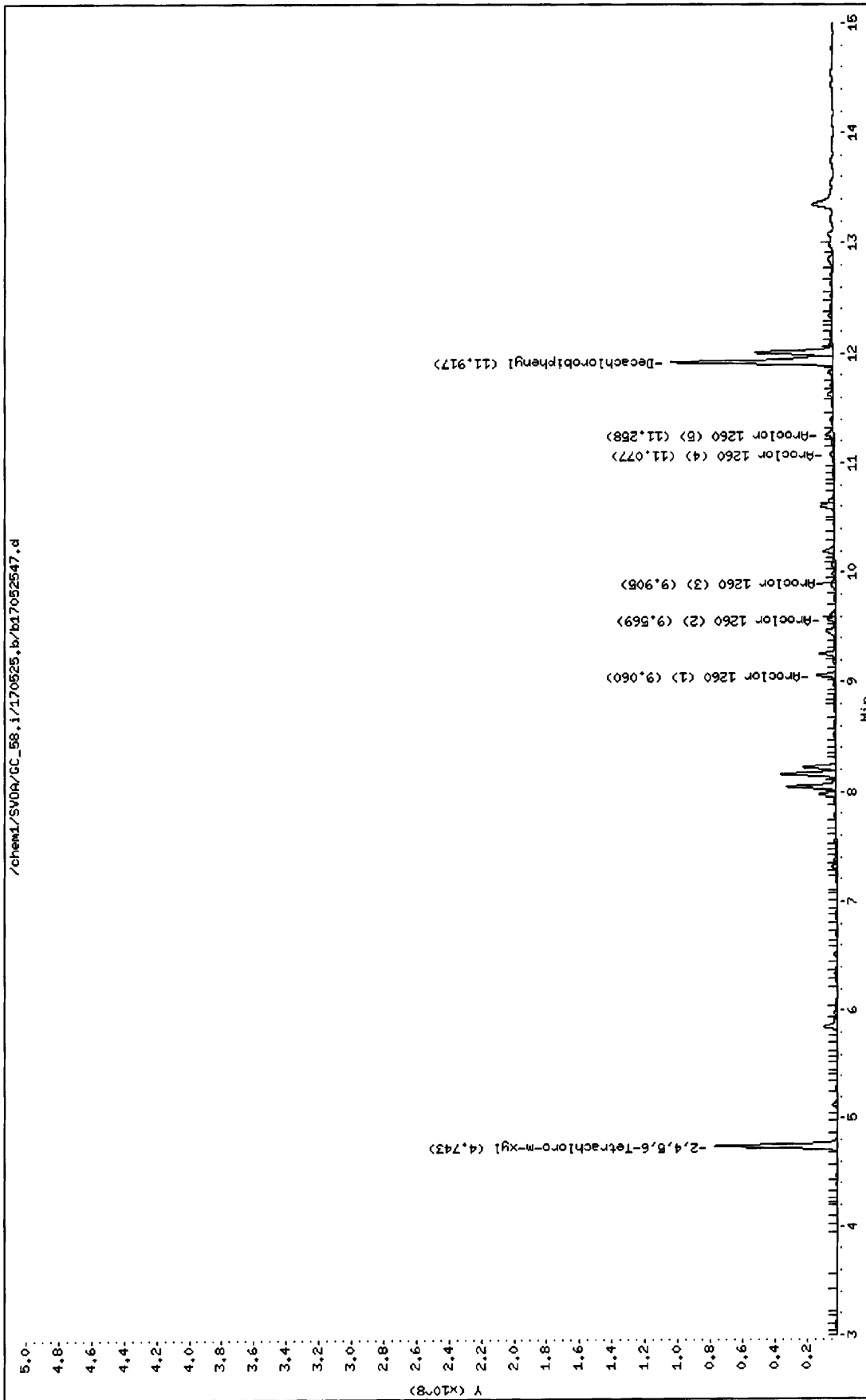
Sample Info: 17-05-1776-17

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-26 00:55  
**REVIEWED BY:**  
**D/T REVIEWED:** *u*

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705254817052548

**# 18**                      **CLIENT SAMPLE NUMBER: TP-S007**

**LCS/MB BATCH:** 170523L12                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.00 g  
**MS/MSD BATCH:** 170523S12                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	340	1.00	170	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052548.d  
 Report Date: 26-May-2017 11:01

Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052548.d  
 Lab Smp Id:  
 Inj Date : 26-MAY-2017 00:55  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-18  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 48  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.747	4.740	0.007	3476154843	54.8422	54.8
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260				3922794164	340.017	340
9 Aroclor 1260 (1)	9.059	9.057	0.002	1627279222	471.675	472
10 Aroclor 1260 (2)	9.576	9.570	0.006	830297809	324.307	324
11 Aroclor 1260 (3)	9.903	9.908	-0.005	588915606	205.462	205 (M)
12 Aroclor 1260 (4)	11.080	11.081	-0.001	259116588	319.755	320
13 Aroclor 1260 (5)	11.261	11.264	-0.003	617184939	333.582	334
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052548.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
=====	==	=====	=====	=====	=====	=====
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				Compound Not Detected.		
39 Aroclor 1254 (1)				Compound Not Detected.		
40 Aroclor 1254 (2)				Compound Not Detected.		
41 Aroclor 1254 (3)				Compound Not Detected.		
42 Aroclor 1254 (4)				Compound Not Detected.		
43 Aroclor 1254 (5)				Compound Not Detected.		
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.924	11.920	0.004	4183008813	66.9947	67.0

QC Flag Legend

M - Compound response manually integrated.



Data File: /chem1/SVOR/GC\_58.i/170525.b/b17052548.d

Date : 26-MAY-2017 00:55

Client ID:

Sample Info: 17-05-1776-18

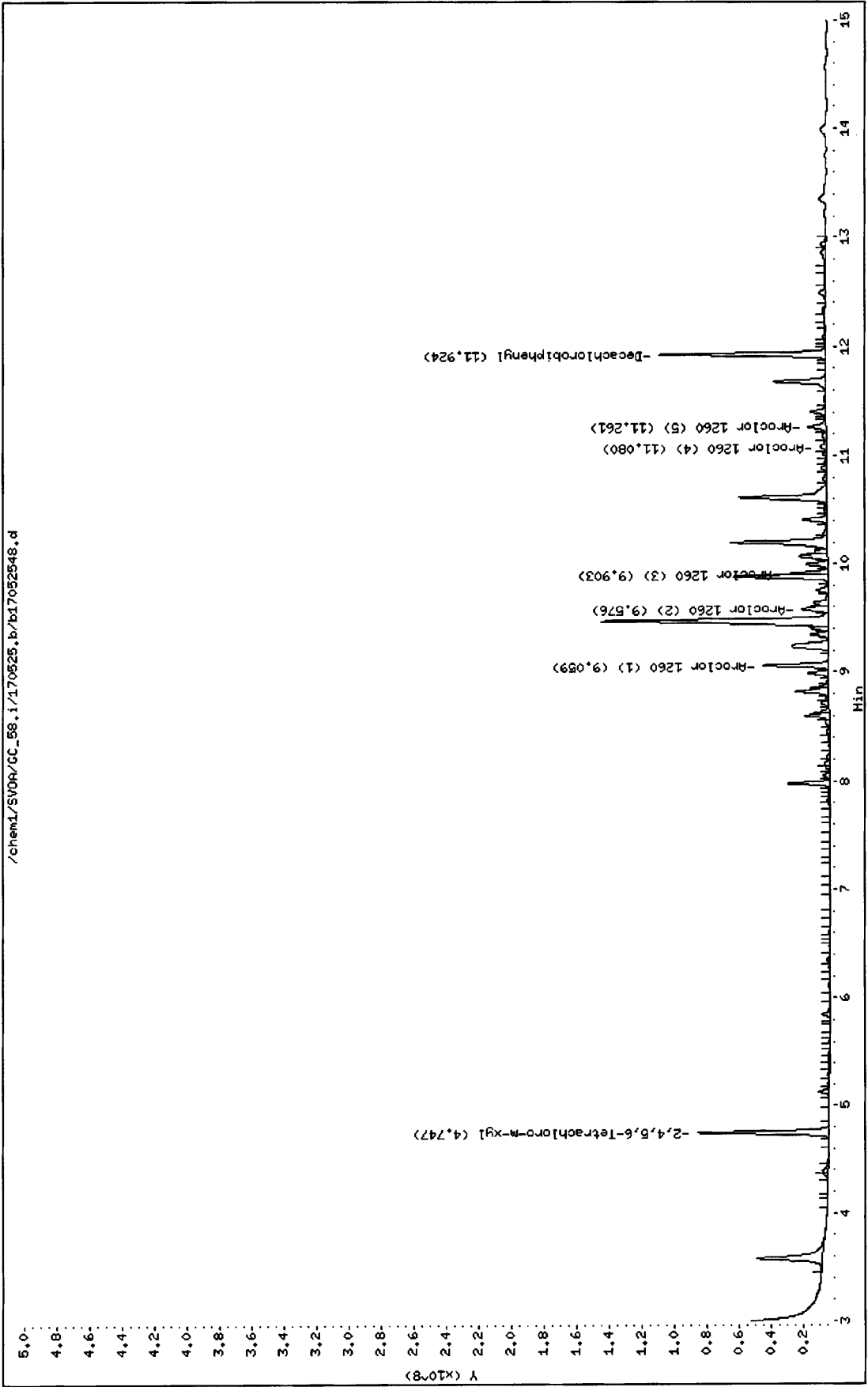
Instrument: GC\_58.i

Operator: 944

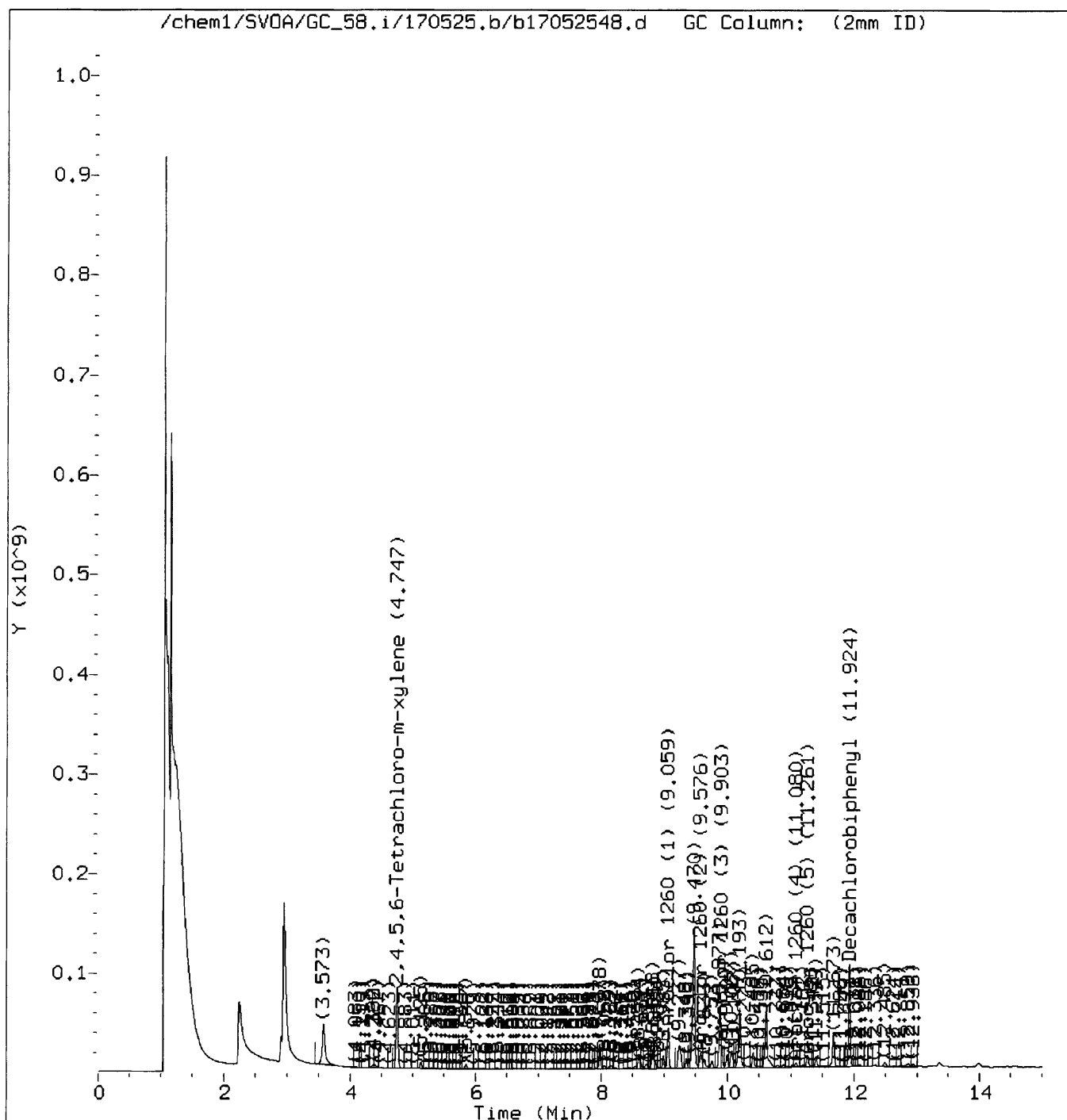
Column diameter: 2.00

Column phase:

/chem1/SVOR/GC\_58.i/170525.b/b17052548.d



Manually Integrated Data File



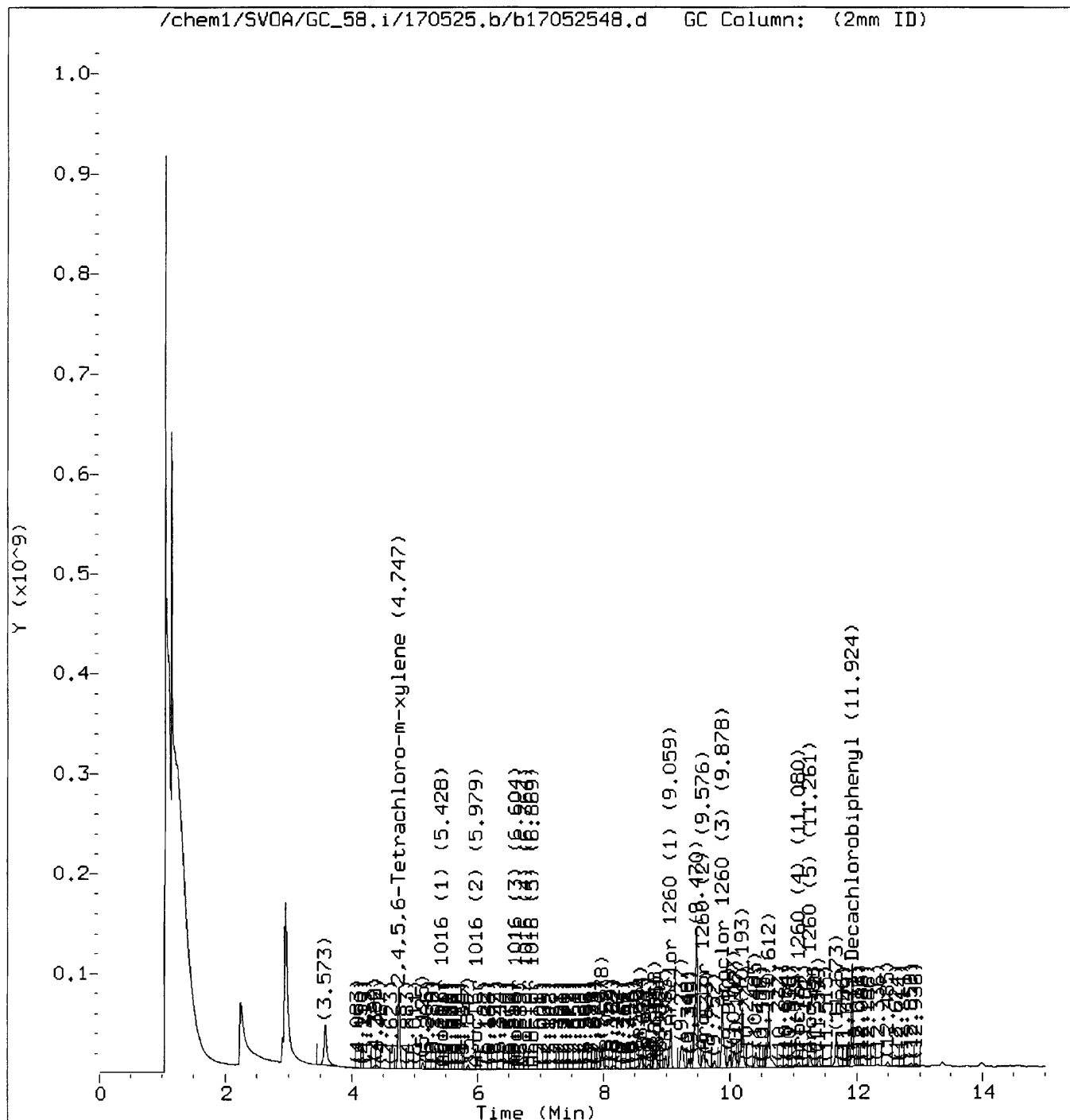
Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee  
 Analyst responsible for change: on 05/26/2017 at 11:02.  
 Target 3.5 esignature user ID: src3

Audit/management approval: \_\_\_\_\_ *ML*



Original Data File



**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-26 01:13  
**REVIEWED BY:**  
**D/T REVIEWED:** *m*

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705254917052549

**# 19**                      **CLIENT SAMPLE NUMBER: TP-S008**

<b>LCS/MB BATCH:</b> 170523L12	<b>SAMPLE VOLUME / WEIGHT:</b> DEFAULT: 20.00 g / ACTUAL: 20.00 g
<b>MS/MSD BATCH:</b> 170523S12	<b>FINAL VOLUME / WEIGHT:</b> DEFAULT: 10.00 ml / ACTUAL: 10.00 ml
<b>UNITS:</b> ug/kg	<b>ADJUSTMENT RATIO TO PF:</b> 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	41.0	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

Return to Contents 



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052549.d  
 Report Date: 26-May-2017 11:01

Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052549.d  
 Lab Smp Id:  
 Inj Date : 26-MAY-2017 01:13  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-19  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 49  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.744	4.740	0.004	4799137517	75.7144	75.7
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				472543738	40.9588	41.0(a)
9 Aroclor 1260 (1)	9.057	9.057	0.000	47378456	13.7329	13.7(a)
10 Aroclor 1260 (2)	9.570	9.570	0.000	42050217	16.4244	16.4(a)
11 Aroclor 1260 (3)	9.875	9.908	-0.033	126256746	44.0487	44.0(a)
12 Aroclor 1260 (4)	11.086	11.081	0.005	106529675	131.460	131
13 Aroclor 1260 (5)	11.255	11.264	-0.009	150328644	81.2512	81.2(a)
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052549.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						Compound Not Detected.		
39 Aroclor 1254 (1)						Compound Not Detected.		
40 Aroclor 1254 (2)						Compound Not Detected.		
41 Aroclor 1254 (3)						Compound Not Detected.		
42 Aroclor 1254 (4)						Compound Not Detected.		
43 Aroclor 1254 (5)						Compound Not Detected.		
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	11.917	11.920	-0.003	5346822593	85.6342	85.6		

QC Flag Legend

a - Target compound detected but, quantitated amount  
 Below Limit Of Quantitation(BLOQ).

Data File: /chem1/SV04/CC\_58.i/170525.b/b17052549.d

Date : 26-MAY-2017 01:13

Client ID:

Sample Info: 17-05-1776-19

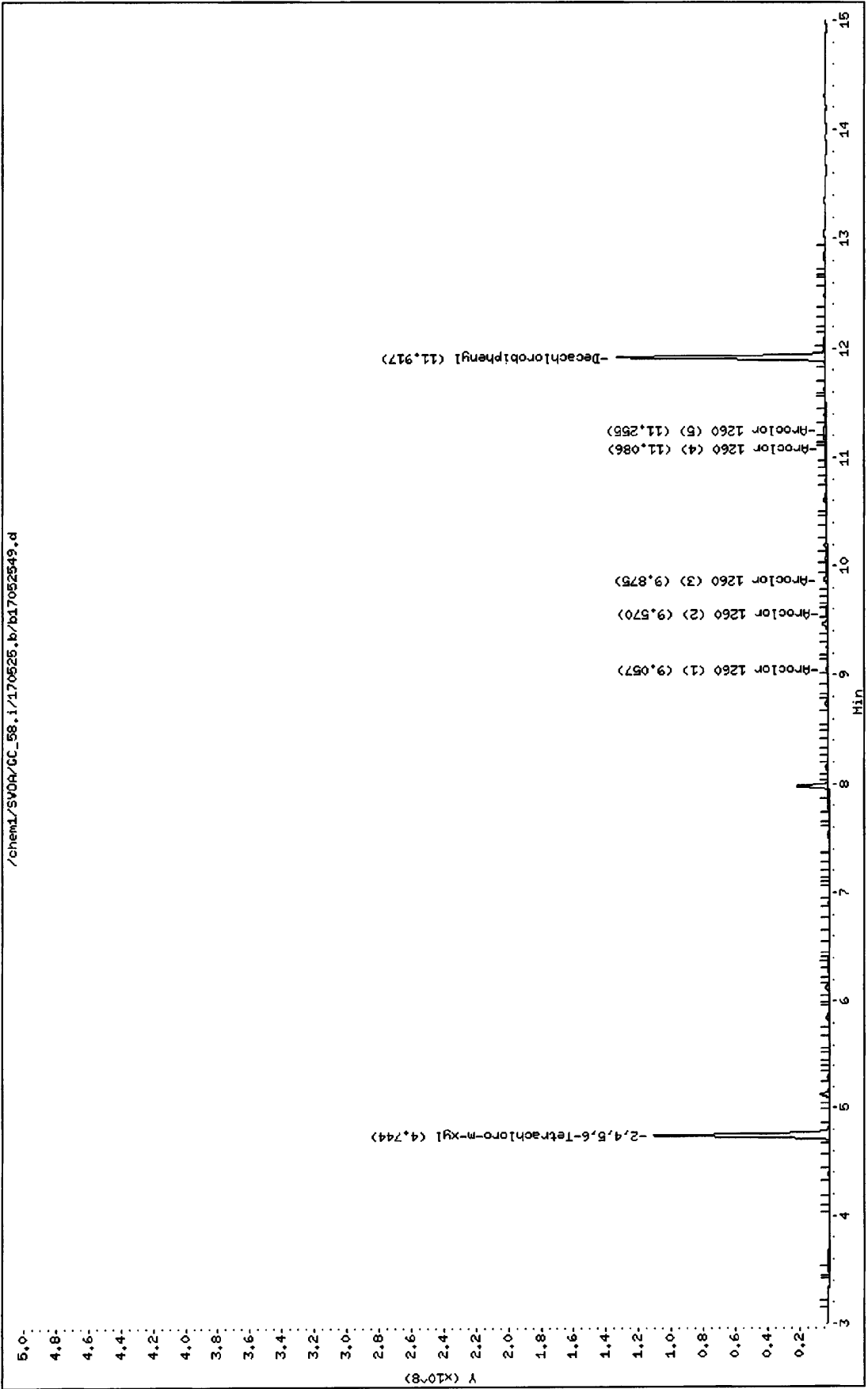
Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:

/chem1/SV04/CC\_58.i/170525.b/b17052549.d



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-26 01:31  
**REVIEWED BY:**  
**D/T REVIEWED:** *m*

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705255017052550

**# 20**                      **CLIENT SAMPLE NUMBER: TP-S009**

**LCS/MB BATCH:** 170523L12                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.10 g  
**MS/MSD BATCH:** 170523S12                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	72.4	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052550.d  
 Report Date: 26-May-2017 11:01

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052550.d  
 Lab Smp Id:  
 Inj Date : 26-MAY-2017 01:31  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-20  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 50  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.745	4.740	0.005	3412727305	53.8415	53.8
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260				834923565	72.3689	72.4 (a)
9 Aroclor 1260 (1)	9.069	9.057	0.012	418501065	121.305	121
10 Aroclor 1260 (2)	9.569	9.570	-0.001	135295510	52.8452	52.8 (a)
11 Aroclor 1260 (3)	9.899	9.908	-0.009	77371775	26.9936	27.0 (aM)
12 Aroclor 1260 (4)	11.079	11.081	-0.002	55377882	68.3373	68.3 (a)
13 Aroclor 1260 (5)	11.256	11.264	-0.008	148377333	80.1965	80.2 (a)
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052550.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						Compound Not Detected.		
39 Aroclor 1254 (1)						Compound Not Detected.		
40 Aroclor 1254 (2)						Compound Not Detected.		
41 Aroclor 1254 (3)						Compound Not Detected.		
42 Aroclor 1254 (4)						Compound Not Detected.		
43 Aroclor 1254 (5)						Compound Not Detected.		
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	11.916	11.920	-0.004	5518182289	88.3787	88.4		

### QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: /chem1/SVDA/GC\_58.i/170525.b/b17052550.d

Date: 26-MAY-2017 01:31

Client ID:

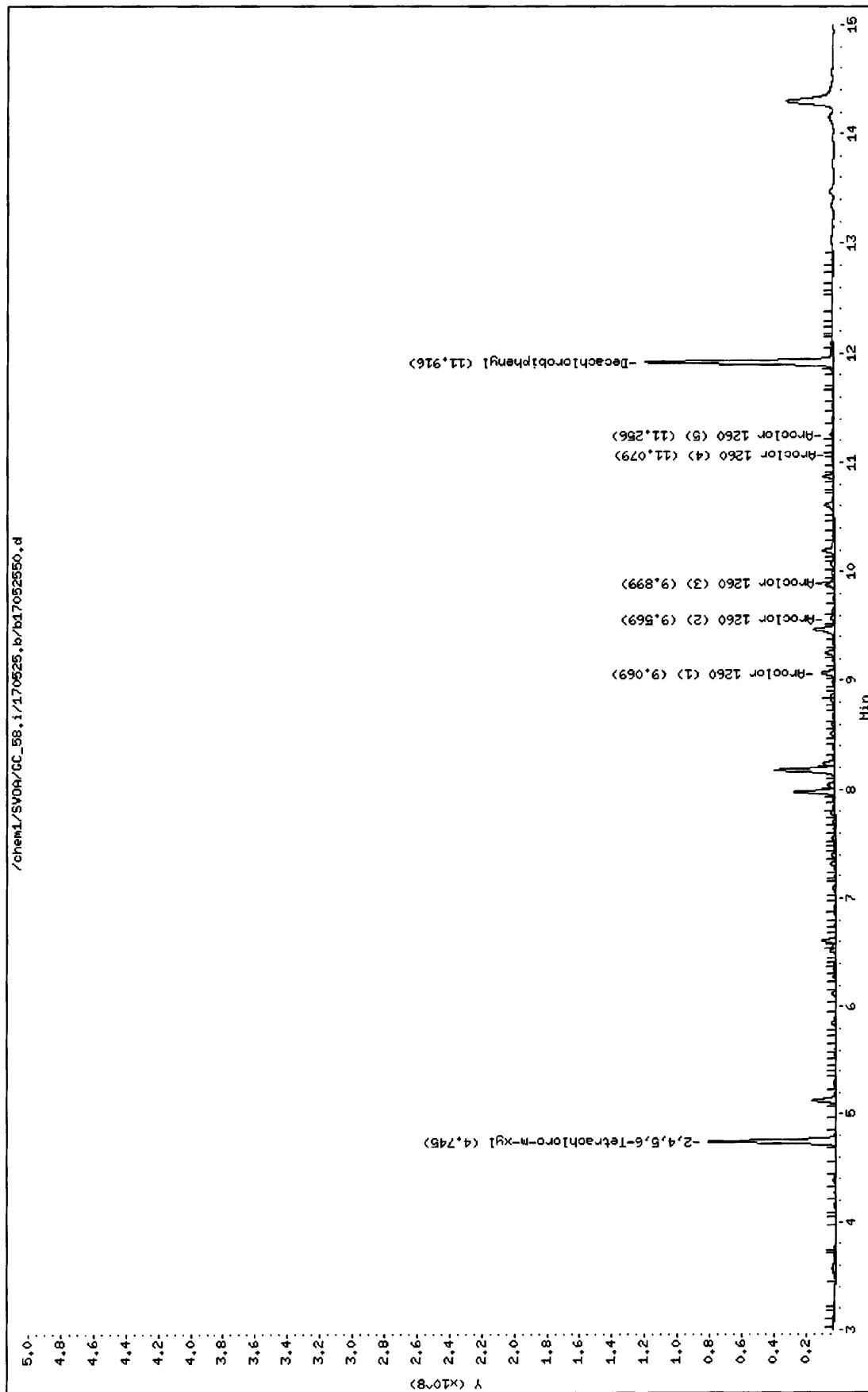
Sample Info: 17-05-1776-20

Instrument: GC\_58.i

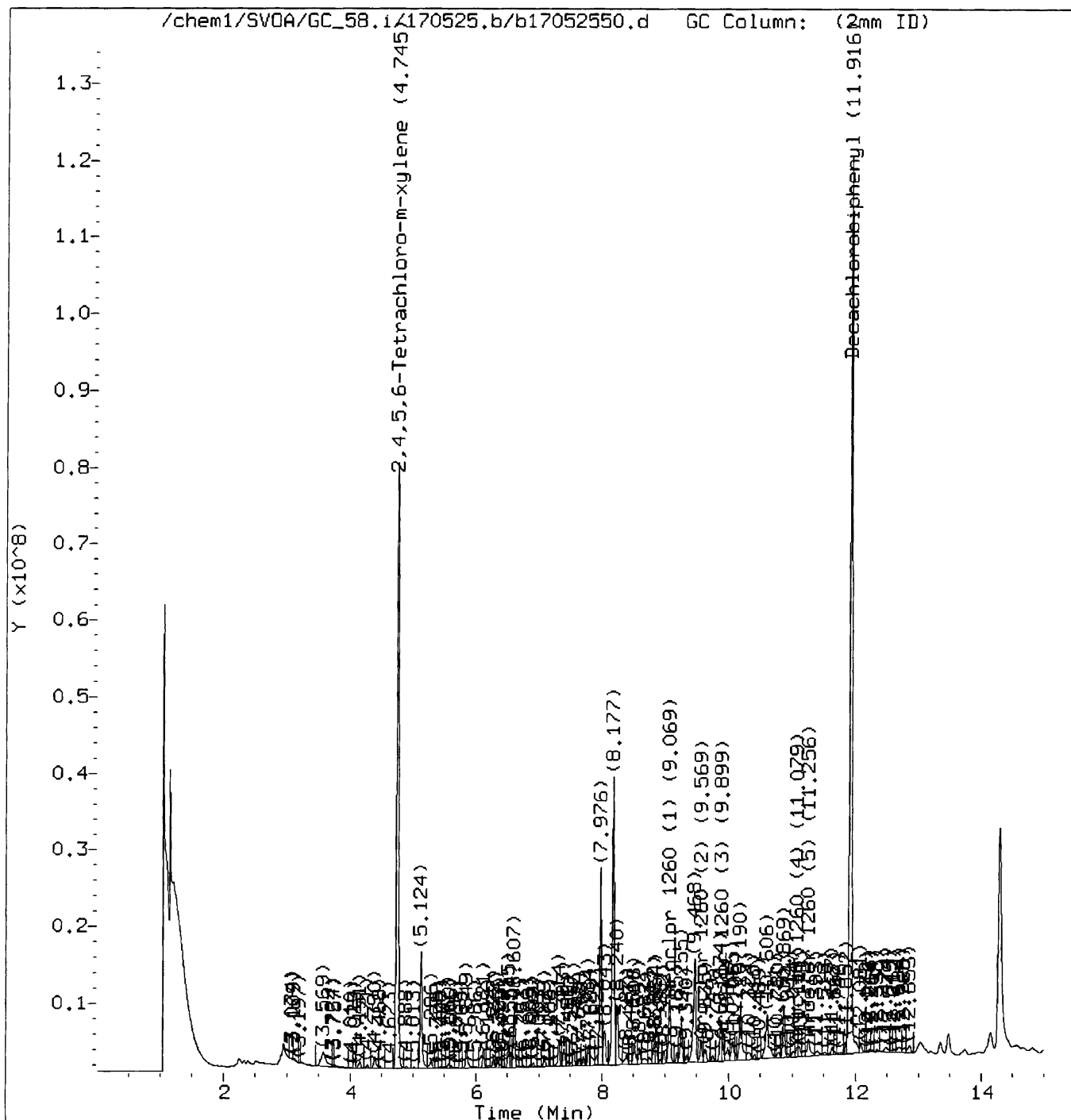
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



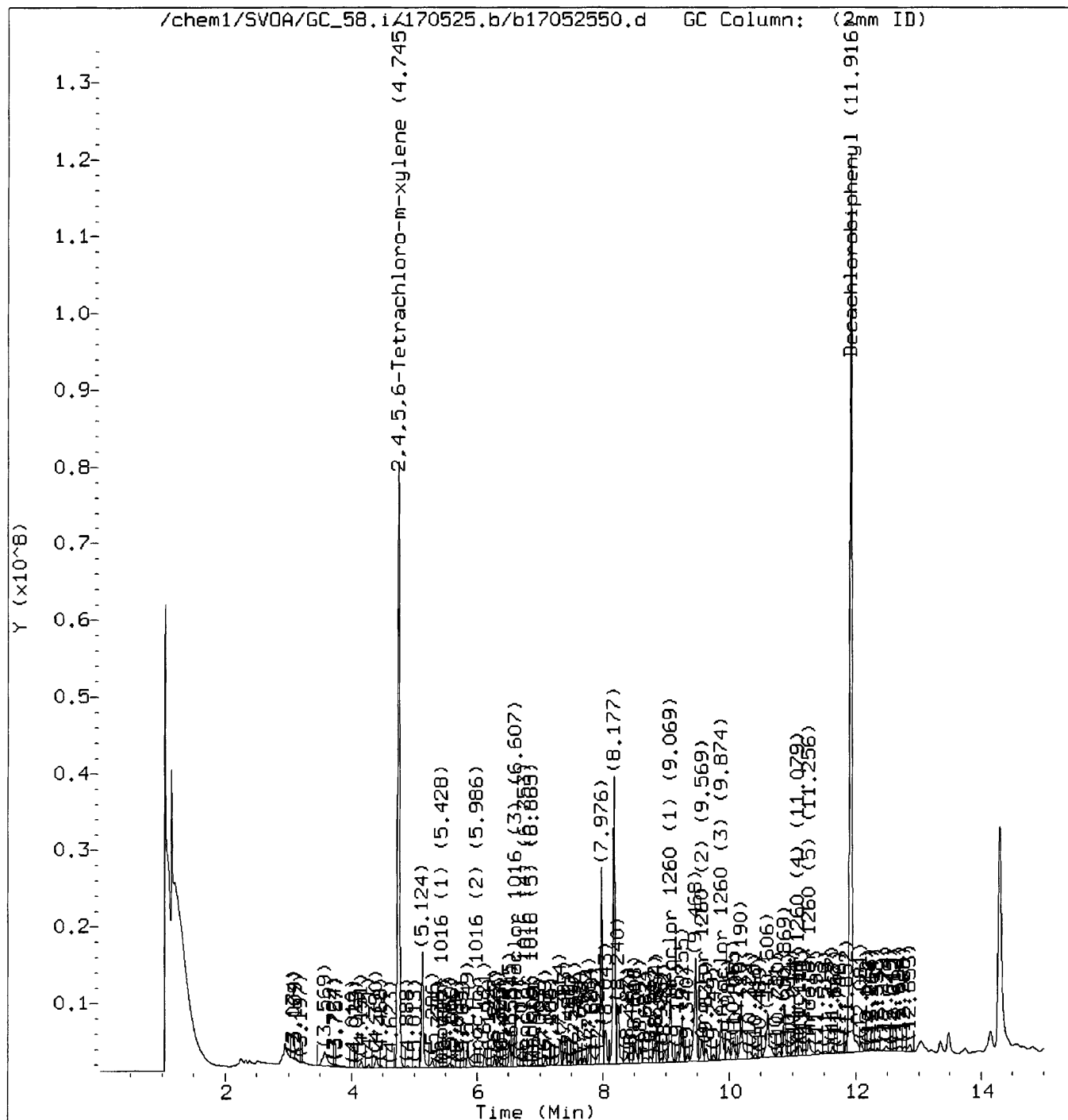
Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee  
 Analyst responsible for change: on 05/26/2017 at 11:02.  
 Target 3.5 esignature user ID: src3

Audit/management approval: \_\_\_\_\_




Original Data File



RAW DATA SHEET  
FOR METHOD: EPA 8082

WORK ORDER: 17-05-1776  
INSTRUMENT: GC 31  
EXTRACTION: EPA 3545  
D/T EXTRACTED: 2017-05-23 00:00

ANALYZED BY: 944  
D/T ANALYZED: 2017-05-25 11:37  
REVIEWED BY:  
D/T REVIEWED: 

DATA FILE: /chem1/SVOA/GC\_31/170525/b1705251017052510

# 21 CLIENT SAMPLE NUMBER: TP-S010

LCS/MB BATCH: 170523L13 SAMPLE VOLUME / WEIGHT: DEFAULT: 20.00 g / ACTUAL: 20.20 g  
MS/MSD BATCH: 170523S13 FINAL VOLUME / WEIGHT: DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
UNITS: ug/kg ADJUSTMENT RATIO TO PF: 0.99

COMMENT:

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	0.000	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052510.d  
 Report Date: 25-May-2017 12:02

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Eurofins Calscience

EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170525.b/b17052510.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 11:37  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : 17-05-1776-21  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170525.b/b8082-n2.m  
 Meth Date : 25-May-2017 11:21 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 10  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL ( ug/L)
\$ 1 2,4,5,6-Tetrachloro-m-xylene	4.954	4.953	0.001	10159217747	100.916	101
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				Compound Not Detected.		
9 Aroclor 1260 (1)				Compound Not Detected.		
10 Aroclor 1260 (2)				Compound Not Detected.		
11 Aroclor 1260 (3)				Compound Not Detected.		
12 Aroclor 1260 (4)				Compound Not Detected.		
13 Aroclor 1260 (5)				Compound Not Detected.		
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		



Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052510.d  
 Report Date: 25-May-2017 12:02

Page 2

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL ( ug/L)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				Compound Not Detected.		
39 Aroclor 1254 (1)				Compound Not Detected.		
40 Aroclor 1254 (2)				Compound Not Detected.		
41 Aroclor 1254 (3)				Compound Not Detected.		
42 Aroclor 1254 (4)				Compound Not Detected.		
43 Aroclor 1254 (5)				Compound Not Detected.		
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
§ 56 Decachlorobiphenyl	11.610	11.603	0.007	11277594053	110.933	111

Data File: /chem1/SVDA/CC\_31.i/170525.b/b17052510.d

Date: 25-MAY-2017 11:37

Client ID:

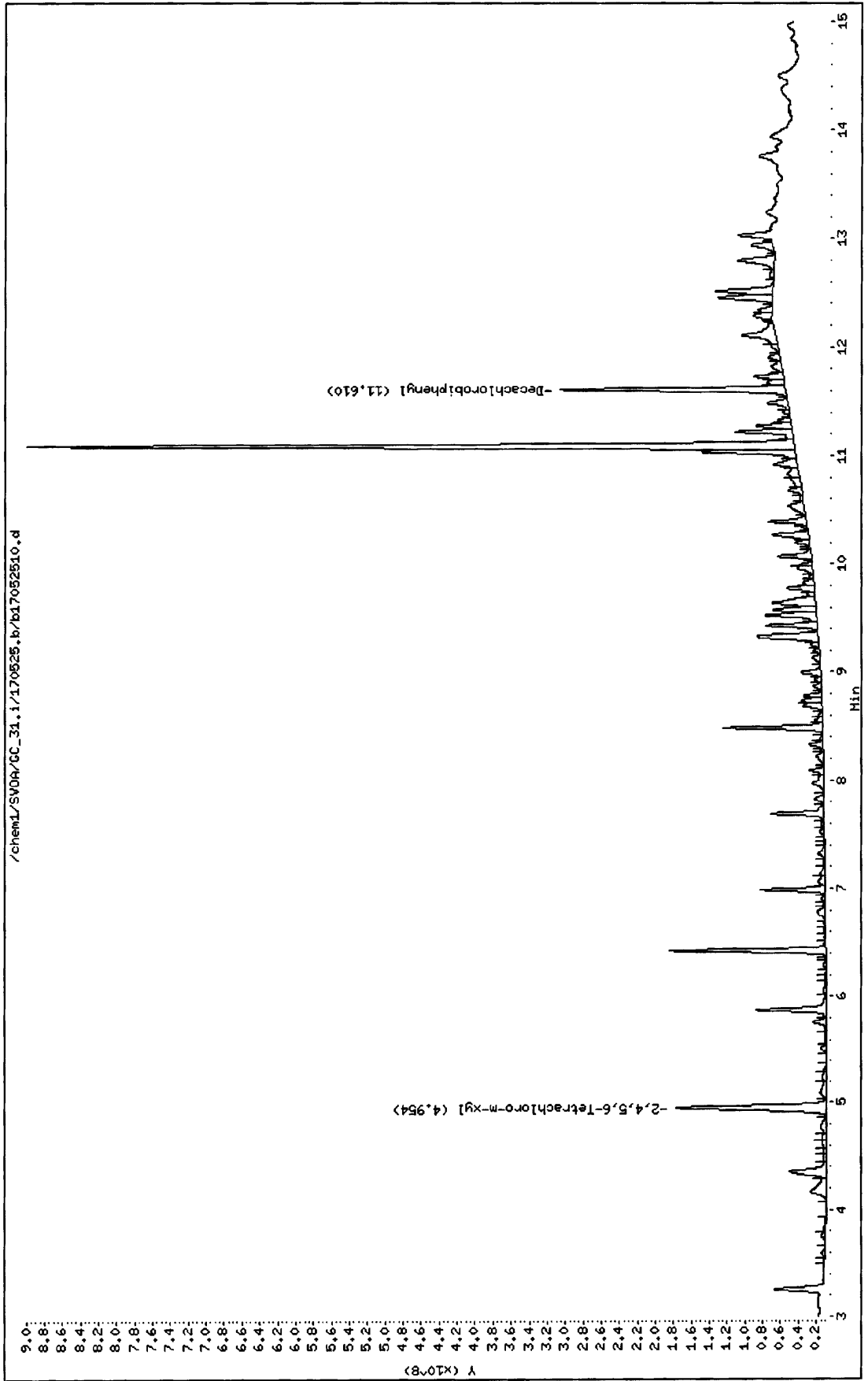
Sample Info: 17-08-1776-21

Instrument: GC\_31.i

Operator: 944

Column diameter: 2.00

Column phase:



**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 31  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 11:56  
**REVIEWED BY:** *M*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_31/170525/b1705251117052511

**# 22**      **CLIENT SAMPLE NUMBER: TP-S011**

**LCS/MB BATCH:** 170523L13      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.10 g  
**MS/MSD BATCH:** 170523S13      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	1040	1.00	517	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052511.d  
 Report Date: 25-May-2017 12:21

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Eurofins Calscience

EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170525.b/b17052511.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 11:56  
 Operator : 944 . Inst ID: GC\_31.i  
 Smp Info : 17-05-1776-22  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170525.b/b8082-n2.m  
 Meth Date : 25-May-2017 11:21 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 11  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL ( ug/L)
\$ 1 2,4,5,6-Tetrachloro-m-xylene	4.954	4.953	0.001	9170689337	91.0964	91.1
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260				27196949381	1036.16	1040
9 Aroclor 1260 (1)	9.014	8.991	0.023	4925809663	549.404	549
10 Aroclor 1260 (2)	9.458	9.438	0.020	6866348285	1032.69	1030
11 Aroclor 1260 (3)	9.735	9.717	0.018	4813028080	884.424	884
12 Aroclor 1260 (4)	10.804	10.788	0.016	4000328859	2051.51	2050 (A)
13 Aroclor 1260 (5)	11.089	11.074	0.015	6591434495	2033.73	2030 (A)
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					

Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052511.d  
 Report Date: 25-May-2017 12:21

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Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL ( ug/L)
22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						Compound Not Detected.		
39 Aroclor 1254 (1)						Compound Not Detected.		
40 Aroclor 1254 (2)						Compound Not Detected.		
41 Aroclor 1254 (3)						Compound Not Detected.		
42 Aroclor 1254 (4)						Compound Not Detected.		
43 Aroclor 1254 (5)						Compound Not Detected.		
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
§ 56 Decachlorobiphenyl	11.616	11.603	0.013	12326393084	121.250	121		

#### QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

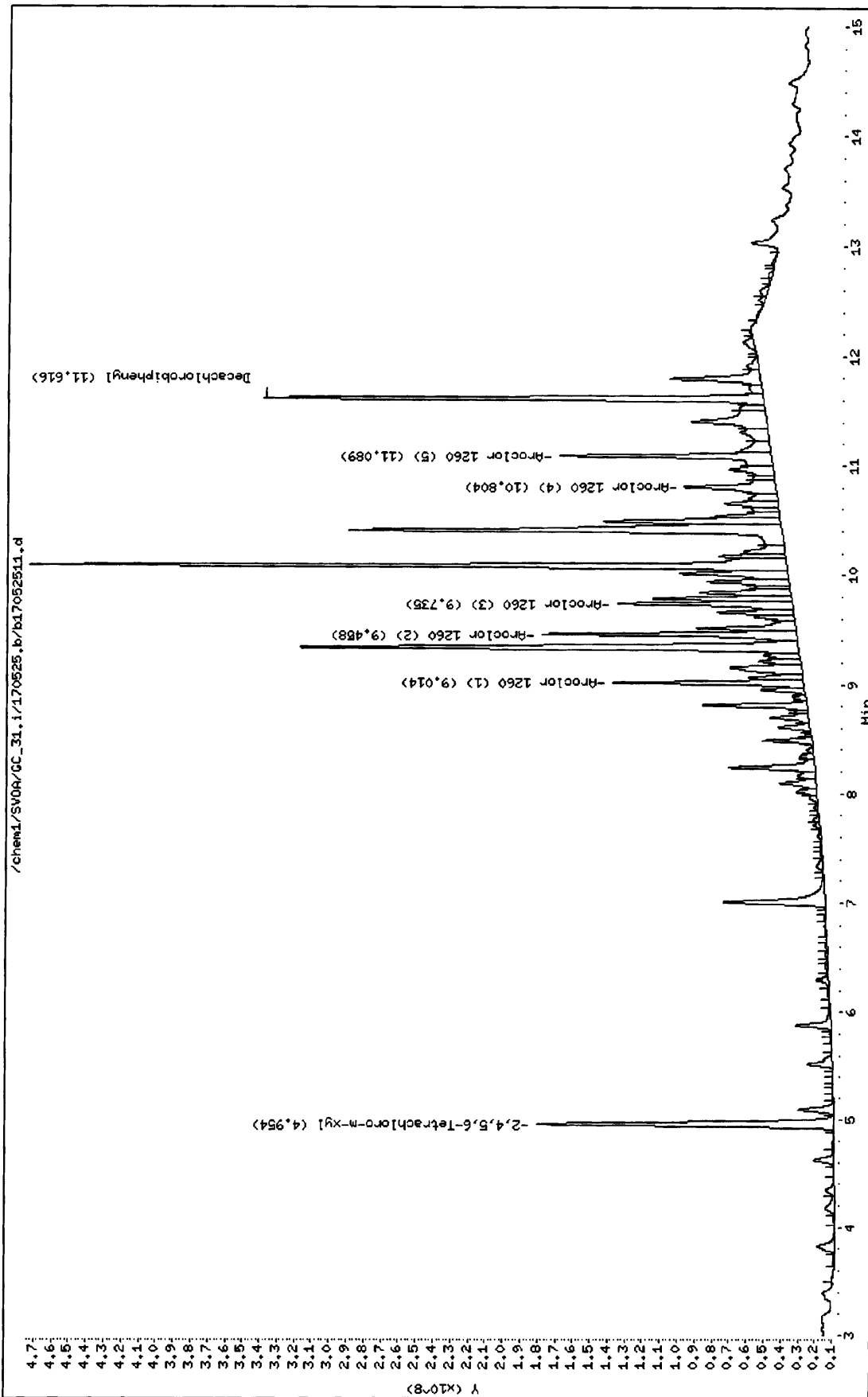


Data File: /chem1/SV00A/GC\_31.i/170525.b/b17052511.d  
Date : 25-MAY-2017 11:56  
Client ID:  
Sample Info: 17-05-1776-22

Instrument: GC\_31.i

Operator: 944  
Column diameter: 2.00

Column phase:



# EPA METHOD 8082 PCB

## Quality Control

Method Blank  
LCS/LCSD  
MS/MSD

**METHOD BLANK ASSOCIATION SUMMARY  
FOR METHOD: EPA 8082**

**MB SAMPLE ID:** 099-15-959-203  
**MB BATCH ID:** 170523L12  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 18:20  
**REVIEWED BY:** *W*  
**D/T REVIEWED:**  
**MATRIX:** Soil

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705252617052526

**CLIENT WORK ORDER: 17-05-1776**

<u>S#</u>	<u>RUN TYPE</u>	<u>CLIENT SAMPLE ID</u>	<u>D/T ANALYZED</u>	<u>DATA FILE</u>
1	DDP-S001		2017-05-25 19:50	/chem1/SVOA/GC_58/170525/b1705253117052531
2	DDP-S002		2017-05-25 20:08	/chem1/SVOA/GC_58/170525/b1705253217052532
3	DDP-S003		2017-05-25 20:26	/chem1/SVOA/GC_58/170525/b1705253317052533
4	DDP-S004		2017-05-25 20:44	/chem1/SVOA/GC_58/170525/b1705253417052534
5	DDP-S005		2017-05-25 21:02	/chem1/SVOA/GC_58/170525/b1705253517052535
6	DDP-S006		2017-05-25 21:20	/chem1/SVOA/GC_58/170525/b1705253617052536
7	DDP-S007		2017-05-25 21:38	/chem1/SVOA/GC_58/170525/b1705253717052537
8	DDP-S008		2017-05-25 21:56	/chem1/SVOA/GC_58/170525/b1705253817052538
9	DDP-S009		2017-05-25 22:14	/chem1/SVOA/GC_58/170525/b1705253917052539
10	DDP-S010		2017-05-26 16:52	/chem1/SVOA/GC_58/170526/b1705261817052618
11	DDP-S011		2017-05-25 22:50	/chem1/SVOA/GC_58/170525/b1705254117052541
12	TP-S001		2017-05-26 17:10	/chem1/SVOA/GC_58/170526/b1705261917052619
13	TP-S002		2017-05-25 23:25	/chem1/SVOA/GC_58/170525/b1705254317052543
14	TP-S003		2017-05-25 23:43	/chem1/SVOA/GC_58/170525/b1705254417052544
15	TP-S004		2017-05-26 00:01	/chem1/SVOA/GC_58/170525/b1705254517052545
16	TP-S005		2017-05-26 00:19	/chem1/SVOA/GC_58/170525/b1705254617052546
17	TP-S006		2017-05-26 00:37	/chem1/SVOA/GC_58/170525/b1705254717052547
18	TP-S007		2017-05-26 00:55	/chem1/SVOA/GC_58/170525/b1705254817052548
19	TP-S008		2017-05-26 01:13	/chem1/SVOA/GC_58/170525/b1705254917052549
20	TP-S009		2017-05-26 01:31	/chem1/SVOA/GC_58/170525/b1705255017052550

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**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 099-15-959  
**INSTRUMENT:** GC 58  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 18:20  
**REVIEWED BY:** *M*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705252617052526

**# MB**                      **CLIENT SAMPLE NUMBER: Method Blank**

<b>LCS/MB BATCH:</b> 170523L12	<b>SAMPLE VOLUME / WEIGHT:</b> DEFAULT: 20.00 g / ACTUAL: 20.00 g
<b>MS/MSD BATCH:</b>	<b>FINAL VOLUME / WEIGHT:</b> DEFAULT: 10.00 ml / ACTUAL: 10.00 ml
<b>UNITS:</b> ug/kg	<b>ADJUSTMENT RATIO TO PF:</b> 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	0.000	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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# LCS QUALITY CONTROL SHEET FOR METHOD: EPA 8082

LCS SAMPLE ID: 099-15-959- 203  
LCS/MB BATCH ID: 170523L12  
INSTRUMENT: GC 58

EXTRACTION: EPA 3545  
D/T EXTRACTED: 2017-05-23 00:00

ANALYZED BY: 944  
D/T ANALYZED: 2017-05-25 18:38  
REVIEWED BY: M  
D/T REVIEWED:

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705252717052527

<u>COMPOUND NAME</u>	<u>CONC ADDED</u>	<u>CONC REC</u>	<u>%RECOVERY</u>	<u>%REC CONTROL LIMIT</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Atroclor-1016	100.0	70.50	70	50-135	PASS	
Atroclor-1260	100.0	77.00	77	50-135	PASS	

# MATRIX SPIKE / MATRIX SPIKE DUPLICATE QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**SPIKED SAMPLE ID:** 17-05-1776-1  
**MS/MSD BATCH:** 170523S12

**INSTRUMENTS:**  
**SAMPLE:** GC 58  
**MS:** GC 58  
**MSD:** GC 58

**EXTRACTION:** EPA 3545  
**D/T EXTRACTION:**

**SAMPLE:** 2017-05-23 00:00  
**MS:** 2017-05-23 00:00  
**MSD:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:**

**SAMPLE:** 2017-05-25 19:50  
**MS:** 2017-05-25 18:56  
**MSD:** 2017-05-25 19:14

**REVIEWED BY:** *M*  
**D/T REVIEWED:**

**COMMENT:**

COMPOUND NAME	SAMPLE	INITIAL	FINAL	MS CONC	% MS.REC	MSD CONC	% MSD.REC	% REC CL	RPD	RPD CL	STATUS	QUALIFIERS
Aroclor-1016	ND	200.0	100.0	80.50	80	46.07	46	50-135	54	0-20	FAIL	34G
Aroclor-1260	ND	200.0	100.0	144.0	144	77.11	77	50-135	60	0-25	FAIL	3F4

**Data Files:**

TYPE	DATA FILE	DATA FILE PATH
MS	17052528	/chem1/SVOA/GC_58/170525/b17052528
MSD	17052529	/chem1/SVOA/GC_58/170525/b17052529

## SURROGATE RECOVERIES FOR METHOD: EPA 8082

WORK ORDER: 17-05-1776

BATCH ID:

LCS/MB: 170523L12MS: 170523S12EXTRACTION: EPA 3545REVIEWED BY: 421D/T REVIEWED: 2017-06-22 13:31**# 1**      CLIENT SAMPLE NUMBER: **DDP-S001**INSTRUMENT: GC 58D/T EXTRACTED: 2017-05-23 00:00DATA FILE: /chem1/SVOA/GC\_58/170525/b1705253117052531ANALYZED BY: 944D/T ANALYZED: 2017-05-25 19:50COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	85	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	62	25-145	PASS	

**# 2**      CLIENT SAMPLE NUMBER: **DDP-S002**INSTRUMENT: GC 58D/T EXTRACTED: 2017-05-23 00:00DATA FILE: /chem1/SVOA/GC\_58/170525/b1705253217052532ANALYZED BY: 944D/T ANALYZED: 2017-05-25 20:08COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	86	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	61	25-145	PASS	

**# 3**      CLIENT SAMPLE NUMBER: **DDP-S003**INSTRUMENT: GC 58D/T EXTRACTED: 2017-05-23 00:00DATA FILE: /chem1/SVOA/GC\_58/170525/b1705253317052533ANALYZED BY: 944D/T ANALYZED: 2017-05-25 20:26COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	92	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	72	25-145	PASS	

**# 4**      CLIENT SAMPLE NUMBER: **DDP-S004**INSTRUMENT: GC 58D/T EXTRACTED: 2017-05-23 00:00DATA FILE: /chem1/SVOA/GC\_58/170525/b1705253417052534ANALYZED BY: 944D/T ANALYZED: 2017-05-25 20:44COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	83	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	66	25-145	PASS	

**SURROGATE RECOVERIES  
FOR METHOD: EPA 8082**

WORK ORDER: 17-05-1776

BATCH ID:

LCS/MB: 170523L12

MS: 170523S12

EXTRACTION: EPA 3545

REVIEWED BY: 421

D/T REVIEWED: 2017-06-22 13:31

**# 5            CLIENT SAMPLE NUMBER : DDP-S005**

INSTRUMENT: GC 58

D/T EXTRACTED: 2017-05-23 00:00

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705253517052535

ANALYZED BY: 944

D/T ANALYZED 2017-05-25 21:02

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	67	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	55	25-145	PASS	

**# 6            CLIENT SAMPLE NUMBER : DDP-S006**

INSTRUMENT: GC 58

D/T EXTRACTED: 2017-05-23 00:00

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705253617052536

ANALYZED BY: 944

D/T ANALYZED 2017-05-25 21:20

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	88	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	72	25-145	PASS	

**# 7            CLIENT SAMPLE NUMBER : DDP-S007**

INSTRUMENT: GC 58

D/T EXTRACTED: 2017-05-23 00:00

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705253717052537

ANALYZED BY: 944

D/T ANALYZED 2017-05-25 21:38

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	54	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	82	25-145	PASS	

**# 8            CLIENT SAMPLE NUMBER : DDP-S008**

INSTRUMENT: GC 58

D/T EXTRACTED: 2017-05-23 00:00

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705253817052538

ANALYZED BY: 944

D/T ANALYZED 2017-05-25 21:56

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	44	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	44	25-145	PASS	



**SURROGATE RECOVERIES  
FOR METHOD: EPA 8082**

WORK ORDER: 17-05-1776

BATCH ID:

LCS/MB: **170523L12**

MS: **170523S12**

EXTRACTION: EPA 3545

REVIEWED BY: 421

D/T REVIEWED: 2017-06-22 13:31

**# 9**            CLIENT SAMPLE NUMBER: **DDP-S009**

INSTRUMENT: GC 58

D/T EXTRACTED: 2017-05-23 00:00

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705253917052539

ANALYZED BY: 944

D/T ANALYZED 2017-05-25 22:14

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	81	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	61	25-145	PASS	

**# 10**            CLIENT SAMPLE NUMBER: **DDP-S010**

INSTRUMENT: GC 58

D/T EXTRACTED: 2017-05-23 00:00

DATA FILE: /chem1/SVOA/GC\_58/170526/b1705261817052618

ANALYZED BY: 944

D/T ANALYZED 2017-05-26 16:52

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	91	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	75	25-145	PASS	

**# 11**            CLIENT SAMPLE NUMBER: **DDP-S011**

INSTRUMENT: GC 58

D/T EXTRACTED: 2017-05-23 00:00

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705254117052541

ANALYZED BY: 944

D/T ANALYZED 2017-05-25 22:50

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	50	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	68	25-145	PASS	

**# 12**            CLIENT SAMPLE NUMBER: **TP-S001**

INSTRUMENT: GC 58

D/T EXTRACTED: 2017-05-23 00:00

DATA FILE: /chem1/SVOA/GC\_58/170526/b1705261917052619

ANALYZED BY: 944

D/T ANALYZED 2017-05-26 17:10

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	58	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	51	25-145	PASS	

**SURROGATE RECOVERIES  
FOR METHOD: EPA 8082**

WORK ORDER: 17-05-1776

REVIEWED BY: 421

BATCH ID:

D/T REVIEWED: 2017-06-22 13:31

LCS/MB: 170523L12

MS: 170523S12

EXTRACTION: EPA 3545

**# 13            CLIENT SAMPLE NUMBER : TP-S002**

INSTRUMENT: GC 58

ANALYZED BY: 944

D/T EXTRACTED: 2017-05-23 00:00

D/T ANALYZED 2017-05-25 23:25

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705254317052543

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	102	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	68	25-145	PASS	

**# 14            CLIENT SAMPLE NUMBER : TP-S003**

INSTRUMENT: GC 58

ANALYZED BY: 944

D/T EXTRACTED: 2017-05-23 00:00

D/T ANALYZED 2017-05-25 23:43

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705254417052544

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	81	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	60	25-145	PASS	

**# 15            CLIENT SAMPLE NUMBER : TP-S004**

INSTRUMENT: GC 58

ANALYZED BY: 944

D/T EXTRACTED: 2017-05-23 00:00

D/T ANALYZED 2017-05-26 00:01

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705254517052545

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	80	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	65	25-145	PASS	

**# 16            CLIENT SAMPLE NUMBER : TP-S005**

INSTRUMENT: GC 58

ANALYZED BY: 944

D/T EXTRACTED: 2017-05-23 00:00

D/T ANALYZED 2017-05-26 00:19

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705254617052546

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	98	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	79	25-145	PASS	

**SURROGATE RECOVERIES  
FOR METHOD: EPA 8082**

WORK ORDER: 17-05-1776

BATCH ID:

LCS/MB: 170523L12

MS: 170523S12

EXTRACTION: EPA 3545

REVIEWED BY: 421

D/T REVIEWED: 2017-06-22 13:31

**# 17**      CLIENT SAMPLE NUMBER: **TP-S006**

INSTRUMENT: GC 58

D/T EXTRACTED: 2017-05-23 00:00

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705254717052547

ANALYZED BY: 944

D/T ANALYZED 2017-05-26 00:37

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	79	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	55	25-145	PASS	

**# 18**      CLIENT SAMPLE NUMBER: **TP-S007**

INSTRUMENT: GC 58

D/T EXTRACTED: 2017-05-23 00:00

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705254817052548

ANALYZED BY: 944

D/T ANALYZED 2017-05-26 00:55

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	67	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	55	25-145	PASS	

**# 19**      CLIENT SAMPLE NUMBER: **TP-S008**

INSTRUMENT: GC 58

D/T EXTRACTED: 2017-05-23 00:00

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705254917052549

ANALYZED BY: 944

D/T ANALYZED 2017-05-26 01:13

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	86	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	76	25-145	PASS	

**# 20**      CLIENT SAMPLE NUMBER: **TP-S009**

INSTRUMENT: GC 58

D/T EXTRACTED: 2017-05-23 00:00

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705255017052550

ANALYZED BY: 944

D/T ANALYZED 2017-05-26 01:31

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	88	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	54	25-145	PASS	

**SURROGATE RECOVERIES  
FOR METHOD: EPA 8082**

WORK ORDER: 17-05-1776

REVIEWED BY: 27

BATCH ID:

D/T REVIEWED: 2017-05-26 18:15

LCS/MB: 170523L12

MS:

EXTRACTION: EPA 3545

**# MB CLIENT SAMPLE NUMBER : Method Blank**

INSTRUMENT: GC 58

ANALYZED BY: 944

D/T EXTRACTED: 2017-05-23 00:00

D/T ANALYZED 2017-05-25 18:20

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705252617052526

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	109	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	80	25-145	PASS	

**# LCS CLIENT SAMPLE NUMBER : Lab Control Sample**

INSTRUMENT: GC 58

ANALYZED BY: 944

D/T EXTRACTED: 2017-05-23 00:00

D/T ANALYZED 2017-05-25 18:38

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705252717052527

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	80	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	62	25-145	PASS	

**# MS CLIENT SAMPLE NUMBER : Matrix Spike**

INSTRUMENT: GC 58

ANALYZED BY: 944

D/T EXTRACTED: 2017-05-23 00:00

D/T ANALYZED 2017-05-25 18:56

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705252817052528

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	101	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	74	25-145	PASS	

**# MSD CLIENT SAMPLE NUMBER : Matrix Spike Duplicate**

INSTRUMENT: GC 58

ANALYZED BY: 944

D/T EXTRACTED: 2017-05-23 00:00

D/T ANALYZED 2017-05-25 19:14

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705252917052529

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	49	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	34	25-145	PASS	

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052526.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052526.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 18:20  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : MB 170523L12  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 26  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.743	4.740	0.003	5051884316	79.7019	79.7
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260	Compound Not Detected.					
9 Aroclor 1260 (1)	Compound Not Detected.					
10 Aroclor 1260 (2)	Compound Not Detected.					
11 Aroclor 1260 (3)	Compound Not Detected.					
12 Aroclor 1260 (4)	Compound Not Detected.					
13 Aroclor 1260 (5)	Compound Not Detected.					
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052526.d  
 Report Date: 26-May-2017 11:01

Page 2

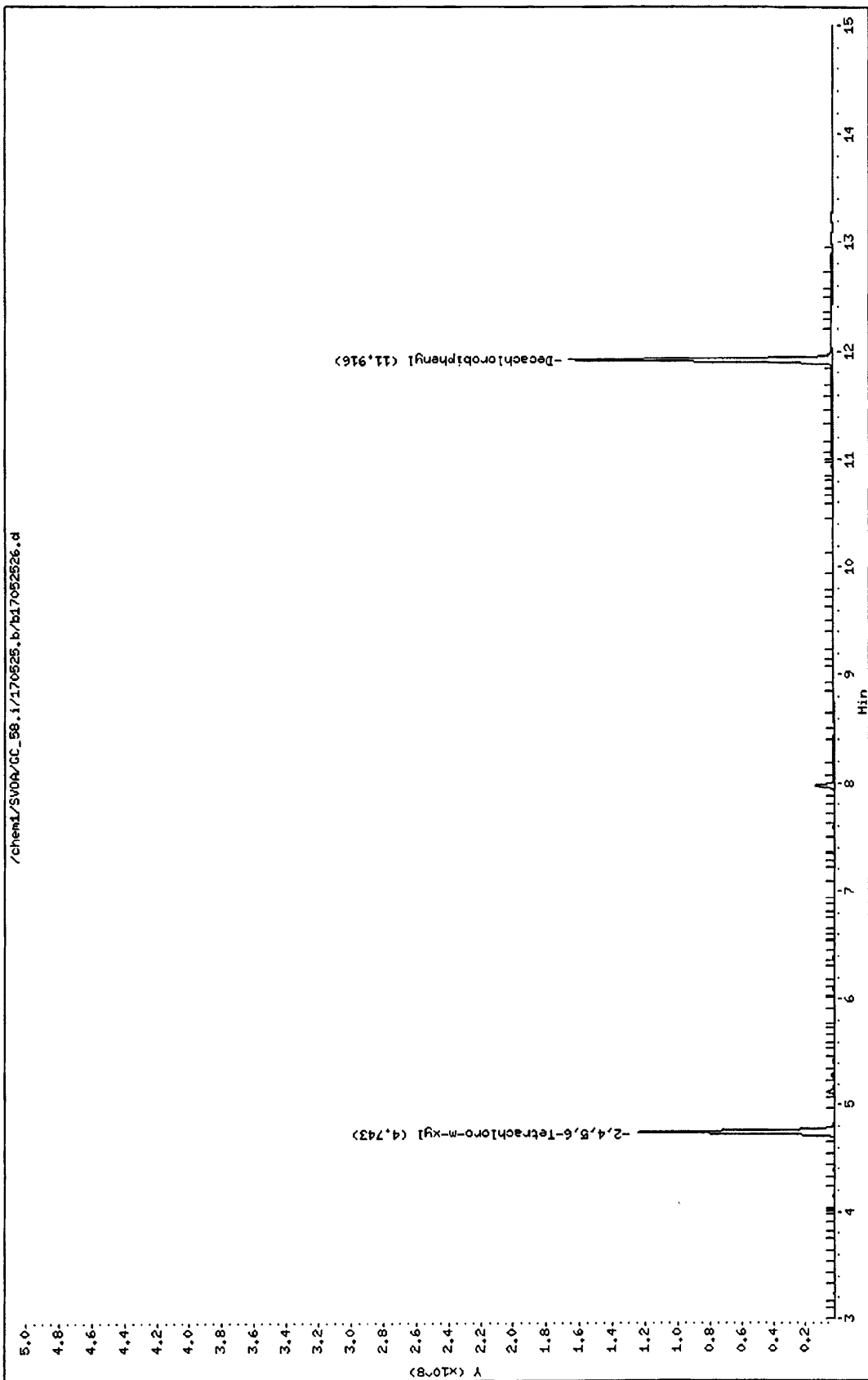
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				Compound Not Detected.		
39 Aroclor 1254 (1)				Compound Not Detected.		
40 Aroclor 1254 (2)				Compound Not Detected.		
41 Aroclor 1254 (3)				Compound Not Detected.		
42 Aroclor 1254 (4)				Compound Not Detected.		
43 Aroclor 1254 (5)				Compound Not Detected.		
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.916	11.920	-0.004	6827233756	109.344	109

Data File: /chem1/SV04/GC\_58.i/170525.b/b17052526.d  
Date: 25-MAY-2017 18:20  
Client ID:  
Sample Info: MB 170523L12

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052527.d  
 Report Date: 26-May-2017 11:01

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052527.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 18:38  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : LCS 170523L12  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 27  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.743	4.740	0.003	3900641030	61.5391	61.5
M 2 Aroclor-1016				1622819547	141.033	141
3 Aroclor 1016 (1)	5.454	5.452	0.002	178525588	158.985	159
4 Aroclor 1016 (2)	5.997	5.996	0.001	290239224	137.909	138
5 Aroclor 1016 (3)	6.581	6.580	0.001	639940169	135.565	136
6 Aroclor 1016 (4)	6.751	6.750	0.001	284485544	143.259	143
7 Aroclor 1016 (5)	6.877	6.877	0.000	229629022	146.000	146
M 8 Aroclor-1260				1782391566	154.493	154
9 Aroclor 1260 (1)	9.056	9.057	-0.001	545289160	158.055	158
10 Aroclor 1260 (2)	9.568	9.570	-0.002	384881260	150.331	150
11 Aroclor 1260 (3)	9.906	9.908	-0.002	430759734	150.284	150
12 Aroclor 1260 (4)	11.076	11.081	-0.005	126460396	156.054	156
13 Aroclor 1260 (5)	11.258	11.264	-0.006	295001016	159.445	159
T 56 Decachlorobiphenyl	11.917	11.920	-0.003	4985913799	79.8540	79.8





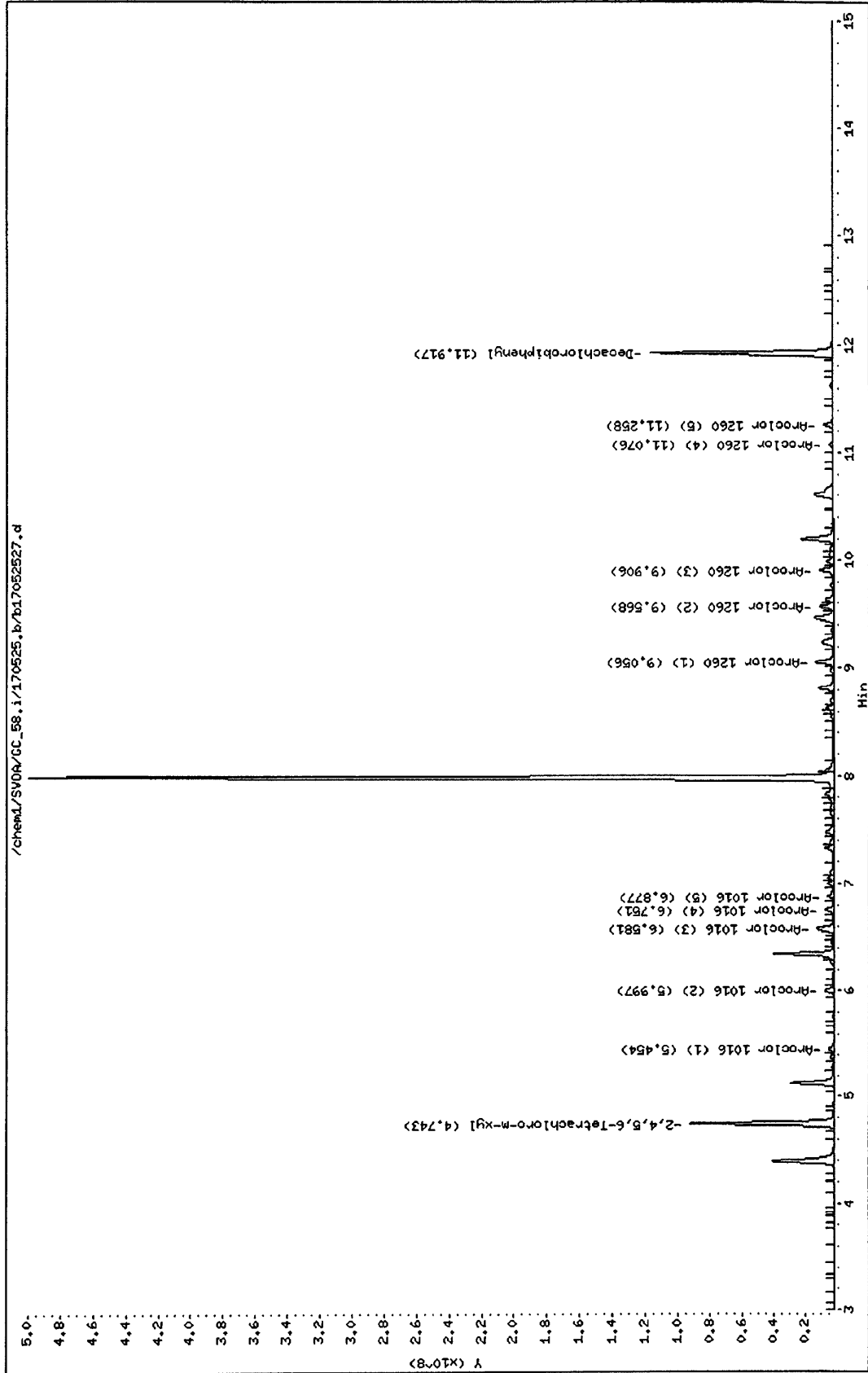
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Date : 25-MAY-2017 18:38  
Client ID:  
Sample Info: LCS 170523112

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052528.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052528.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 18:56  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : MS 17-05-1776-1 170523S12  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 28  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.743	4.740	0.003	4668202163	73.6487	73.6
M 2 Aroclor-1016				1848433031	160.641	161
3 Aroclor 1016 (1)	5.453	5.452	0.001	245555142	218.678	219
4 Aroclor 1016 (2)	5.997	5.996	0.001	349752251	166.187	166
5 Aroclor 1016 (3)	6.580	6.580	0.000	751584257	159.216	159
6 Aroclor 1016 (4)	6.750	6.750	0.000	307626436	154.913	155
7 Aroclor 1016 (5)	6.877	6.877	0.000	193914945	123.293	123
M 8 Aroclor-1260				3327458020	288.415	288
9 Aroclor 1260 (1)	9.054	9.057	-0.003	1164659549	337.583	338
10 Aroclor 1260 (2)	9.568	9.570	-0.002	599430934	234.132	234
11 Aroclor 1260 (3)	9.901	9.908	-0.007	1009424955	352.170	352
12 Aroclor 1260 (4)	11.073	11.081	-0.008	157878364	194.825	195
13 Aroclor 1260 (5)	11.254	11.264	-0.010	396064218	214.069	214
T 56 Decachlorobiphenyl	11.915	11.920	-0.005	6324547754	101.293	101

Data File: /chem1/SVDR/GC\_58.i/170525.b/17052528.d

Date : 25-MAY-2017 18:56

Client ID:

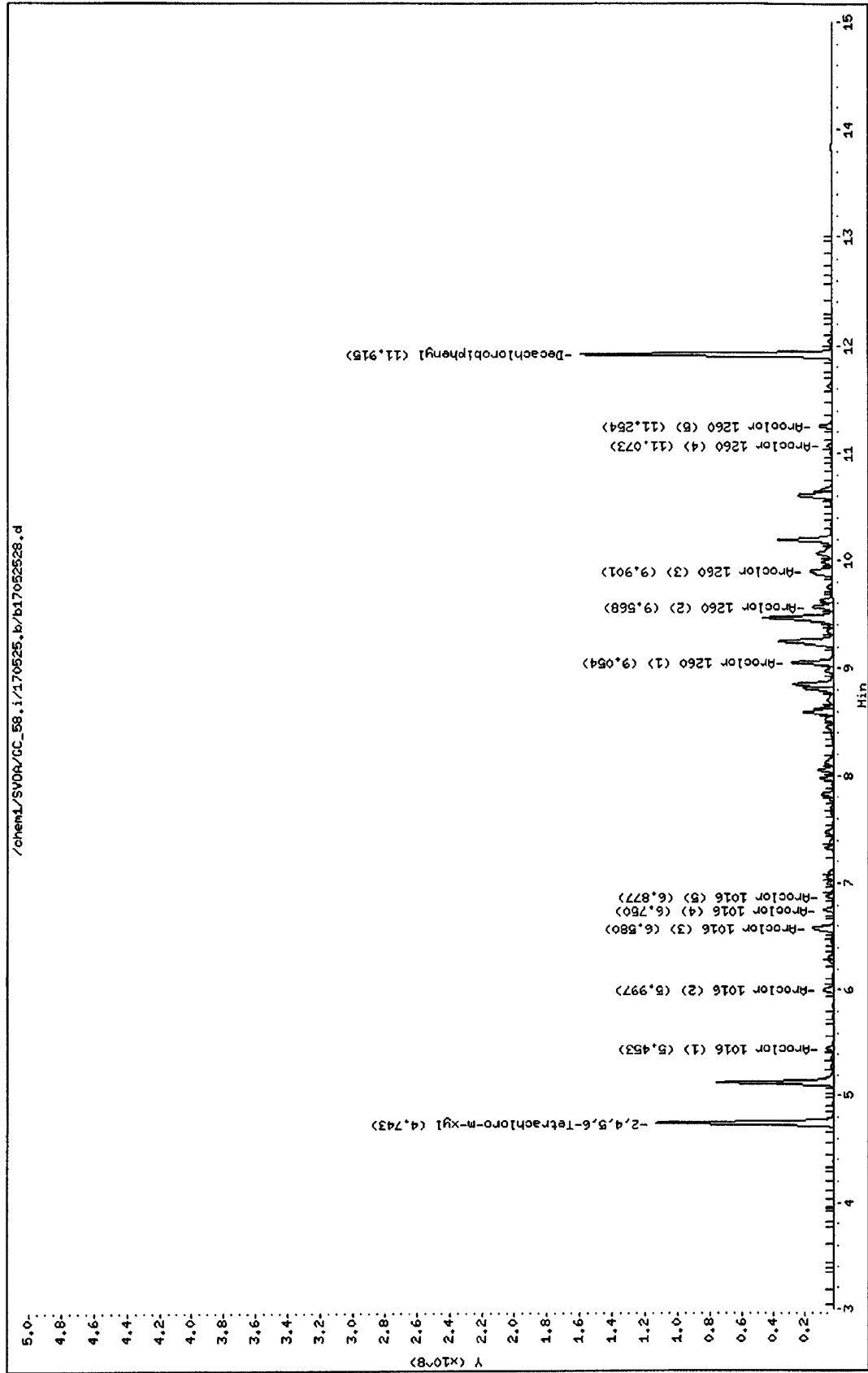
Sample Info: MS 17-05-1776-1 170525S12

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052529.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052529.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 19:14  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : MSD 17-05-1776-1 170523S12  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 29  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.742	4.740	0.002	2137842374	33.7280	33.7
M 2 Aroclor-1016				1065802940	92.6251	92.6 (a)
3 Aroclor 1016 (1)	5.453	5.452	0.001	115887635	103.203	103
4 Aroclor 1016 (2)	6.001	5.996	0.005	265875764	126.333	126
5 Aroclor 1016 (3)	6.581	6.580	0.001	383572478	81.2560	81.2 (a)
6 Aroclor 1016 (4)	6.751	6.750	0.001	164995742	83.0875	83.1 (a)
7 Aroclor 1016 (5)	6.878	6.877	0.001	135471321	86.1337	86.1 (a)
M 8 Aroclor-1260				1785814471	154.790	155
9 Aroclor 1260 (1)	9.055	9.057	-0.002	637790462	184.867	185
10 Aroclor 1260 (2)	9.568	9.570	-0.002	322329223	125.899	126
11 Aroclor 1260 (3)	9.902	9.908	-0.006	524847260	183.110	183
12 Aroclor 1260 (4)	11.073	11.081	-0.008	88449432	109.148	109
13 Aroclor 1260 (5)	11.254	11.264	-0.010	212398094	114.799	115
T 56 Decachlorobiphenyl	11.915	11.920	-0.005	3081915896	49.3597	49.4

QC Flag Legend

a - Target compound detected but, quantitated amount  
 Below Limit Of Quantitation(BLOQ).



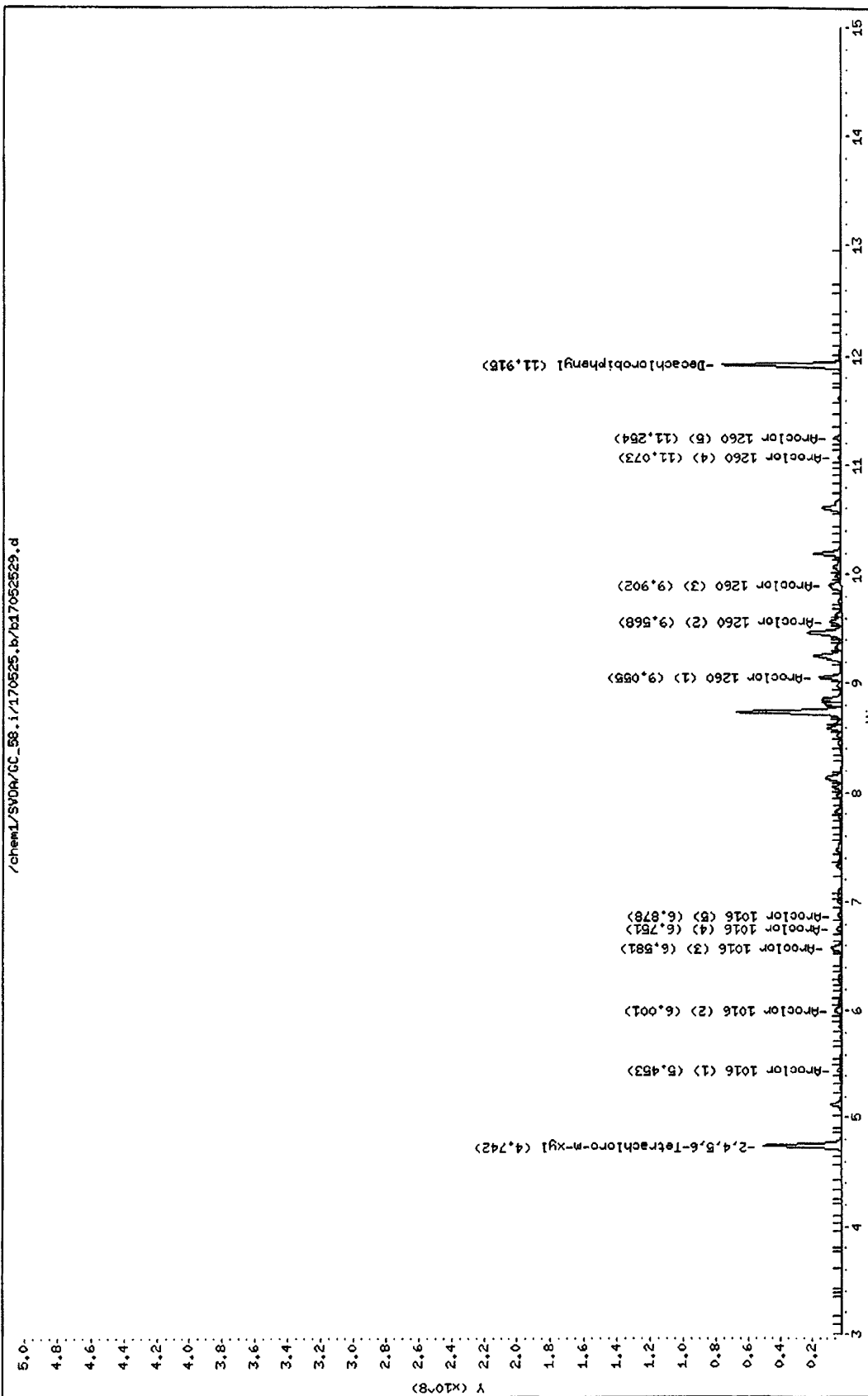
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 Date : 25-MAY-2017 19:14  
 Client ID:  
 Sample Info: MSD 17-05-1776-1 170523S12

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



METHOD BLANK ASSOCIATION SUMMARY  
FOR METHOD: EPA 8082

MB SAMPLE ID: 099-15-959-200  
MB BATCH ID: 170523L13  
INSTRUMENT: GC 31  
EXTRACTION: EPA 3545  
D/T EXTRACTED: 2017-05-23 00:00

ANALYZED BY: 944  
D/T ANALYZED: 2017-05-25 10:42  
REVIEWED BY:  
D/T REVIEWED:  
MATRIX: Soil

DATA FILE: /chem1/SVOA/GC\_31/170525/b1705250717052507

**CLIENT WORK ORDER: 17-05-1776**

<u>S#</u>	<u>RUN TYPE</u>	<u>CLIENT SAMPLE ID</u>	<u>D/T ANALYZED</u>	<u>DATA FILE</u>
21	TP-S010		2017-05-25 11:37	/chem1/SVOA/GC_31/170525/b1705251017052510
22	TP-S011		2017-05-25 11:56	/chem1/SVOA/GC_31/170525/b1705251117052511

# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 099-15-959  
**INSTRUMENT:** GC 31  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 10:42  
**REVIEWED BY:** *M*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_31/170525/b1705250717052507

**# MB**                      **CLIENT SAMPLE NUMBER: Method Blank**

**LCS/MB BATCH:** 170523L13                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.00 g  
**MS/MSD BATCH:**                                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg    **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	0.000	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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**LCS QUALITY CONTROL SHEET  
FOR METHOD: EPA 8082**

**LCS SAMPLE ID:** 099-15-959- 200  
**LCS/MB BATCH ID:** 170523L13  
**INSTRUMENT:** GC 31

**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 11:00  
**REVIEWED BY:** *M*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_31/170525/b1705250817052508

<u>COMPOUND NAME</u>	<u>CONC ADDED</u>	<u>CONC REC</u>	<u>%RECOVERY</u>	<u>%REC CONTROL LIMIT</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Aroclor-1016	100.0	112.0	112	50-135	PASS	
Aroclor-1260	100.0	117.0	117	50-135	PASS	



# MATRIX SPIKE / MATRIX SPIKE DUPLICATE QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**SPIKED SAMPLE ID:** 17-05-1776-22  
**MS/MSD BATCH:** 170523S13  
**INSTRUMENTS:**  
 SAMPLE: GC 31  
 MS: GC 31  
 MSD: GC 31

**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:**  
 SAMPLE: 2017-05-23 00:00  
 MS: 2017-05-23 00:00  
 MSD: 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:**  
 SAMPLE: 2017-05-25 11:56  
 MS: 2017-05-25 12:15  
 MSD: 2017-05-25 12:34

**REVIEWED BY:**  
**D/T REVIEWED:**

**COMMENT:**

COMPOUND NAME	SAMPLE	INITIAL	FINAL	MS CONC	% MS.REC	MSD CONC	% MSD.REC	% REC.CL	RPD	RPD.CL	STATUS	QUALIFIERS
Aroclor-1016	ND	200.0	100.0	66.34	66	67.50	68	50-135	2	0-20	PASS	
<b>Aroclor-1260</b>	<b>517.4</b>	<b>200.0</b>	<b>100.0</b>	<b>274.8</b>	<b>0</b>	<b>269.5</b>	<b>0</b>	<b>50-135</b>	<b>2</b>	<b>0-25</b>	<b>FAIL</b>	<b>3G</b>

**Data Files:**

TYPE	DATA FILE	DATA FILE PATH
MS	17052512	/chem1/SVOA/GC_31/170525/b17052512
MSD	17052513	/chem1/SVOA/GC_31/170525/b17052513

## SURROGATE RECOVERIES FOR METHOD: EPA 8082

WORK ORDER: 17-05-1776

BATCH ID:

LCS/MB: 170523L13MS: 170523S13

EXTRACTION: EPA 3545

REVIEWED BY: 421

D/T REVIEWED: 2017-06-22 13:31

**# 21**      CLIENT SAMPLE NUMBER : TP-S010INSTRUMENT: GC 31D/T EXTRACTED: 2017-05-23 00:00DATA FILE: /chem1/SVOA/GC\_31/170525/b1705251017052510ANALYZED BY: 944D/T ANALYZED 2017-05-25 11:37COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	111	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	101	25-145	PASS	

**# 22**      CLIENT SAMPLE NUMBER : TP-S011INSTRUMENT: GC 31D/T EXTRACTED: 2017-05-23 00:00DATA FILE: /chem1/SVOA/GC\_31/170525/b1705251117052511ANALYZED BY: 944D/T ANALYZED 2017-05-25 11:56COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	121	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	91	25-145	PASS	

**# MB**      CLIENT SAMPLE NUMBER : Method BlankINSTRUMENT: GC 31D/T EXTRACTED: 2017-05-23 00:00DATA FILE: /chem1/SVOA/GC\_31/170525/b1705250717052507ANALYZED BY: 944D/T ANALYZED 2017-05-25 10:42COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	113	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	89	25-145	PASS	

**# LCS**      CLIENT SAMPLE NUMBER : Lab Control SampleINSTRUMENT: GC 31D/T EXTRACTED: 2017-05-23 00:00DATA FILE: /chem1/SVOA/GC\_31/170525/b1705250817052508ANALYZED BY: 944D/T ANALYZED 2017-05-25 11:00COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	125	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	107	25-145	PASS	

**SURROGATE RECOVERIES  
FOR METHOD: EPA 8082**

WORK ORDER: 17-05-1776

BATCH ID:

LCS/MB:

MS: 170523S13

EXTRACTION: EPA 3545

REVIEWED BY: 421

D/T REVIEWED: 2017-06-22 13:31

# MS      CLIENT SAMPLE NUMBER: Matrix Spike

INSTRUMENT: GC 31

D/T EXTRACTED: 2017-05-23 00:00

DATA FILE: /chem1/SVOA/GC\_31/170525/b1705251217052512

ANALYZED BY: 944

D/T ANALYZED 2017-05-25 12:15

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	64	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	54	25-145	PASS	

# MSD      CLIENT SAMPLE NUMBER: Matrix Spike Duplicate

INSTRUMENT: GC 31

D/T EXTRACTED: 2017-05-23 00:00

DATA FILE: /chem1/SVOA/GC\_31/170525/b1705251317052513

ANALYZED BY: 944

D/T ANALYZED 2017-05-25 12:34

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	64	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	53	25-145	PASS	

Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052507.d  
 Report Date: 25-May-2017 11:21

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Eurofins Calscience

EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170525.b/b17052507.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 10:42  
 Operator : 944  
 Smp Info : MB 170523L13  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170525.b/b8082-n2.m  
 Meth Date : 25-May-2017 11:21 src3  
 Cal Date : 19-MAY-2017 14:44  
 Als bottle: 7  
 Dil Factor: 1.00000  
 Integrator: HP Genie  
 Target Version: 3.50  
 Processing Host: US26TAR4

Inst ID: GC\_31.i

Quant Type: ESTD

Cal File: b17051910.d

Compound Sublist: all.sub

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL ( ug/L)
S 1 2,4,5,6-Tetrachloro-m-xylene	4.958	4.953	0.005	8958357156	88.9872	89.0
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260	Compound Not Detected.					
9 Aroclor 1260 (1)	Compound Not Detected.					
10 Aroclor 1260 (2)	Compound Not Detected.					
11 Aroclor 1260 (3)	Compound Not Detected.					
12 Aroclor 1260 (4)	Compound Not Detected.					
13 Aroclor 1260 (5)	Compound Not Detected.					
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					

Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052507.d  
 Report Date: 25-May-2017 11:21

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL ( ug/L)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				Compound Not Detected.		
39 Aroclor 1254 (1)				Compound Not Detected.		
40 Aroclor 1254 (2)				Compound Not Detected.		
41 Aroclor 1254 (3)				Compound Not Detected.		
42 Aroclor 1254 (4)				Compound Not Detected.		
43 Aroclor 1254 (5)				Compound Not Detected.		
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
\$ 56 Decachlorobiphenyl	11.606	11.603	0.003	11527296098	113.389	113

Data File: /chem1/SV06/GC\_31.i/170525.b/b17052507.d

Date : 25-MAY-2017 10:42

Client ID:

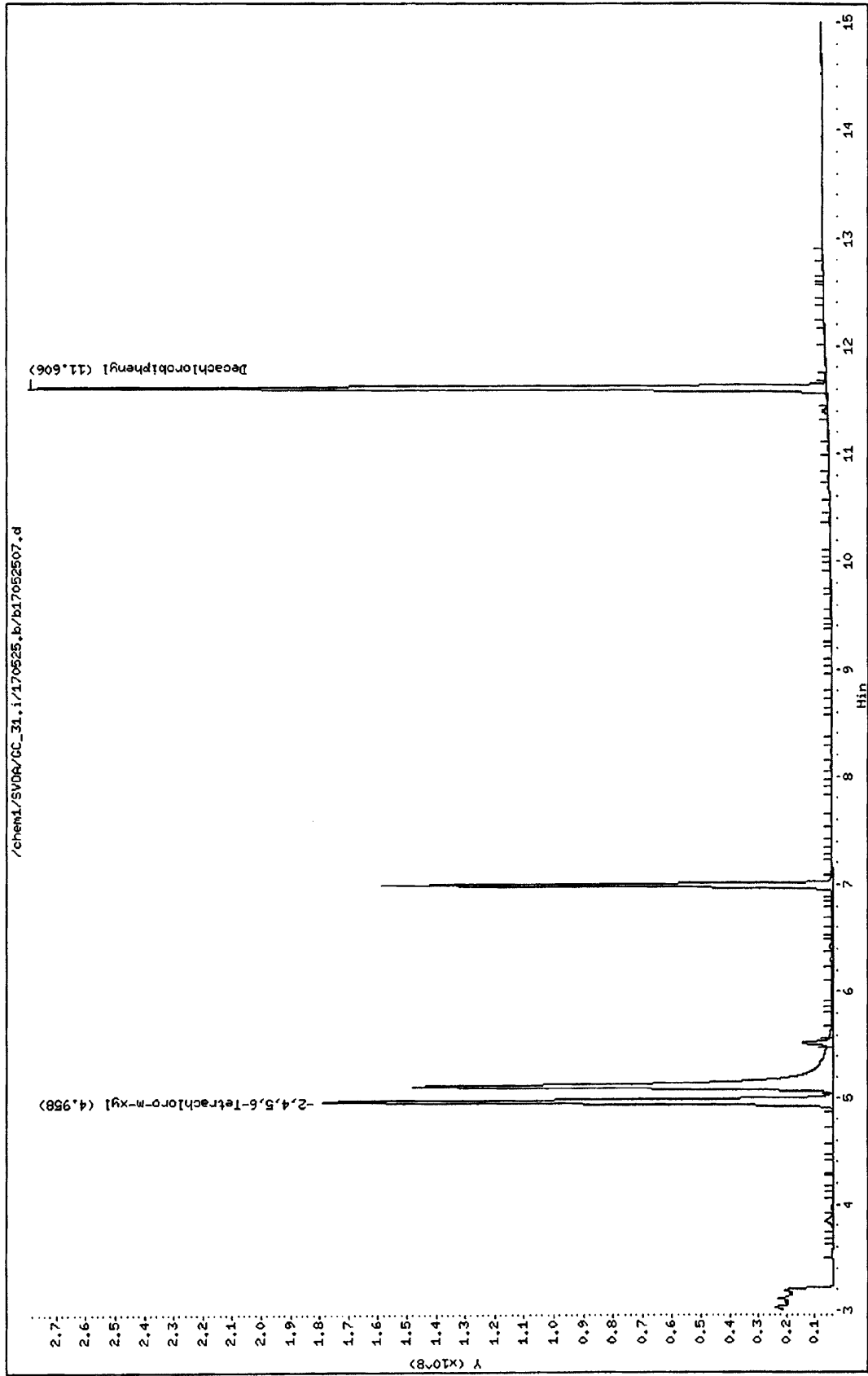
Sample Info: MB 170523L13

Instrument: GC\_31.i

Operator: 944

Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052508.d  
 Report Date: 25-May-2017 11:25

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Eurofins Calscience

EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170525.b/b17052508.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 11:00  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : LCS 170523L13  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170525.b/b8082-n2.m  
 Meth Date : 25-May-2017 11:21 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 8  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL ( ug/L)
§ 1 2,4,5,6-Tetrachloro-m-xylene	4.956	4.953	0.003	10795675379	107.238	107
M 2 Aroclor-1016				3909827613	223.603	224
3 Aroclor 1016 (1)	5.485	5.480	0.005	398961336	226.660	227
4 Aroclor 1016 (2)	5.968	5.964	0.004	716527688	224.174	224
5 Aroclor 1016 (3)	6.574	6.571	0.003	1646171587	222.247	222
6 Aroclor 1016 (4)	6.742	6.739	0.003	696984806	221.287	221
7 Aroclor 1016 (5)	6.821	6.818	0.003	451182193	228.743	229
M 8 Aroclor-1260				6146045389	234.155	234
9 Aroclor 1260 (1)	8.993	8.991	0.002	2136915011	238.342	238
10 Aroclor 1260 (2)	9.439	9.438	0.001	1472806658	221.509	222
11 Aroclor 1260 (3)	9.718	9.717	0.001	1236895119	227.287	227
12 Aroclor 1260 (4)	10.790	10.788	0.002	434544503	222.849	223
13 Aroclor 1260 (5)	11.075	11.074	0.001	864884096	266.852	267
§ 56 Decachlorobiphenyl	11.604	11.603	0.001	12699273743	124.918	125

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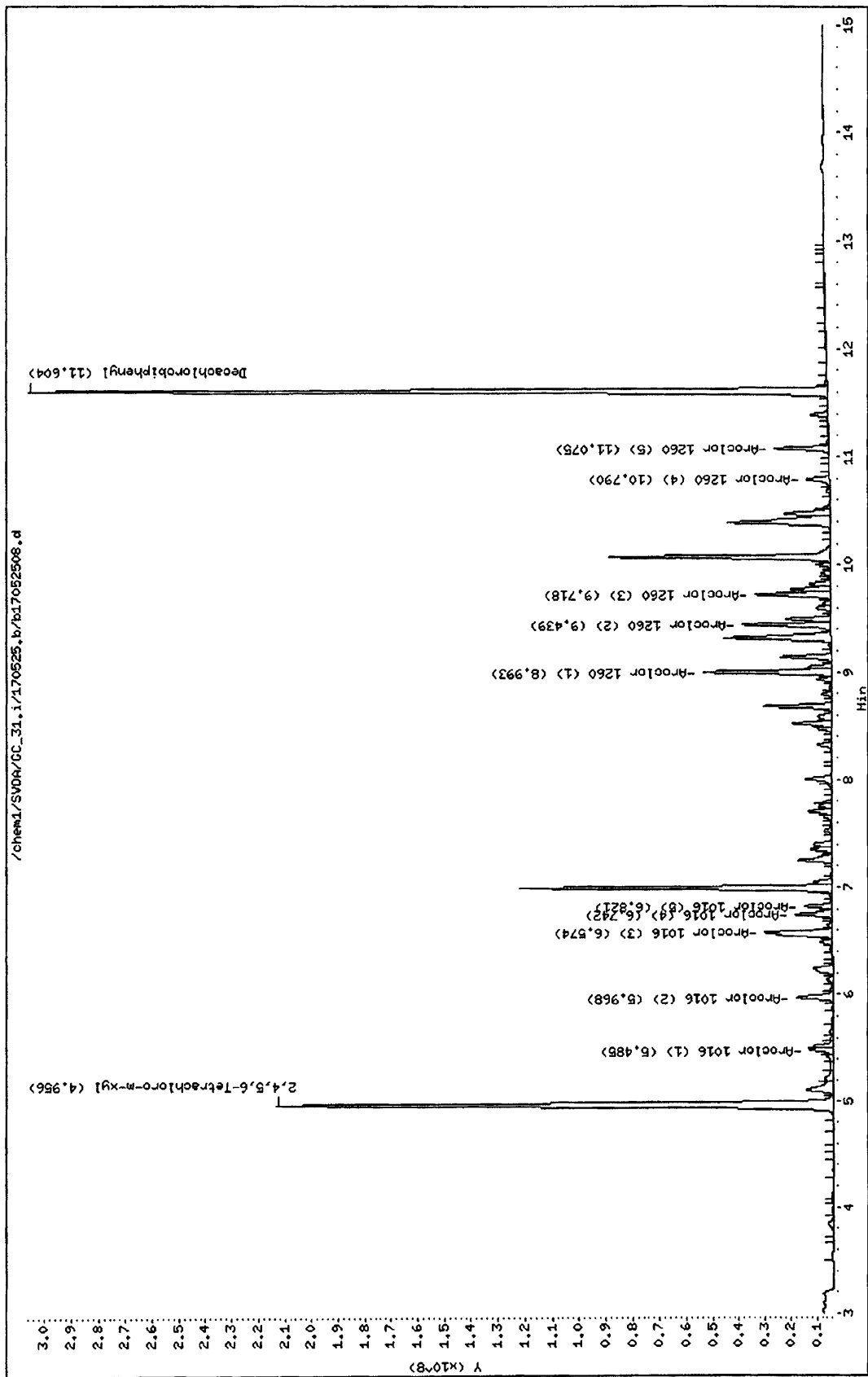
Data File: /chem1/SVDA/CC\_31.i/170525.b/b17052508.d  
Date : 25-MAY-2017 11:00  
Client ID:  
Sample Info: LCS 170523L13

Instrument: GC\_31.i

Operator: 944

Column diameter: 2.00

Column phase:





Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052512.d  
 Report Date: 25-May-2017 12:39

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EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170525.b/b17052512.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 12:15  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : MS 17-05-1776-22  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170525.b/b8082-n2.m  
 Meth Date : 25-May-2017 11:21 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 12  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

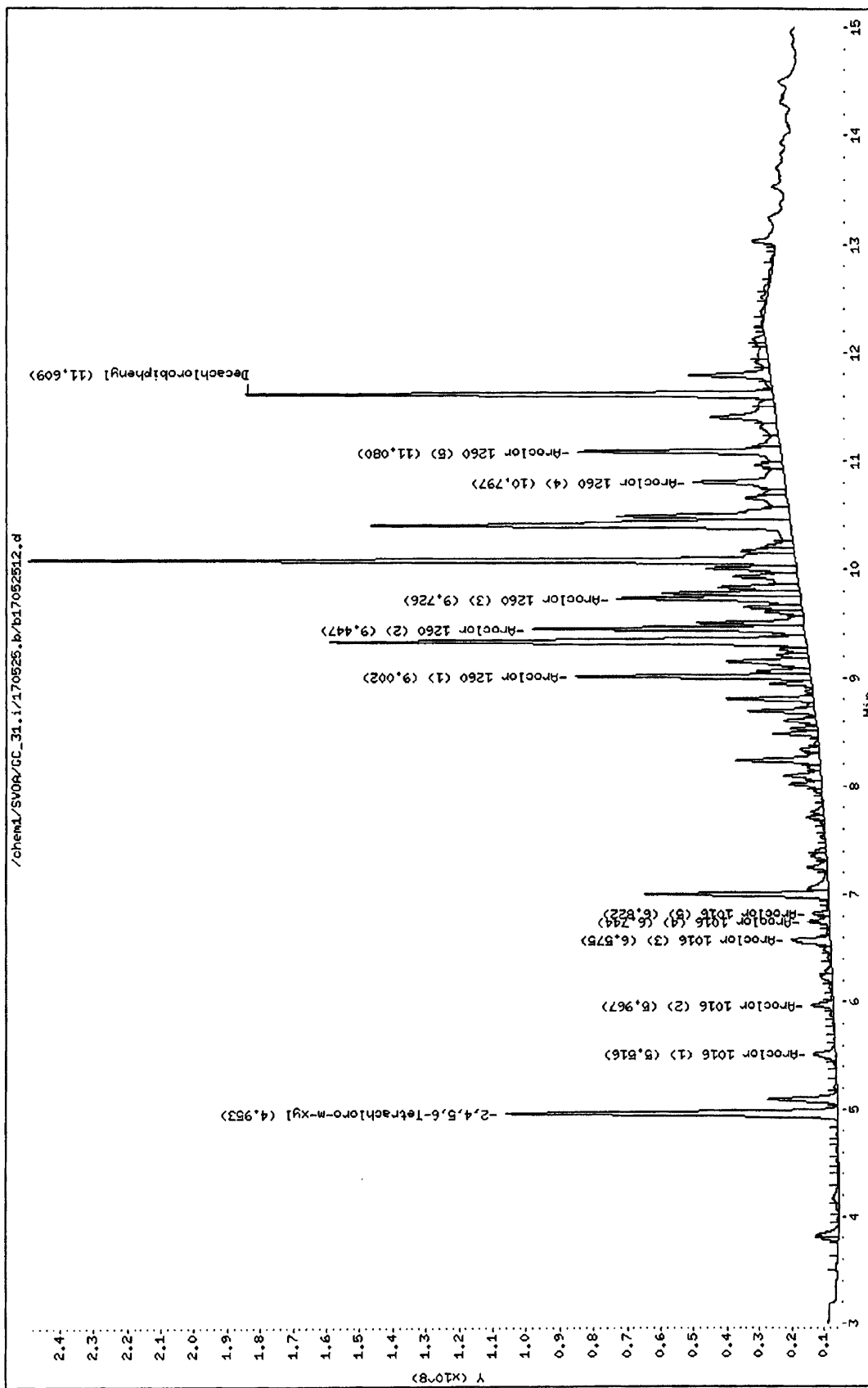
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL ( ug/L)
\$ 1 2,4,5,6-Tetrachloro-m-xylene	4.953	4.953	0.000	5388869366	53.5299	53.5
M 2 Aroclor-1016				2346191426	134.179	134
3 Aroclor 1016 (1)	5.516	5.480	0.036	545999751	310.196	310
4 Aroclor 1016 (2)	5.967	5.964	0.003	381862229	119.470	119
5 Aroclor 1016 (3)	6.575	6.571	0.004	822436756	111.036	111
6 Aroclor 1016 (4)	6.744	6.739	0.005	359258983	114.062	114
7 Aroclor 1016 (5)	6.822	6.818	0.004	236633704	119.970	120
M 8 Aroclor-1260				14562335801	554.804	555
9 Aroclor 1260 (1)	9.002	8.991	0.011	2997625508	334.342	334
10 Aroclor 1260 (2)	9.447	9.438	0.009	3663843666	551.039	551
11 Aroclor 1260 (3)	9.726	9.717	0.009	2560046100	470.424	470
12 Aroclor 1260 (4)	10.797	10.788	0.009	2266171735	1162.17	1160
13 Aroclor 1260 (5)	11.080	11.074	0.006	3074648791	948.655	949
\$ 56 Decachlorobiphenyl	11.609	11.603	0.006	6507620989	64.0128	64.0



Data File: /chem1/SV0A/GC\_31.i/170525.b/b17052512.d  
Date : 25-MAY-2017 12:15  
Client ID:  
Sample Info: MS 17-05-1776-22

Instrument: GC\_31.i  
Operator: 944  
Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052513.d  
 Report Date: 25-May-2017 12:57

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EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170525.b/b17052513.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 12:34  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : MSD17-05-1776-22  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170525.b/b8082-n2.m  
 Meth Date : 25-May-2017 11:21 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 13  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

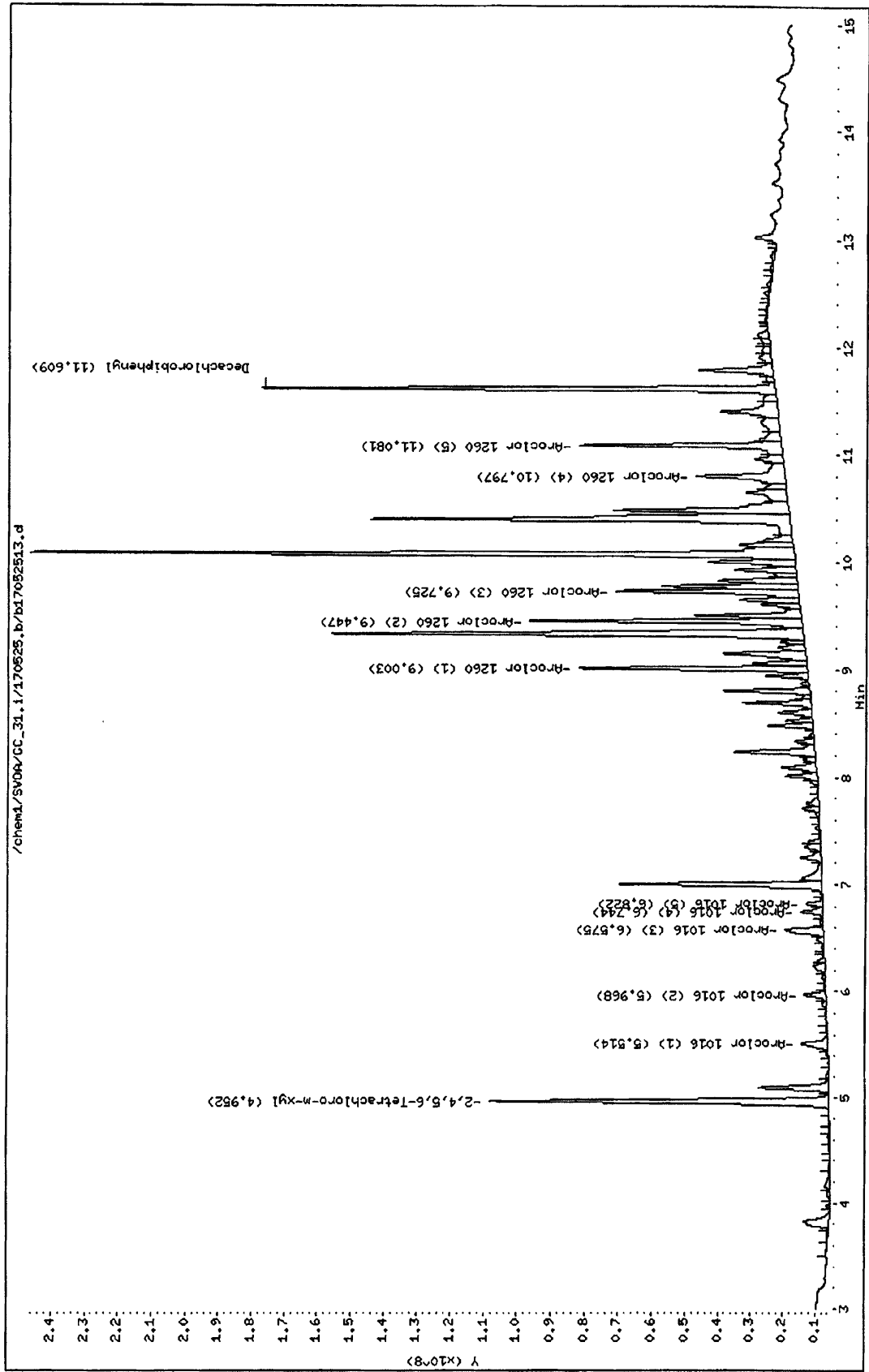
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL ( ug/L)
\$ 1 2,4,5,6-Tetrachloro-m-xylene	4.952	4.953	-0.001	5300187073	52.6490	52.6
M 2 Aroclor-1016				2366333267	135.331	135
3 Aroclor 1016 (1)	5.514	5.480	0.034	594573660	337.792	338
4 Aroclor 1016 (2)	5.968	5.964	0.004	367008278	114.823	115
5 Aroclor 1016 (3)	6.575	6.571	0.004	803697611	108.506	108
6 Aroclor 1016 (4)	6.744	6.739	0.005	357930942	113.640	114
7 Aroclor 1016 (5)	6.822	6.818	0.004	243122774	123.260	123
M 8 Aroclor-1260				14155716220	539.312	539
9 Aroclor 1260 (1)	9.003	8.991	0.012	2979570905	332.329	332
10 Aroclor 1260 (2)	9.447	9.438	0.009	3641906900	547.739	548
11 Aroclor 1260 (3)	9.725	9.717	0.008	2528826200	464.687	465
12 Aroclor 1260 (4)	10.797	10.788	0.009	2099062804	1076.47	1080
13 Aroclor 1260 (5)	11.081	11.074	0.007	2906349412	896.727	897
\$ 56 Decachlorobiphenyl	11.609	11.603	0.006	6492600780	63.8650	63.9



Data File: /chem1/SV0A/GC\_31.i/170525.b/b17052513.d  
Date: 25-MAY-2017 12:34  
Client ID:  
Sample Info: MSD17-05-1776-22

Instrument: GC\_31.i  
Operator: 944  
Column diameter: 2.00

Column phase:



# EPA METHOD 8082 PCB

## Continuing Calibration

CCV ASSOCIATION SUMMARY  
FOR METHOD: EPA 8082

BATCH ID: 170525A003  
INSTRUMENT: GC 31

ANALYZED BY: 944

WORK ORDER: 099-15-958  
MATRIX: Soil

REVIEWED BY: 27  
D/T REVIEWED: 2017-05-25 13:27

<u>CEL SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>D/T ANALYZED</u>	<u>DATA FILE</u>
424	Daily Calibration	2017-05-25 09:27	/chem1/SVOA/GC_31/170525/b1705250117052501

WORK ORDER: 17-05-1776  
MATRIX: Soil

REVIEWED BY: 27  
D/T REVIEWED: 2017-05-26 18:21

<u>CEL SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>D/T ANALYZED</u>	<u>DATA FILE</u>
21	TP-S010	2017-05-25 11:37	/chem1/SVOA/GC_31/170525/b1705251017052510
22	TP-S011	2017-05-25 11:56	/chem1/SVOA/GC_31/170525/b1705251117052511
22	TP-S011	2017-05-25 12:15	/chem1/SVOA/GC_31/170525/b1705251217052512
22	TP-S011	2017-05-25 12:34	/chem1/SVOA/GC_31/170525/b1705251317052513

# CONTINUING CALIBRATION VERIFICATION QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**CCV WORK ORDER:** 099-15-958-424-6572

**ANALYZED BY:** 944

**BATCH ID:**

**D/T ANALYZED:**

170519I001

2017-05-19 11:53

170525A003

**INITIAL:**

2017-05-25 09:27

**INSTRUMENT:**

**REVIEWED BY:**

M

GC 31

**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_31/170525/b1705250117052501

<u>COMPOUND NAME</u>	<u>TYPE</u>	<u>CALIB MODEL</u>	<u>MIN RF</u>	<u>AVG RF</u>	<u>CCV RF</u>	<u>AMOUNT</u>	<u>CCV CONC</u>	<u>CCV %D</u>	<u>CCV %D CL</u>	<u>STATUS</u>
Aroclor-1016	C	Avg Resp	0.00	17485545.465	16992767.536			3	0-15	PASS
Aroclor-1260	C	Avg Resp	0.00	26247714.113	26399545.682			-1	0-15	PASS

MIN RF: Method Specified Minimum Response Factor



Return to Contents

Data File: /chem1/SVOA/GC\_31.1/170525.b/b17052501.d  
 Report Date: 05/25/2017 11:21

Eurofins CalScience  
 Calibration Verification Report

Instrument ID: GC\_31.1                      Injection Date and Time: 25-MAY-2017 09:27  
 Sample Name: PCB CCV P051717I            Initial Calibration Date(s): 20-FEB-2017 19-MAY-2017  
 Sublist used: p1016\_1260.sub            Initial Calibration Time(s): 15:04 14:44  
 Method used: /chem1/SVOA/GC\_31.1/170525.b/b8082-n2.m

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
Aroclor-1016	17485545.466	16992767.537	0.01	3	15	Averaged
Aroclor 1016 (1)	1760177.318	1712561.772	0.01	3	15	Averaged
Aroclor 1016 (2)	3196299.334	3093153.040	0.01	3	15	Averaged
Aroclor 1016 (3)	7406941.175	7197695.803	0.01	3	15	Averaged
Aroclor 1016 (4)	3149683.514	3072176.812	0.01	2	15	Averaged
Aroclor 1016 (5)	1972444.125	1917180.110	0.01	3	15	Averaged
Aroclor 1260 (4)	1949946.445	1901571.772	0.01	2	15	Averaged
Aroclor-1260	26247714.113	26399545.683	0.01	-1	15	Averaged
Aroclor 1260 (5)	3241062.132	3656764.232	0.01	-13	15	Averaged
Aroclor 1260 (1)	8965734.278	8820849.281	0.01	2	15	Averaged
Aroclor 1260 (2)	6648976.710	6614844.999	0.01	1	15	Averaged
Aroclor 1260 (3)	5441994.549	5405515.400	0.01	1	15	Averaged
Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
2,4,5,6-Tetrachloro-m-xylene	100670174.518	102106246.669	0.01	-1	15	Averaged
Decachlorobiphenyl	101661251.558	114559133.537	0.01	-13	15	Averaged

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Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052501.d  
 Report Date: 25-May-2017 11:21

Page 1

Eurofins Calscience

EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170525.b/b17052501.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 09:27  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : PCB CCV P051717I  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170525.b/b8082-n2.m  
 Meth Date : 25-May-2017 11:21 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 1 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
\$ 1 2,4,5,6-Tetrachloro-m-xylene	4.953	4.953	0.000	10210624667	100.000	101
M 2 Aroclor-1016				8496383768	500.000	486
3 Aroclor 1016 (1)	5.480	5.480	0.000	856280886	500.000	486
4 Aroclor 1016 (2)	5.964	5.964	0.000	1546576520	500.000	484
5 Aroclor 1016 (3)	6.571	6.571	0.000	3598847901	500.000	486
6 Aroclor 1016 (4)	6.739	6.739	0.000	1536088406	500.000	488
7 Aroclor 1016 (5)	6.818	6.818	0.000	958590055	500.000	486
M 8 Aroclor-1260				13199772841	500.000	503
9 Aroclor 1260 (1)	8.991	8.991	0.000	4410424640	500.000	492
10 Aroclor 1260 (2)	9.438	9.438	0.000	3307422499	500.000	497
11 Aroclor 1260 (3)	9.717	9.717	0.000	2702757700	500.000	497
12 Aroclor 1260 (4)	10.788	10.788	0.000	950785886	500.000	488
13 Aroclor 1260 (5)	11.074	11.074	0.000	1828382116	500.000	564
\$ 56 Decachlorobiphenyl	11.603	11.603	0.000	11455913354	100.000	113



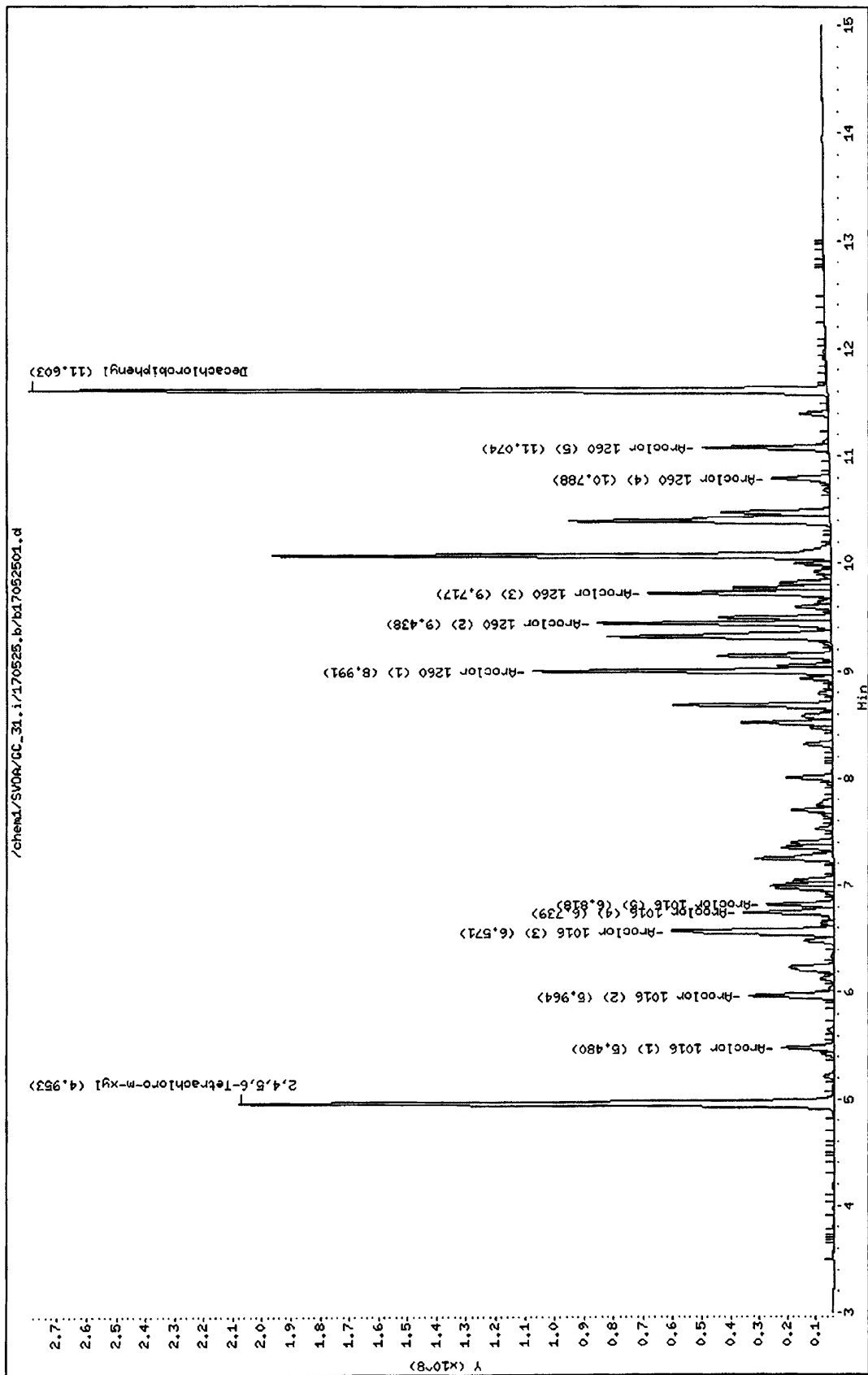
Data File: /chem1/SV04/CC\_31.i/170525.b/k17052501.d  
Date : 25-MAY-2017 09:27  
Client ID:  
Sample Info: PCB CCV P0517171

Instrument: GC\_31.i

Operator: 944

Column diameter: 2.00

Column phase:



**CONTINUING CALIBRATION VERIFICATION QUALITY CONTROL SHEET  
FOR METHOD: EPA 8082**

**CCV WORK ORDER:** 099-15-958-425-6572

**BATCH ID:**

170519I001  
170525A004  
GC 31

**ANALYZED BY:** 944

**D/T ANALYZED:**

INITIAL: 2017-05-19 11:53  
CCV: 2017-05-25 17:14  
REVIEWED BY: 27  
D/T REVIEWED: 2017-05-26 10:47

**DATA FILE:** /chem1/SVOA/GC\_31/170525/b1705252117052521

<u>COMPOUND NAME</u>	<u>TYPE</u>	<u>CALIB MODEL</u>	<u>MIN RF</u>	<u>AVG RF</u>	<u>CCV RF</u>	<u>AMOUNT</u>	<u>CCV CONC</u>	<u>CCV %D</u>	<u>CCV %D CL</u>	<u>STATUS</u>
Aroclor-1016	C	Avg Resp	0.00	17485545.465	16827878.792			4	0-15	PASS
Aroclor-1260	C	Avg Resp	0.00	26247714.113	25149068.442			4	0-15	PASS

MIN RF: Method Specified Minimum Response Factor

Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052521.d  
 Report Date: 05/26/2017 09:41

Eurofins CalScience  
 Calibration Verification Report

Instrument ID: GC\_31.i Injection Date and Time: 25-MAY-2017 17:14  
 Sample Name: PCB CCV P051717I Initial Calibration Date(s): 20-FEB-2017 19-MAY-2017  
 Sublist used: p1016\_1260.sub Initial Calibration Time(s): 15:04 14:44  
 Method used: /chem1/SVOA/GC\_31.i/170525.b/b8082-n2.m

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
Aroclor-1016	17485545.466	16827878.792	0.01	4	15	Averaged
Aroclor 1016 (1)	1760177.318	1698300.828	0.01	4	15	Averaged
Aroclor 1016 (2)	3196299.334	3083519.994	0.01	4	15	Averaged
Aroclor 1016 (3)	7406941.175	7135083.308	0.01	4	15	Averaged
Aroclor 1016 (4)	3149683.514	3033806.484	0.01	4	15	Averaged
Aroclor 1016 (5)	1972444.125	1877168.178	0.01	5	15	Averaged
Aroclor 1260 (4)	1949946.445	1709894.256	0.01	12	15	Averaged
Aroclor-1260	26247714.113	25149068.442	0.01	4	15	Averaged
Aroclor 1260 (5)	3241062.132	3281133.264	0.01	-1	15	Averaged
Aroclor 1260 (1)	8965734.278	8592332.191	0.01	4	15	Averaged
Aroclor 1260 (2)	6648976.710	6394693.223	0.01	4	15	Averaged
Aroclor 1260 (3)	5441994.549	5171015.509	0.01	5	15	Averaged
Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
2,4,5,6-Tetrachloro-m-xylene	100670174.518	101989895.172	0.01	-1	15	Averaged
Decachlorobiphenyl	101661251.558	97239081.578	0.01	4	15	Averaged

Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052521.d  
 Report Date: 26-May-2017 09:40

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Eurofins Calscience

EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170525.b/b17052521.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 17:14  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : PCB CCV P051717I  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 09:40 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 21 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RT	RESPONSE	AMOUNTS	
						CAL-AMT ( ppb)	ON-COL ( ppb)
\$ 1 2,4,5,6-Tetrachloro-m-xylene	4.951	4.951	0.000	10198989517	100.000	101	
M 2 Aroclor-1016				8413939396	500.000	481	
3 Aroclor 1016 (1)	5.480	5.480	0.000	849150414	500.000	482	
4 Aroclor 1016 (2)	5.965	5.965	0.000	1541759997	500.000	482	
5 Aroclor 1016 (3)	6.573	6.573	0.000	3567541654	500.000	482	
6 Aroclor 1016 (4)	6.741	6.741	0.000	1516903242	500.000	482	
7 Aroclor 1016 (5)	6.819	6.819	0.000	938584089	500.000	476	
M 8 Aroclor-1260				12574534221	500.000	479	
9 Aroclor 1260 (1)	8.994	8.994	0.000	4296166095	500.000	479	
10 Aroclor 1260 (2)	9.440	9.440	0.000	3197346611	500.000	481	
11 Aroclor 1260 (3)	9.720	9.720	0.000	2585507754	500.000	475	
12 Aroclor 1260 (4)	10.789	10.789	0.000	854947128	500.000	438	
13 Aroclor 1260 (5)	11.076	11.076	0.000	1640566632	500.000	506	
\$ 56 Decachlorobiphenyl	11.604	11.604	0.000	9723908158	100.000	95.6	

Data File: /chem1/SV00A/GC\_31.i/170525.b/b17052521.d

Date : 25-MAY-2017 17:14

Client ID:

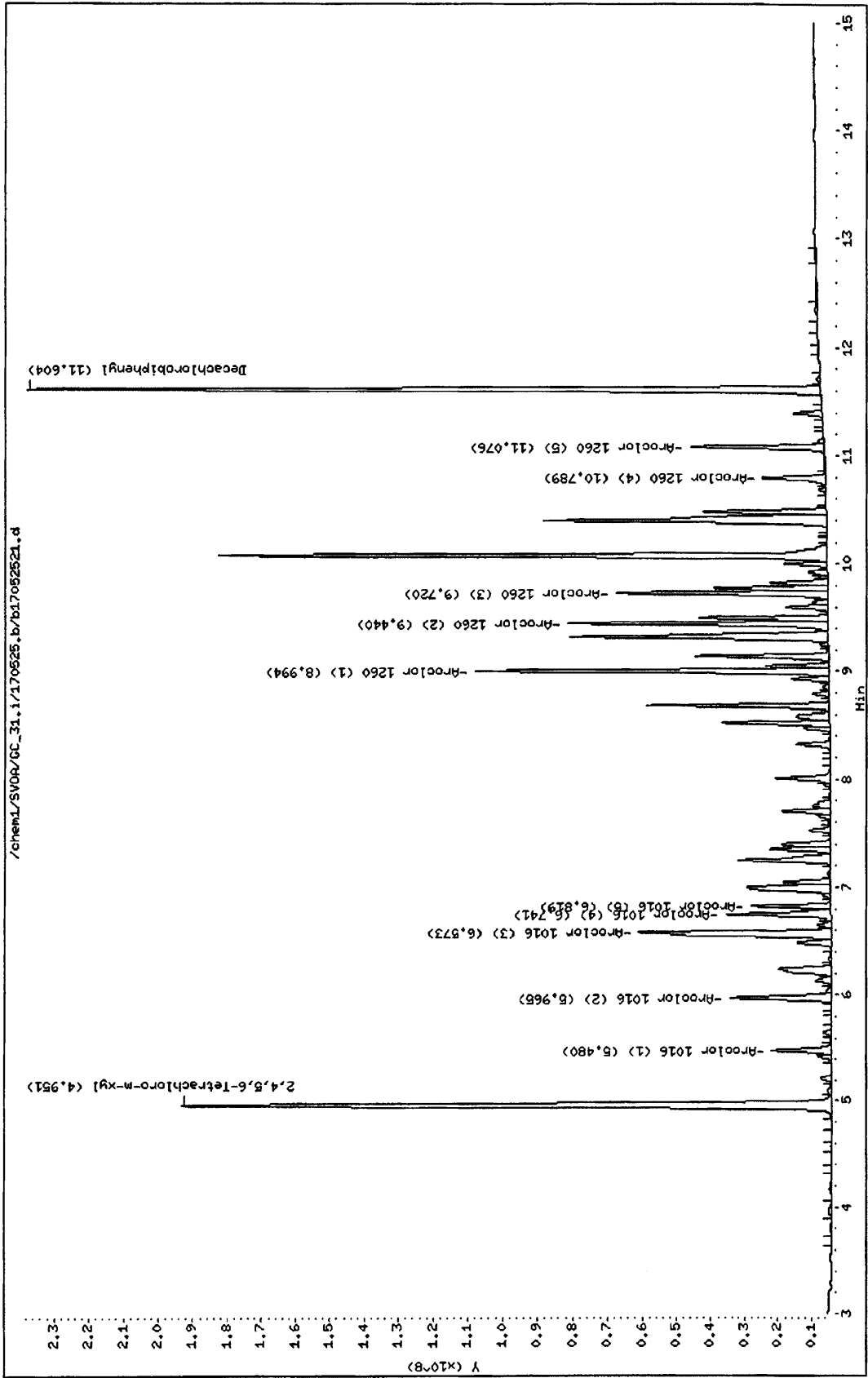
Sample Info: PCB CCV P0517171

Instrument: GC\_31.i

Operator: 944

Column diameter: 2.00

Column phase:



# CONTINUING CALIBRATION VERIFICATION QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**CCV WORK ORDER:** 099-15-958-428-6572  
**BATCH ID:**  
INITIAL: 170523I001  
CCV: 170525A006  
**INSTRUMENT:** GC 58  
**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705252217052522

ANALYZED BY: 944  
D/T ANALYZED:  
INITIAL: 2017-05-23 16:52  
CCV: 2017-05-25 15:54  
REVIEWED BY: 27  
D/T REVIEWED: 2017-05-26 13:15

<u>COMPOUND NAME</u>	<u>TYPE</u>	<u>CALIB MODEL</u>	<u>MIN RF</u>	<u>AVG RF</u>	<u>CCV RF</u>	<u>AMOUNT</u>	<u>CCV CONC</u>	<u>CCV %D</u>	<u>CCV %D CL</u>	<u>STATUS</u>
Aroclor-1016	C	Avg Resp	0.00	11506630.029	10377546.182			10	0-15	PASS
Aroclor-1260	C	Avg Resp	0.00	11537050.448	11010187.402			5	0-15	PASS

MIN RF: Method Specified Minimum Response Factor



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052522.d  
 Report Date: 05/25/2017 16:26

Eurofins CalScience  
 Calibration Verification Report

Instrument ID: GC\_58.i                      Injection Date and Time: 25-MAY-2017 15:54  
 Sample Name: PCB CCV 500 PPB P051717I    Initial Calibration Date(s): 04-OCT-2016 23-MAY-2017  
 Sublist used: pl016\_1260.sub            Initial Calibration Time(s): 21:49 19:33  
 Method used: /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
Aroclor-1016	11506630.029	10377546.181	0.01	10	15	Averaged
Aroclor 1016 (1)	1122906.647	1004130.584	0.01	11	15	Averaged
Aroclor 1016 (2)	2104568.955	1894596.492	0.01	10	15	Averaged
Aroclor 1016 (3)	4720545.338	4310223.171	0.01	9	15	Averaged
Aroclor 1016 (4)	1985806.908	1766226.240	0.01	11	15	Averaged
Aroclor 1016 (5)	1572802.181	1402369.694	0.01	11	15	Averaged
Aroclor 1260 (4)	810360.902	809635.506	0.01	0	15	Averaged
Aroclor-1260	11537050.448	11010187.402	0.01	5	15	Averaged
Aroclor 1260 (5)	1850172.206	1891778.560	0.01	-2	15	Averaged
Aroclor 1260 (1)	3449997.793	3211723.702	0.01	7	15	Averaged
Aroclor 1260 (2)	2560223.179	2403184.346	0.01	6	15	Averaged
Aroclor 1260 (3)	2866296.368	2693865.288	0.01	6	15	Averaged
Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
2,4,5,6-Tetrachloro-m-xylene	63384724.500	58934319.529	0.01	7	15	Averaged
Decachlorobiphenyl	62437904.300	62589569.921	0.01	0	15	Averaged

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052522.d  
 Report Date: 25-May-2017 16:25

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## Eurofins Calscience

## EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052522.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 15:54  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB CCV 500 PPB P051717I  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 25-May-2017 16:25 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 22 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.744	4.740	0.004	5893431953	100.000	93.0
M 2 Aroclor-1016				5188773091	500.000	451
3 Aroclor 1016 (1)	5.454	5.451	0.003	502065292	500.000	447
4 Aroclor 1016 (2)	5.998	5.996	0.002	947298246	500.000	450
5 Aroclor 1016 (3)	6.581	6.580	0.001	2155111586	500.000	456
6 Aroclor 1016 (4)	6.751	6.750	0.001	883113120	500.000	445
7 Aroclor 1016 (5)	6.878	6.877	0.001	701184847	500.000	446
M 8 Aroclor-1260				5505093701	500.000	477
9 Aroclor 1260 (1)	9.055	9.057	-0.002	1605861851	500.000	465
10 Aroclor 1260 (2)	9.567	9.569	-0.002	1201592173	500.000	469
11 Aroclor 1260 (3)	9.905	9.908	-0.003	1346932644	500.000	470
12 Aroclor 1260 (4)	11.075	11.081	-0.006	404817753	500.000	500
13 Aroclor 1260 (5)	11.256	11.263	-0.007	945889280	500.000	511
T 56 Decachlorobiphenyl	11.916	11.920	-0.004	6258956992	100.000	100

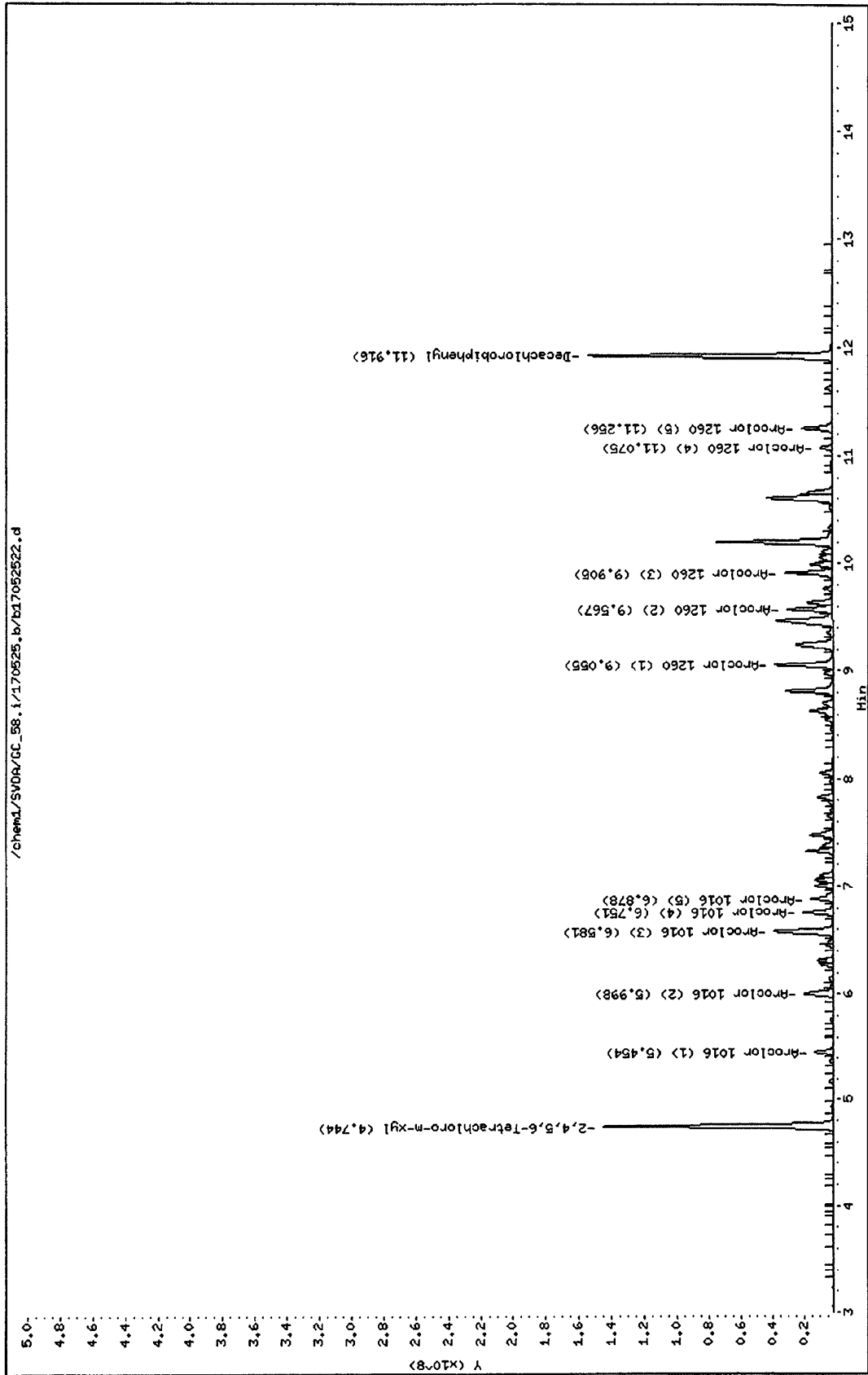
Data File: /chem1/SVDA/GC\_58.i/170525.b/17052522.d  
Date : 25-MAY-2017 15:54  
Client ID:  
Sample Info: PCB CCV 500 PPB P0517171

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



**CCV ASSOCIATION SUMMARY  
FOR METHOD: EPA 8082**

**BATCH ID:** 170525A007  
**INSTRUMENT:** GC 58

**ANALYZED BY:** 944

**WORK ORDER:** 099-15-958  
**MATRIX:** Soil

**REVIEWED BY:** 27  
**D/T REVIEWED:** 2017-05-26 18:14

<u>CEL SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>D/T ANALYZED</u>	<u>DATA FILE</u>
429	Daily Calibration	2017-05-25 19:32	/chem1/SVOA/GC_58/170525/b1705253017052530

**WORK ORDER:** 17-05-1776  
**MATRIX:** Soil

**REVIEWED BY:** 27  
**D/T REVIEWED:** 2017-05-26 18:21

<u>CEL SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>D/T ANALYZED</u>	<u>DATA FILE</u>
1	DDP-S001	2017-05-25 19:50	/chem1/SVOA/GC_58/170525/b1705253117052531
2	DDP-S002	2017-05-25 20:08	/chem1/SVOA/GC_58/170525/b1705253217052532
3	DDP-S003	2017-05-25 20:26	/chem1/SVOA/GC_58/170525/b1705253317052533
4	DDP-S004	2017-05-25 20:44	/chem1/SVOA/GC_58/170525/b1705253417052534
5	DDP-S005	2017-05-25 21:02	/chem1/SVOA/GC_58/170525/b1705253517052535
6	DDP-S006	2017-05-25 21:20	/chem1/SVOA/GC_58/170525/b1705253617052536
7	DDP-S007	2017-05-25 21:38	/chem1/SVOA/GC_58/170525/b1705253717052537
8	DDP-S008	2017-05-25 21:56	/chem1/SVOA/GC_58/170525/b1705253817052538
9	DDP-S009	2017-05-25 22:14	/chem1/SVOA/GC_58/170525/b1705253917052539
11	DDP-S011	2017-05-25 22:50	/chem1/SVOA/GC_58/170525/b1705254117052541
13	TP-S002	2017-05-25 23:25	/chem1/SVOA/GC_58/170525/b1705254317052543
14	TP-S003	2017-05-25 23:43	/chem1/SVOA/GC_58/170525/b1705254417052544
15	TP-S004	2017-05-26 00:01	/chem1/SVOA/GC_58/170525/b1705254517052545
16	TP-S005	2017-05-26 00:19	/chem1/SVOA/GC_58/170525/b1705254617052546
17	TP-S006	2017-05-26 00:37	/chem1/SVOA/GC_58/170525/b1705254717052547
18	TP-S007	2017-05-26 00:55	/chem1/SVOA/GC_58/170525/b1705254817052548
19	TP-S008	2017-05-26 01:13	/chem1/SVOA/GC_58/170525/b1705254917052549
20	TP-S009	2017-05-26 01:31	/chem1/SVOA/GC_58/170525/b1705255017052550

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# CONTINUING CALIBRATION VERIFICATION QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**CCV WORK ORDER:** 099-15-958-429-6572

**BATCH ID:**

1705231001

170525A007

**INSTRUMENT:**

GC 58

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705253017052530

**ANALYZED BY:** 944

**D/T ANALYZED:**

INITIAL:

2017-05-23 16:52

CCV:

2017-05-25 19:32

**REVIEWED BY:**

*u*

**D/T REVIEWED:**

COMPOUND NAME	TYPE	CALIB MODEL	MIN RF	AVG RF	CCV RF	AMOUNT	CCV CONC	CCV %D	CCV %D CL	STATUS
Aroclor-1016	C	Avg Resp	0.00	11506630.029	11092041.794		4	0-15	0-15	PASS
Aroclor-1260	C	Avg Resp	0.00	11537050.448	12278420.830		-6	0-15	0-15	PASS

MIN RF: Method Specified Minimum Response Factor

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052530.d  
 Report Date: 05/26/2017 10:04

Eurofins CalScience  
 Calibration Verification Report

Instrument ID: GC\_58.i                      Injection Date and Time: 25-MAY-2017 19:32  
 Sample Name: PCB CCV 500 PPB P051717I      Initial Calibration Date(s): 04-OCT-2016 23-MAY-2017  
 Sublist used: p1016\_1260.sub              Initial Calibration Time(s): 21:49 19:33  
 Method used: /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift /Drift	Max%D	Curve Type
Aroclor-1016	11506630.029	11092041.794	0.01	4	15	Averaged
Aroclor 1016 (1)	1122906.647	1068488.020	0.01	5	15	Averaged
Aroclor 1016 (2)	2104568.955	2013888.574	0.01	4	15	Averaged
Aroclor 1016 (3)	4720545.338	4609452.364	0.01	2	15	Averaged
Aroclor 1016 (4)	1985806.908	1894233.966	0.01	5	15	Averaged
Aroclor 1016 (5)	1572802.181	1505978.870	0.01	4	15	Averaged
Aroclor 1260 (4)	810360.902	869366.946	0.01	-7	15	Averaged
Aroclor-1260	11537050.448	12278420.830	0.01	-6	15	Averaged
Aroclor 1260 (5)	1850172.206	2113160.224	0.01	-14	15	Averaged
Aroclor 1260 (1)	3449997.793	3570330.876	0.01	-3	15	Averaged
Aroclor 1260 (2)	2560223.179	2711913.496	0.01	-6	15	Averaged
Aroclor 1260 (3)	2866296.368	3013649.288	0.01	-5	15	Averaged
Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift /Drift	Max%D	Curve Type
2,4,5,6-Tetrachloro-m-xylene	63384724.500	62297383.686	0.01	2	15	Averaged
Decachlorobiphenyl	62437904.300	70436340.625	0.01	-13	15	Averaged

page 1

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052530.d  
 Report Date: 26-May-2017 10:04

Page 1

Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052530.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 19:32  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB CCV 500 PPB P051717I  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 30 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.743	4.740	0.003	6229738369	100.000	98.3
M 2 Aroclor-1016				5546020897	500.000	482
3 Aroclor 1016 (1)	5.454	5.451	0.003	534244010	500.000	476
4 Aroclor 1016 (2)	5.998	5.996	0.002	1006944287	500.000	478
5 Aroclor 1016 (3)	6.581	6.580	0.001	2304726182	500.000	488
6 Aroclor 1016 (4)	6.751	6.750	0.001	947116983	500.000	477
7 Aroclor 1016 (5)	6.878	6.877	0.001	752989435	500.000	479
M 8 Aroclor-1260				6139210415	500.000	532
9 Aroclor 1260 (1)	9.055	9.057	-0.002	1785165438	500.000	517
10 Aroclor 1260 (2)	9.568	9.569	-0.001	1355956748	500.000	530
11 Aroclor 1260 (3)	9.905	9.908	-0.003	1506824644	500.000	526
12 Aroclor 1260 (4)	11.075	11.081	-0.006	434683473	500.000	536
13 Aroclor 1260 (5)	11.256	11.263	-0.007	1056580112	500.000	571
T 56 Decachlorobiphenyl	11.916	11.920	-0.004	7043634063	100.000	113



Data File: /chem1/SV00R/GC\_58.i/170525.b/b17052530.d

Date : 25-MAY-2017 19:32

Client ID:

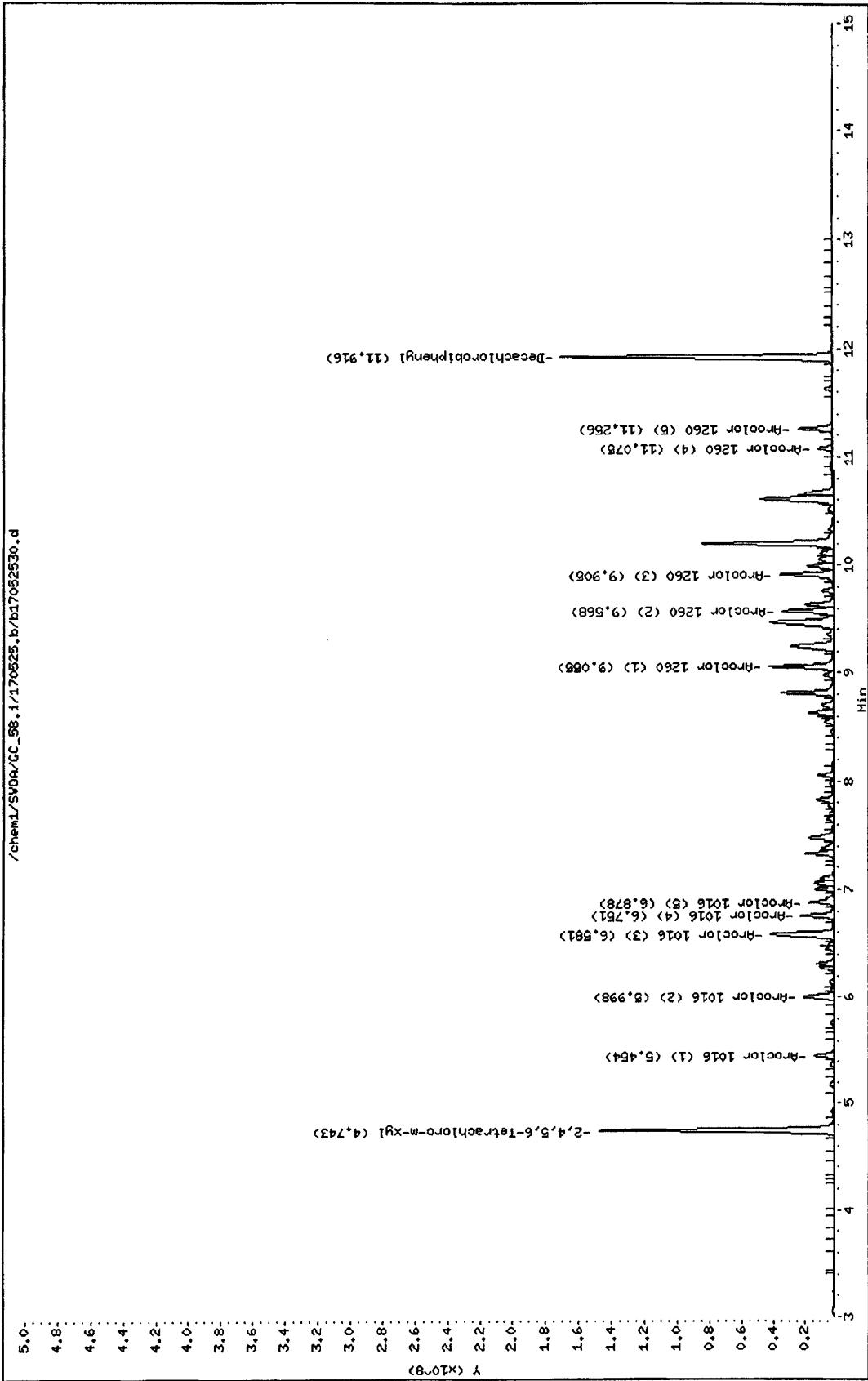
Sample Info: PCB CCV 500 PP8 P0517171

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



# CONTINUING CALIBRATION VERIFICATION QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**CCV WORK ORDER:** 099-15-958-461-6572

**ANALYZED BY:** 669

**BATCH ID:**

**D/T ANALYZED:**

170523I001  
170525A081  
GC 58

2017-05-23 16:52  
2017-05-26 01:49

**INITIAL:**

**INITIAL:**

**CCV:**

**CCV:**

**INSTRUMENT:**

**REVIEWED BY:**

**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705255117052551

<u>COMPOUND NAME</u>	<u>TYPE</u>	<u>CALIB MODEL</u>	<u>MIN RF</u>	<u>AVG RF</u>	<u>CCV RF</u>	<u>AMOUNT</u>	<u>CCV CONC</u>	<u>CCV %D</u>	<u>CCV %D CL</u>	<u>STATUS</u>
Atoclor-1016	C	Avg Resp	0.00	11506630.029	10209189.496			11	0-15	PASS
Atoclor-1260	C	Avg Resp	0.00	11537050.448	10854671.250			6	0-15	PASS

MIN RF: Method Specified Minimum Response Factor



Data File: /chem1/SVOA/GC\_58.i/170525.b/b170525S1.d  
 Report Date: 05/26/2017 10:04

Eurofins CalScience  
 Calibration Verification Report

Instrument ID: GC\_58.i                      Injection Date and Time: 26-MAY-2017 01:49  
 Sample Name: PCB CCV 500 PPB P051717I      Initial Calibration Date(s): 04-OCT-2016 23-MAY-2017  
 Sublist used: p1016\_1260.sub              Initial Calibration Time(s): 21:49      19:33  
 Method used: /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
=====						
Aroclor-1016	11506630.029	10209189.496	0.01	11	15	Averaged
Aroclor 1016 (1)	1122906.647	1026177.872	0.01	9	15	Averaged
Aroclor 1016 (2)	2104568.955	1938489.816	0.01	8	15	Averaged
Aroclor 1016 (3)	4720545.338	4370767.966	0.01	7	15	Averaged
Aroclor 1016 (4)	1985806.908	1753052.812	0.01	12	15	Averaged
Aroclor 1016 (5)	1572802.181	1120701.030	0.01	29	15	Averaged
Aroclor 1260 (4)	810360.902	833687.828	0.01	-3	15	Averaged
Aroclor-1260	11537050.448	10854671.250	0.01	6	15	Averaged
Aroclor 1260 (5)	1850172.206	1943655.414	0.01	-5	15	Averaged
Aroclor 1260 (1)	3449997.793	3079698.312	0.01	11	15	Averaged
Aroclor 1260 (2)	2560223.179	2347170.932	0.01	8	15	Averaged
Aroclor 1260 (3)	2866296.368	2650458.764	0.01	8	15	Averaged
=====						
Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
=====						
2,4,5,6-Tetrachloro-m-xylene	63384724.500	60957859.794	0.01	4	15	Averaged
Decachlorobiphenyl	62437904.300	65568664.116	0.01	-5	15	Averaged

<-Failed

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052551.d  
 Report Date: 26-May-2017 10:04

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052551.d  
 Lab Smp Id:  
 Inj Date : 26-MAY-2017 01:49  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB CCV 500 PPB P051717I  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 51 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.745	4.740	0.005	6095785979	100.000	96.2
M 2 Aroclor-1016				5104594748	500.000	444
3 Aroclor 1016 (1)	5.456	5.452	0.004	513088936	500.000	457
4 Aroclor 1016 (2)	6.000	5.996	0.004	969244908	500.000	460
5 Aroclor 1016 (3)	6.584	6.580	0.004	2185383983	500.000	463
6 Aroclor 1016 (4)	6.754	6.750	0.004	876526406	500.000	441
7 Aroclor 1016 (5)	6.881	6.877	0.004	560350515	500.000	356
M 8 Aroclor-1260				5427335625	500.000	470
9 Aroclor 1260 (1)	9.056	9.057	-0.001	1539849156	500.000	446
10 Aroclor 1260 (2)	9.570	9.570	0.000	1173585466	500.000	458
11 Aroclor 1260 (3)	9.907	9.908	-0.001	1325229382	500.000	462
12 Aroclor 1260 (4)	11.078	11.081	-0.003	416843914	500.000	514
13 Aroclor 1260 (5)	11.258	11.264	-0.006	971827707	500.000	525
T 56 Decachlorobiphenyl	11.918	11.920	-0.002	6556866412	100.000	105

Data File: /chem1/SVDA/GC\_58.i/170525.b/b17052551.d

Date : 26-MAY-2017 01:49

Client ID:

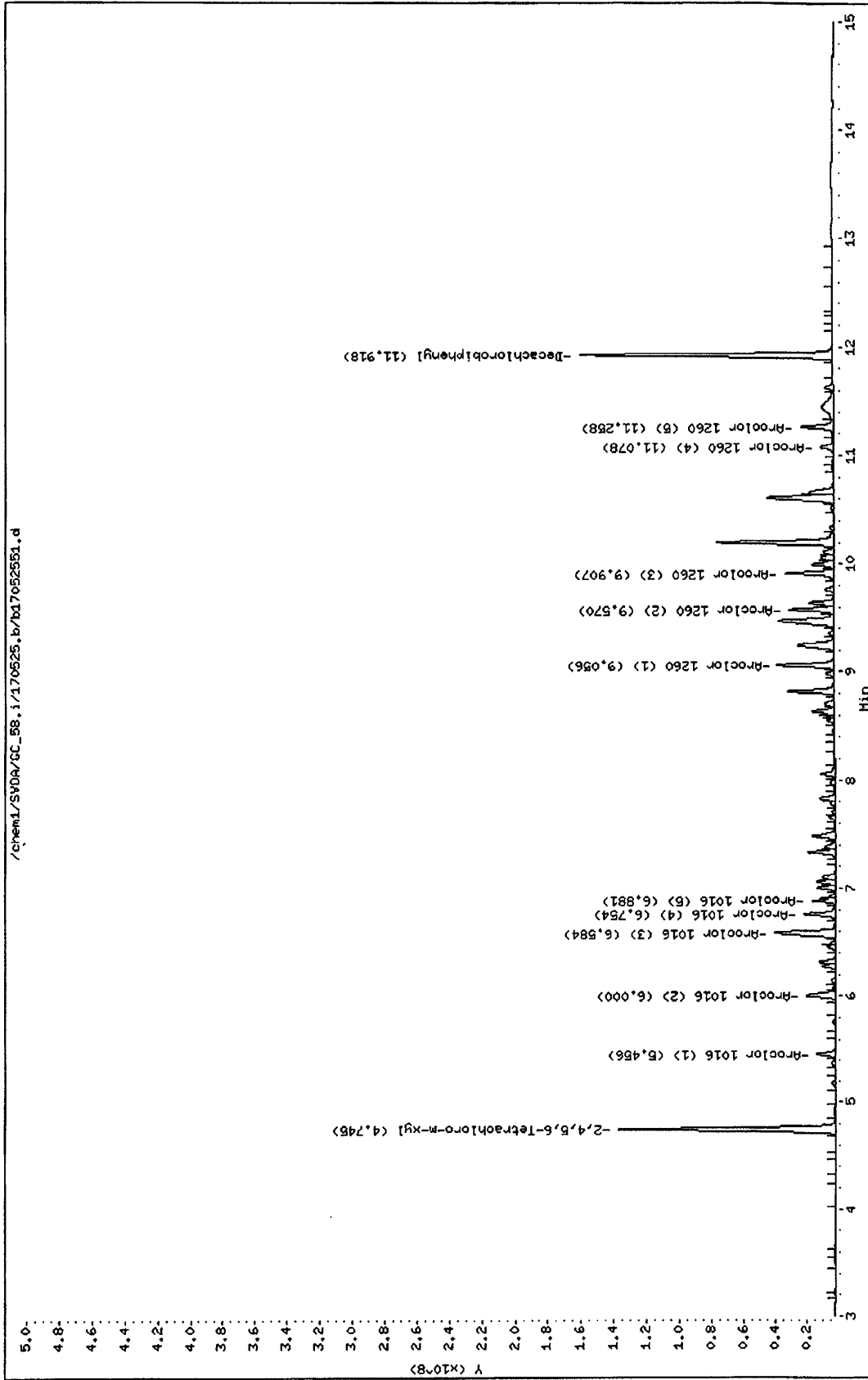
Sample Info: PCB CCV 500 PPB P0517171

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



CCV ASSOCIATION SUMMARY  
FOR METHOD: EPA 8082

BATCH ID: 170526A006  
INSTRUMENT: GC 58

ANALYZED BY: 944

WORK ORDER: 099-15-958  
MATRIX: Soil

REVIEWED BY: 27  
D/T REVIEWED: 2017-05-26 18:14

<u>CEL SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>D/T ANALYZED</u>	<u>DATA FILE</u>
430	Daily Calibration	2017-05-26 15:05	/chem1/SVOA/GC_58/170526/b1705261217052612

WORK ORDER: 17-05-1776  
MATRIX: Soil

REVIEWED BY: 421  
D/T REVIEWED: 2017-06-22 13:31

<u>CEL SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>D/T ANALYZED</u>	<u>DATA FILE</u>
10	DDP-S010	2017-05-26 16:52	/chem1/SVOA/GC_58/170526/b1705261817052618
12	TP-S001	2017-05-26 17:10	/chem1/SVOA/GC_58/170526/b1705261917052619

# CONTINUING CALIBRATION VERIFICATION QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**CCV WORK ORDER:** 099-15-958-430-6572

**BATCH ID:**

1705231001  
170526A006  
GC-58

**ANALYZED BY:** 944

**D/T ANALYZED:**

INITIAL:  
CCV: 2017-05-23 16:52  
2017-05-26 15:05

**REVIEWED BY:**

**D/T REVIEWED:**

*M*

**DATA FILE:** /chem1/SVOA/GC\_58/170526/b1705261217052612

<u>COMPOUND NAME</u>	<u>TYPE</u>	<u>CALIB MODEL</u>	<u>MIN RF</u>	<u>AVG RF</u>	<u>CCV RF</u>	<u>AMOUNT</u>	<u>CCV CONC</u>	<u>CCV %D</u>	<u>CCV %D CL</u>	<u>STATUS</u>
Aroclor-1016	C	Avg Resp	0.00	11506630.029	10794896.404		6	0-15	0-15	PASS
Aroclor-1260	C	Avg Resp	0.00	11537050.448	11525374.538		0	0-15	0-15	PASS

MIN RF: Method Specified Minimum Response Factor

Data File: /chem1/SVOA/GC\_58.i/170526.b/b17052612.d  
 Report Date: 05/26/2017 16:07

Eurofins CalScience  
 Calibration Verification Report

Instrument ID: GC\_58.i Injection Date and Time: 26-MAY-2017 15:05  
 Sample Name: PCB CCV 500 PPB P P051717I Initial Calibration Date(s): 04-OCT-2016 23-MAY-2017  
 Sublist used: p1016\_1260.sub Initial Calibration Time(s): 21:49 19:33  
 Method used: /chem1/SVOA/GC\_58.i/170526.b/b8082-n2.m

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
Aroclor-1016	11506630.029	10794896.404	0.01	6	15	Averaged
Aroclor 1016 (1)	1122906.647	1041358.958	0.01	7	15	Averaged
Aroclor 1016 (2)	2104568.955	1965894.258	0.01	7	15	Averaged
Aroclor 1016 (3)	4720545.338	4500458.108	0.01	5	15	Averaged
Aroclor 1016 (4)	1985806.908	1833377.038	0.01	8	15	Averaged
Aroclor 1016 (5)	1572802.181	1453808.042	0.01	8	15	Averaged
Aroclor 1260 (4)	810360.902	837598.926	0.01	-3	15	Averaged
Aroclor-1260	11537050.448	11525374.538	0.01	0	15	Averaged
Aroclor 1260 (5)	1850172.206	2043195.852	0.01	-10	15	Averaged
Aroclor 1260 (1)	3449997.793	3321163.222	0.01	4	15	Averaged
Aroclor 1260 (2)	2560223.179	2519742.700	0.01	2	15	Averaged
Aroclor 1260 (3)	2866296.368	2803673.838	0.01	2	15	Averaged
Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
2,4,5,6-Tetrachloro-m-xylene	63384724.500	60838174.048	0.01	4	15	Averaged
Decachlorobiphenyl	62437904.300	69169210.362	0.01	-11	15	Averaged

Data File: /chem1/SVOA/GC\_58.i/170526.b/b17052612.d  
 Report Date: 26-May-2017 16:03

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170526.b/b17052612.d  
 Lab Smp Id:  
 Inj Date : 26-MAY-2017 15:05  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB CCV 500 PPB P P051717I  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170526.b/b8082-n2.m  
 Meth Date : 26-May-2017 16:03 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 12 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.746	4.740	0.006	6083817405	100.000	96.0
M 2 Aroclor-1016				5397448202	500.000	469
3 Aroclor 1016 (1)	5.457	5.452	0.005	520679479	500.000	464
4 Aroclor 1016 (2)	6.001	5.997	0.004	982947129	500.000	467
5 Aroclor 1016 (3)	6.584	6.580	0.004	2250229054	500.000	477
6 Aroclor 1016 (4)	6.754	6.750	0.004	916688519	500.000	462
7 Aroclor 1016 (5)	6.881	6.877	0.004	726904021	500.000	462
M 8 Aroclor-1260				5762687269	500.000	499
9 Aroclor 1260 (1)	9.057	9.057	0.000	1660581611	500.000	481
10 Aroclor 1260 (2)	9.569	9.570	-0.001	1259871350	500.000	492
11 Aroclor 1260 (3)	9.907	9.908	-0.001	1401836919	500.000	489
12 Aroclor 1260 (4)	11.077	11.081	-0.004	418799463	500.000	517
13 Aroclor 1260 (5)	11.258	11.263	-0.005	1021597926	500.000	552
T 56 Decachlorobiphenyl	11.917	11.920	-0.003	6916921036	100.000	111

Data File: /chem1/SV0A/GC\_58.i/170526.b/b17052612.d

Date : 26-MAY-2017 15:05

Client ID:

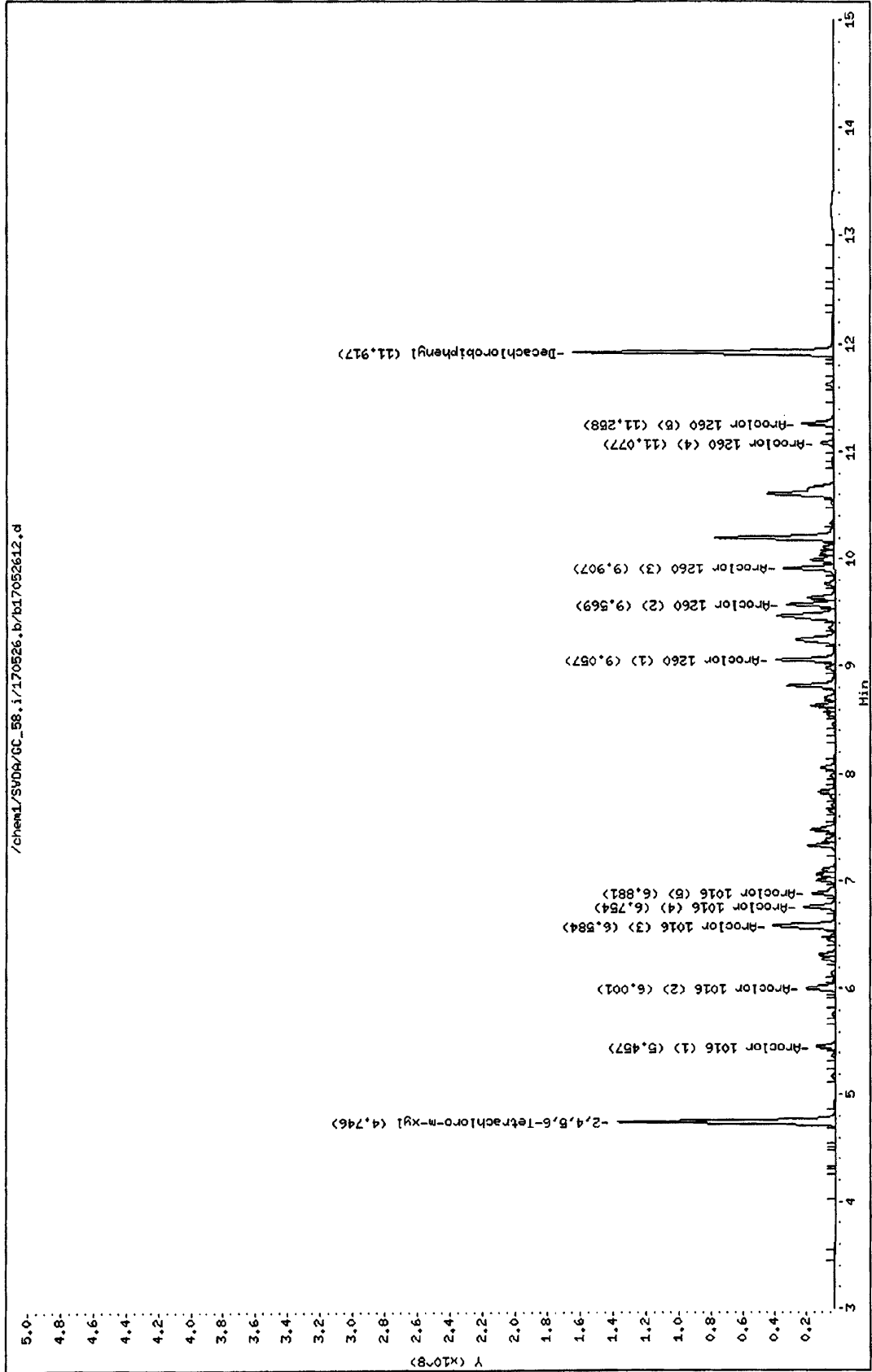
Sample Info: PCB CCV 500 PPB P P0517171

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:





# CONTINUING CALIBRATION VERIFICATION QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**CCV WORK ORDER:** 099-15-958-462-6572

**ANALYZED BY:** 669

**BATCH ID:**  
INITIAL: 170523I001  
CCV: 170526A007  
**INSTRUMENT:** GC 58

D/T ANALYZED:  
INITIAL: 2017-05-23 16:52  
CCV: 2017-05-26 17:28  
**REVIEWED BY:**  
D/T REVIEWED:

**DATA FILE:** /chem1/SVOA/GC\_58/170526/b1705262017052620

<u>COMPOUND NAME</u>	<u>TYPE</u>	<u>CALIB MODEL</u>	<u>MIN RF</u>	<u>AVG RF</u>	<u>CCV RF</u>	<u>AMOUNT</u>	<u>CCV CONC</u>	<u>CCV %D</u>	<u>CCV %D CL</u>	<u>STATUS</u>
Aroclor-1016	C	Avg Resp	0.00	11506630.029	10554603.568			8	0-15	PASS
Aroclor-1260	C	Avg Resp	0.00	11537050.448	10787542.914			6	0-15	PASS

MIN RF: Method Specified Minimum Response Factor



Data File: /chem1/SVOA/GC\_58.i/170526.b/b17052620.d  
 Report Date: 05/26/2017 17:55

Eurofins CalScience  
 Calibration Verification Report

Instrument ID: GC\_58.i Injection Date and Time: 26-MAY-2017 17:28  
 Sample Name: PCB CCV 500 PPB P051717I Initial Calibration Date(s): 04-OCT-2016 23-MAY-2017  
 Sublist used: p1016\_1260.sub Initial Calibration Time(s): 21:49 19:33  
 Method used: /chem1/SVOA/GC\_58.i/170526.b/b8082-n2.m

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift /Drift	Max%D	Curve Type
Aroclor-1016	11506630.029	10554603.568	0.01	8	15	Averaged
Aroclor 1016 (1)	1122906.647	1011055.496	0.01	10	15	Averaged
Aroclor 1016 (2)	2104568.955	1926927.204	0.01	8	15	Averaged
Aroclor 1016 (3)	4720545.338	4428817.076	0.01	6	15	Averaged
Aroclor 1016 (4)	1985806.908	1768324.348	0.01	11	15	Averaged
Aroclor 1016 (5)	1572802.181	1419479.444	0.01	10	15	Averaged
Aroclor 1260 (4)	810360.902	721948.938	0.01	11	15	Averaged
Aroclor-1260	11537050.448	10787542.914	0.01	6	15	Averaged
Aroclor 1260 (5)	1850172.206	1771041.980	0.01	4	15	Averaged
Aroclor 1260 (1)	3449997.793	3188263.518	0.01	8	15	Averaged
Aroclor 1260 (2)	2560223.179	2412134.942	0.01	6	15	Averaged
Aroclor 1260 (3)	2866296.368	2694153.536	0.01	6	15	Averaged
Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift /Drift	Max%D	Curve Type
2,4,5,6-Tetrachloro-m-xylene	63384724.500	60613575.859	0.01	4	15	Averaged
Decachlorobiphenyl	62437904.300	60727374.143	0.01	3	15	Averaged

Data File: /chem1/SVOA/GC\_58.i/170526.b/b17052620.d  
 Report Date: 26-May-2017 17:53

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170526.b/b17052620.d  
 Lab Smp Id:  
 Inj Date : 26-MAY-2017 17:28  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB CCV 500 PPB P051717I  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170526.b/b8082-n2.m  
 Meth Date : 26-May-2017 17:53 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 20 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.742	4.739	0.003	6061357586	100.000	95.6
M 2 Aroclor-1016				5277301784	500.000	459
3 Aroclor 1016 (1)	5.453	5.451	0.002	505527748	500.000	450
4 Aroclor 1016 (2)	5.998	5.996	0.002	963463602	500.000	458
5 Aroclor 1016 (3)	6.580	6.579	0.001	2214408538	500.000	469
6 Aroclor 1016 (4)	6.751	6.750	0.001	884162174	500.000	445
7 Aroclor 1016 (5)	6.878	6.877	0.001	709739722	500.000	451
M 8 Aroclor-1260				5393771457	500.000	468
9 Aroclor 1260 (1)	9.054	9.056	-0.002	1594131759	500.000	462
10 Aroclor 1260 (2)	9.567	9.569	-0.002	1206067471	500.000	471
11 Aroclor 1260 (3)	9.904	9.908	-0.004	1347076768	500.000	470
12 Aroclor 1260 (4)	11.074	11.080	-0.006	360974469	500.000	445
13 Aroclor 1260 (5)	11.256	11.263	-0.007	885520990	500.000	479
T 56 Decachlorobiphenyl	11.915	11.919	-0.004	6072737414	100.000	97.3



Data File: /chem1/SVDA/CC\_58.i/170526.b/b17052620.d

Date : 26-MAY-2017 17:28

Client ID:

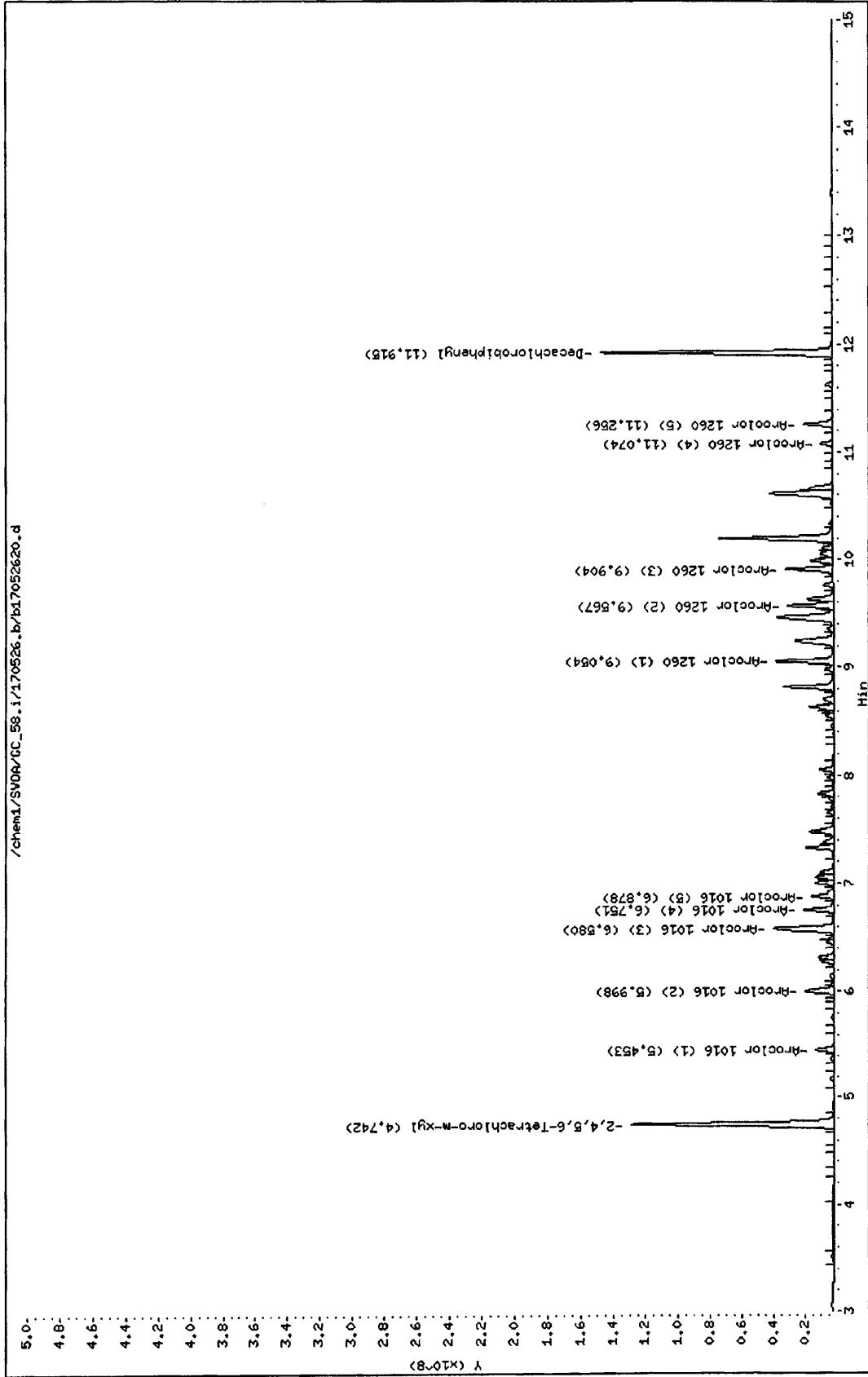
Sample Info: PCB CCV 500 PPB P0517171

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



# EPA METHOD 8082 PCB

## Run Logs

## Sequence Table (Front Injector):

## Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 100	IB S007-62-06	8082-N2	1	Sample		17051900
2	Vial 1	ICAL-1 P051717F	8082-N2	1	Sample		17051901
3	Vial 2	ICAL-2 P051717E	8082-N2	1	Sample		17051902
4	Vial 3	ICAL-3 P051717D	8082-N2	1	Sample		17051903
5	Vial 4	ICAL-4 P051717C	8082-N2	1	Sample		17051904
6	Vial 5	ICAL-5 P051717B	8082-N2	1	Sample		17051905
7	Vial 6	ICV P051717H	8082-N2	1	Sample		17051906
8	Vial 7	1221/54 P051717J	8082-N2	1	Sample		17051907
9	Vial 8	1232/62 P051717K	8082-N2	1	Sample		17051908
10	Vial 9	1248/68 P051717L	8082-N2	1	Sample		17051909
11	Vial 10	1242 P051717M	8082-N2	1	Sample		17051910
12	Vial 11	1254IC1 P040817F	8082-N2	1	Sample		17051911
13	Vial 12	1254IC2 P040817E	8082-N2	1	Sample		17051912
14	Vial 13	1254IC3 P040817D	8082-N2	1	Sample		17051913
15	Vial 14	1254IC4 P040817C	8082-N2	1	Sample		17051914
16	Vial 15	1254IC5 P040817B	8082-N2	1	Sample		17051915
17	Vial 16	1254ICV P040817H	8082-N2	1	Sample		17051916
18	Vial 17	PCB CCV P051717I	8082-N2	1	Sample		17051917

## Sequence Table (Back Injector):

No entries - empty table!

Line	Vial	File	Name	Method	InjVolume	Acquired
1	100	17052300	IB S007-62-06	8082-N2		23-May-17, 11:03:20
2	1	17052301	PCB ICAL-1 100 PPB P051717F	8082-N2		23-May-17, 11:21:15
3	2	17052302	PCB ICAL-2 250 PPB P051717E	8082-N2		23-May-17, 11:39:09
4	3	17052303	PCB ICAL-3 500 PPB P051717D	8082-N2		23-May-17, 11:57:04
5	4	17052304	PCB ICAL-4 750 PPB P051717C	8082-N2		23-May-17, 12:15:07
6	5	17052305	PCB ICAL-5 2000 PPB P051717B	8082-N2		23-May-17, 12:33:01
7	6	17052306	PCB ICV 500 PPB P051717H	8082-N2	- front > 15% PP ICAL	23-May-17, 13:50:06
8	7	17052307	PCB 1221/54 500 PPB P051717J	8082-N2		23-May-17, 14:08:02
9	8	17052308	PCB 1232/62 500 PPB P051717K	8082-N2		23-May-17, 14:25:54
10	9	17052309	PCB 1248/68 500 PPB P051717L	8082-N2		23-May-17, 14:43:51
11	10	17052310	PCB 1242 500 PPB P051717M	8082-N2		23-May-17, 15:01:53
12	11	17052311	P052217A 200 PPB (3540C)-SPIKE	8082-N2		23-May-17, 15:19:50
13	12	17052312	PCB CCV 500 PPB P P051717I	8082-N2		23-May-17, 15:37:42
14	21	17052321	PCB ICAL-1 100 PPB P051717F	8082-N2		23-May-17, 16:52:05
15	22	17052322	PCB ICAL-2 250 PPB P051717E	8082-N2		23-May-17, 17:09:57
16	23	17052323	PCB ICAL-3 500 PPB P051717D	8082-N2		23-May-17, 17:27:51
17	24	17052324	PCB ICAL-4 750 PPB P051717C	8082-N2		23-May-17, 17:45:52
18	25	17052325	PCB ICAL-5 2000 PPB P051717B	8082-N2		23-May-17, 18:03:47
19	26	17052326	PCB ICV 500 PPB P051717H	8082-N2		23-May-17, 18:21:40
20	27	17052327	PCB 1221/54 500 PPB P051717J	8082-N2		23-May-17, 18:39:35
21	28	17052328	PCB 1232/62 500 PPB P051717K	8082-N2		23-May-17, 18:57:36
22	29	17052329	PCB 1248/68 500 PPB P051717L	8082-N2		23-May-17, 19:15:30
23	30	17052330	PCB 1242 500 PPB P051717M	8082-N2		23-May-17, 19:33:25

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 100	IB S007-62-06	8082-N2	1	Sample		17052500
2	Vial 1	PCB CCV P051717I	8082-N2	1	Sample		17052501
3	Vial 2	MB 170522L14	8082-N2	1	Sample	1003	17052502
4	Vial 3	LCS 170522L14	8082-N2	1	Sample		17052503
5	Vial 4	LCSD 170522L14	8082-N2	1	Sample		17052504
6	Vial 7	MB 170523L13	8082-N2	1	Sample		17052507
7	Vial 8	LCS 170523L13	8082-N2	1	Sample		17052508
8	Vial 9	17-05-1814-9	8082-N2	1	Sample		17052509
9	Vial 10	17-05-1776-21	8082-N2	1	Sample		17052510
10	Vial 11	17-05-1776-22	8082-N2	1	Sample		17052511
11	Vial 12	MS 17-05-1776-22	8082-N2	1	Sample		17052512
12	Vial 13	MSD17-05-1776-22	8082-N2	1	Sample		17052513
13	Vial 19	17-05-1814-9 Hg	8082-N2	1	Sample		17052519
14	Vial 14	LCS 170524L06	8082-N2	1	Sample		17052514
15	Vial 15	LCSD 170524L06	8082-N2	1	Sample		17052515
16	Vial 16	MB 170524L06	8082-N2	1	Sample	→ loose cap	17052516
17	Vial 17	17-05-1790-2	8082-N2	1	Sample	PB+R	17052517
18	Vial 18	17-05-1790-3	8082-N2	1	Sample		17052518
19	Vial 5	17-05-1525-3	8082-N2	1	Sample		17052505
20	Vial 6	17-05-1525-4	8082-N2	1	Sample		17052506
21	Vial 20	MB 170524L06	8082-N2	1	Sample		17052520
22	Vial 21	PCB CCV P051717I	8082-N2	1	Sample		17052521
23	Vial 22	IB	8082-N2	1	Sample	1004	17052522
24	Vial 23	MB 170524L01	8082-N2	1	Sample		17052523
25	Vial 24	LCS 170524L01	8082-N2	1	Sample		17052524
26	Vial 25	MS 17-05-1835-2	8082-N2	1	Sample		17052525
27	Vial 26	MSD 17-05-1835-2	8082-N2	1	Sample		17052526
28	Vial 27	17-05-1835-1	8082-N2	1	Sample		17052527
29	Vial 28	17-05-1835-2	8082-N2	1	Sample		17052528
30	Vial 29	17-05-1835-3	8082-N2	1	Sample		17052529
31	Vial 30	17-05-1822-1	8082-N2	1	Sample		17052530
32	Vial 31	17-05-1822-2	8082-N2	1	Sample		17052531
33	Vial 21	PCB CCV P051717I	8082-N2	1	Sample		17052532

Sequence Table (Back Injector):

No entries - empty table!





Line	Vial	File	Name	Method	InjVolume	Acquired
1	100	17052500	IB S007-62-06	8082-N2		25-May-17, 09:18:30
2	1	17052501	PCB CCV 500 PPB P P051717I	8082-N2	<i>A005</i>	25-May-17, 09:36:25
3	2	17052502	MB 170524L15	8082-N2		25-May-17, 09:54:56
4	3	17052503	LCS 170524L15	8082-N2		25-May-17, 10:12:53
5	4	17052504	17-05-1899-1	8082-N2		25-May-17, 10:31:25
6	5	17052505	17-05-1899-2	8082-N2		25-May-17, 10:49:21
7	6	17052506	17-05-1899-3	8082-N2		25-May-17, 11:07:16
8	7	17052507	17-05-1899-4	8082-N2		25-May-17, 11:25:10
9	8	17052508	17-05-1899-5	8082-N2		25-May-17, 11:43:11
10	9	17052509	17-05-1899-6	8082-N2		25-May-17, 12:01:04
11	10	17052510	17-05-1899-7	8082-N2		25-May-17, 12:19:02
12	11	17052511	17-05-1899-8	8082-N2		25-May-17, 12:36:56
13	12	17052512	17-05-1899-9	8082-N2		25-May-17, 12:54:58
14	13	17052513	17-05-1899-10	8082-N2		25-May-17, 13:12:51
15	14	17052514	17-05-1899-11	8082-N2		25-May-17, 13:30:45
16	15	17052515	17-05-1899-12	8082-N2		25-May-17, 13:48:42
17	16	17052516	MS 17-05-1899-1 170524S15	8082-N2		25-May-17, 14:06:43
18	17	17052517	MSD 17-05-1899-1 170524S15	8082-N2		25-May-17, 14:24:38
19	18	17052518	MB 170524L14	8082-N2		25-May-17, 14:42:33
20	19	17052519	LCS 170524L14	8082-N2		25-May-17, 15:00:26
21	20	17052520	MS 17-05-1718-12 170524S14	8082-N2		25-May-17, 15:18:26
22	21	17052521	MSD 17-05-1718-12 170524S14	8082-N2		25-May-17, 15:36:24
23	22	17052522	PCB CCV 500 PPB P051717I	8082-N2	<i>A006</i>	25-May-17, 15:54:18
24	23	17052523	17-05-1932-1	8082-N2		25-May-17, 16:35:33
25	24	17052524	17-05-1718-9	8082-N2		25-May-17, 16:53:28
26	25	17052525	17-05-1718-12	8082-N2		25-May-17, 18:02:49
27	26	17052526	MB 170523L12	8082-N2		25-May-17, 18:20:44
28	27	17052527	LCS 170523L12	8082-N2		25-May-17, 18:38:40
29	28	17052528	MS 17-05-1776-1 170523S12	8082-N2		25-May-17, 18:56:41
30	29	17052529	MSD 17-05-1776-1 170523S12	8082-N2		25-May-17, 19:14:36
31	30	17052530	PCB CCV 500 PPB P051717I	8082-N2		25-May-17, 19:32:29
32	31	17052531	17-05-1776-1	8082-N2	<i>A007</i>	25-May-17, 19:50:25
33	32	17052532	17-05-1776-2	8082-N2		25-May-17, 20:08:26
34	33	17052533	17-05-1776-3	8082-N2		25-May-17, 20:26:22
35	34	17052534	17-05-1776-4	8082-N2		25-May-17, 20:44:15
36	35	17052535	17-05-1776-5	8082-N2		25-May-17, 21:02:10
37	36	17052536	17-05-1776-6	8082-N2		25-May-17, 21:20:24
38	37	17052537	17-05-1776-7	8082-N2		25-May-17, 21:38:17
39	38	17052538	17-05-1776-8	8082-N2		25-May-17, 21:56:13
40	39	17052539	17-05-1776-9	8082-N2		25-May-17, 22:14:07
41	40	17052540	17-05-1776-10 -fox	8082-N2		25-May-17, 22:32:08
42	41	17052541	17-05-1776-11	8082-N2		25-May-17, 22:50:01
43	42	17052542	17-05-1776-12 -fox	8082-N2		25-May-17, 23:07:56
44	43	17052543	17-05-1776-13	8082-N2		25-May-17, 23:25:53
45	44	17052544	17-05-1776-14	8082-N2		25-May-17, 23:43:53
46	45	17052545	17-05-1776-15	8082-N2		26-May-17, 00:01:44
47	46	17052546	17-05-1776-16	8082-N2		26-May-17, 00:19:42
48	47	17052547	17-05-1776-17	8082-N2		26-May-17, 00:37:35
49	48	17052548	17-05-1776-18	8082-N2		26-May-17, 00:55:36
50	49	17052549	17-05-1776-19	8082-N2		26-May-17, 01:13:32
51	50	17052550	17-05-1776-20	8082-N2		26-May-17, 01:31:28
52	51	17052551	PCB CCV 500 PPB P051717I	8082-N2	<i>A008</i>	26-May-17, 01:49:26

Return to Contents

Line	Vial	File	Name	Method	InjVolume	Acquired
1	100	17052600	IB S007-62-06	8082-N2		26-May-17, 11:29:40
2	1	17052601	PCB CCV 500 PPB P P051717I	8082-N2		26-May-17, 11:47:36
3	2	17052602	IB	8082-N2	<i>Apog</i>	26-May-17, 12:05:31
4	3	17052603	MB 170525L01	8082-N2		26-May-17, 12:23:27
5	4	17052604	LCS 170525L01	8082-N2		26-May-17, 12:41:28
6	5	17052605	17-05-1929-1	8082-N2		26-May-17, 12:59:22
7	6	17052606	17-05-1929-2	8082-N2		26-May-17, 13:17:19
8	7	17052607	17-05-1929-3	8082-N2		26-May-17, 13:35:12
9	8	17052608	17-05-1929-4	8082-N2		26-May-17, 13:53:14
10	9	17052609	17-05-1929-5	8082-N2		26-May-17, 14:11:07
11	10	17052610	17-05-1929-6	8082-N2		26-May-17, 14:29:05
12	11	17052611	17-05-1929-7	8082-N2		26-May-17, 14:46:59
13	12	17052612	PCB CCV 500 PPB P P051717I	8082-N2	<i>Acob</i>	26-May-17, 15:05:01
14	13	17052613	IB	8082-N2		26-May-17, 15:22:54
15	14	17052614	17-05-1929-8	8082-N2		26-May-17, 15:40:51
16	15	17052615	17-05-1929-9	8082-N2		26-May-17, 15:58:45
17	16	17052616	MS 17-05-1929-1 170525S01	8082-N2		26-May-17, 16:16:48
18	17	17052617	MSD 17-05-1929-1 170525S01	8082-N2		26-May-17, 16:34:40
19	18	17052618	17-05-1776-10 10X	8082-N2		26-May-17, 16:52:35
20	19	17052619	17-05-1776-12 10X	8082-N2		26-May-17, 17:10:28
21	20	17052620	PCB CCV 500 PPB P051717I	8082-N2	<i>Acob</i>	26-May-17, 17:28:30

# EPA METHOD 8082 PCB

## Preparation Logs

Analysis Method (EPA Method):  608  8081  8082  8141  8310  TO-13  TO-4  
 8270 ( Soil  Soil SIM SUPER  PAH  SIM PAH  SIM Pest  SIM PCB cong.  SIM FL)

Extraction Method (EPA Method):  3510  3520  3540  3541  3545  3550  3580

Analyst ID#: Measuring Sample- 963 Start Extraction- 1096 Blow Down- 1115 Clean Up- 1115

Matrix:  Soil  Aqueous  Oil  Wipe  Filter  Tissue  Air

Balance ID#: 53 Filter ID#: 507-17-17 ASE ID#: 7 Soxtherm ID#: X<sup>046 523</sup> Orbit Shaker ID#: \_\_\_\_\_ Sonicator ID#: \_\_\_\_\_

Ext. Start Date/Time: 5/23/17 20:30 Ext. End Date/Time: 5/24/17-9:00

Sand or Wipe ID#: 507-64-18 Drying Agent:  Na<sub>2</sub>SO<sub>4</sub>  Diatomaceous Earth  
Drying Agent(s) ID#: 507-22-03

Surrogate Std ID# & Volume Added (mL): 5032717A 0.5mL

Spike Std ID# & Volume Added (mL): 5020317A 0.5mL Spike Added to:  LCS  LCSD  MS  MSD

Extraction Solvent:  MeCl<sub>2</sub>  1:1 Hexane-Acetone  1:1 MeCl<sub>2</sub>-Acetone  9:1 Hexane-Diethyl-ether  Acetonitrile

Extraction Solvent ID#: 507-62-06/507-44-08 Exchange Solvent ( Hexane  Acetonitrile) ID#: 507-62-06

Clean Up Start Date & Time: 5/24/17-16:00 Clean Up End Date & Time: 5/24/17-16:30

Clean Up:  3620 Florisil  3630 SGC  3660 Sulfur  3665 Acid  Other \_\_\_\_\_ Cartridge ID#: \_\_\_\_\_

Clean Up Reagent ID#: 507-52-12/507-44-11 Cartridge Conditioning Column Pre-Elution Reagent ID#: \_\_\_\_\_

MB/LCS/MS Batch #:	Sample Wt (g) / V (mL)		Clean Up Performed	Comments
	Initial	Final		
<u>170523L12</u>				
Cel ID#:				
MB	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
LCS	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
LCSD <u>NA</u>	<u>-</u>	<u>-</u>	<input type="checkbox"/>	
MS <u>17-05-1776 - 1 A</u>	<u>20.0g</u>	<u>10</u>	<input checked="" type="checkbox"/>	
MSD <u>17-05-1776 - 1 A</u>	<u>20.1g</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>17-05-1776 - 1 A</u>	<u>20.2g</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>2 A</u>	<u>20.1</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>3 A</u>	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>4 A</u>	<u>20.1</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>5 A</u>	<u>20.1</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>6 A</u>	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>7 A</u>	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>8 A</u>	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>9 A</u>	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>10 A</u>	<u>20.1</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>11 A</u>	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>12 A</u>	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	<u>Hg</u>
<u>13 A</u>	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>14 A</u>	<u>20.2</u>	<u>10</u>	<input checked="" type="checkbox"/>	<u>Hg</u>
<u>15 A</u>	<u>20.1</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>16 A</u>	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>17 A</u>	<u>20.1</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>18 A</u>	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>19 A</u>	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>20 A</u>	<u>20.1</u>	<u>10</u>	<input checked="" type="checkbox"/>	

Peer Reviewed by: 44

Peer Reviewed Date: 5/25/17.

Revision Date: 10/20/16

Analysis Method (EPA Method):  608  8081  8082  8141  8310  TO-13  TO-4  
 8270 ( Soil  Soil SIM SUPER  PAH  SIM PAH  SIM Pest  SIM PCB cong.  SIM FL )

Extraction Method (EPA Method):  3510  3520  3540  3541  3545  3550  3580

Analyst ID#: Measuring Sample- 963 Start Extraction- 1096 Blow Down- 1096 Clean Up- 963

Matrix:  Soil  Aqueous  Oil  Wipe  Filter  Tissue  Air

Balance ID#: 53 Filter ID#: 507-17-17 ASE ID#: 10 Soxtherm ID#: \_\_\_\_\_ Orbit Shaker ID#: \_\_\_\_\_ Sonicator ID#: \_\_\_\_\_

Ext. Start Date/Time: 5/23/17 20:30 Ext. End Date/Time: 5/24/17 - 9:50

Sand or Wipe ID#: 507-64-18 Drying Agent:  Na<sub>2</sub>SO<sub>4</sub>  Diatomaceous Earth  
 Drying Agent(s) ID#: 507-22-03

Surrogate Std ID# & Volume Added (mL): 5032717 A 0.5mL

Spike Std ID# & Volume Added (mL): 5020317A 0.5mL Spike Added to:  LCS  LCSD  MS  MSD

Extraction Solvent:  MeCl<sub>2</sub>  1:1 Hexane-Acetone  1:1 MeCl<sub>2</sub>-Acetone  9:1 Hexane-Diethyl-ether  Acetonitrile

Extraction Solvent ID#: 507-62-06/50744-08 Exchange Solvent ( Hexane  Acetonitrile) ID#: 507-62-22

Clean Up Start Date & Time: 5/25/17 9:45 Clean Up End Date & Time: 5/25/17 9:50

Clean Up:  3620 Florisil  3630 SGC  3660 Sulfur  3665 Acid  Other \_\_\_\_\_ Cartridge ID#: \_\_\_\_\_

Clean Up Reagent ID#: 507-52-12 Cartridge Conditioning Column Pre-Elution Reagent ID#: \_\_\_\_\_

MB/LCS/MS Batch #:	Sample <del>Wt</del> (g) / V (mL)		Clean Up Performed	Comments
	Initial	Final		
170523L13				
Cel ID#:	Initial	Final	Clean Up Performed	Comments
MB	20.0	10	<input checked="" type="checkbox"/>	
LCS	20.0	10	<input checked="" type="checkbox"/>	
LCSD <u>NA</u>	-	-	<input type="checkbox"/>	
MS <u>17-05-1776-22A</u>	20.2	10	<input checked="" type="checkbox"/>	
MSD <u>V</u>	20.0	10	<input checked="" type="checkbox"/>	
<u>17-05-1776-21A</u>	20.2	10	<input checked="" type="checkbox"/>	
<u>22</u>	20.1	10	<input checked="" type="checkbox"/>	
<u>17-05-1814-9A</u>	20.0	10	<input checked="" type="checkbox"/>	<u>extract and hold - change order.</u>
			<input type="checkbox"/>	
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Supplemental Report 1

The original report has been revised to include the Level III deliverables package.



**WORK ORDER NUMBER: 17-06-0746**

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

**Analytical Report For**

**Client:** EA Engineering

**Client Project Name:** Hazmat Survey - GPA 93156.01

**Attention:** Brenda Nuding  
615 Piikoi Street  
Suite 515  
Honolulu, HI 96814-3116

Approved for release on 07/14/2017 by:  
Carla Hollowell  
Project Manager

ResultLink ▶

Email your PM ▶

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



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Client Project Name: Hazmat Survey - GPA 93156.01  
Work Order Number: 17-06-0746

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## Work Order Narrative

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Work Order: 17-06-0746

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### **Condition Upon Receipt:**

Samples were received under Chain-of-Custody (COC) on 06/09/17. They were assigned to Work Order 17-06-0746.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

### **Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

### **Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

### **Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

### **Additional Comments:**

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



## Case Narrative

Client Project Name: Hazmat Survey - GPA 93156.01  
Work Order Number: 17-06-0746

### CONDITION UPON RECEIPT:

Eurofins Calscience, Inc. received 14 wipe samples on June 9<sup>th</sup>, 2017. A total of 14 containers were received in good condition at a temperature of 3.4°C, within the recommended temperature criteria of 0°C – 6°C.

Client Sample ID	Lab Sample ID	Date & Time Sampled	Date & Time Received
TTP-W001	17-06-0746-1	06/06/17 10:10	06/09/17 10:30
TTP-W002	17-06-0746-2	06/06/17 10:20	06/09/17 10:30
TTP-W003	17-06-0746-3	06/06/17 10:30	06/09/17 10:30
TTP-W004	17-06-0746-4	06/06/17 10:40	06/09/17 10:30
TTP-W005	17-06-0746-5	06/06/17 10:50	06/09/17 10:30
TTP-W006	17-06-0746-6	06/06/17 10:58	06/09/17 10:30
TTP-W007	17-06-0746-7	06/06/17 11:00	06/09/17 10:30
TTP-W008	17-06-0746-8	06/06/17 11:45	06/09/17 10:30
TTP-W009	17-06-0746-9	06/06/17 11:50	06/09/17 10:30
TTP-W010	17-06-0746-10	06/06/17 11:52	06/09/17 10:30
TTP-W011	17-06-0746-11	06/06/17 11:55	06/09/17 10:30
TTP-W012	17-06-0746-12	06/06/17 11:58	06/09/17 10:30
TTP-W013	17-06-0746-13	06/06/17 12:00	06/09/17 10:30
TTP-W014	17-06-0746-14	06/06/17 12:10	06/09/17 10:30

### DATA SUMMARY:

Pursuant to the chain-of-custody document, the samples were analyzed using the following methodologies:

- EPA 8082 PCB Aroclors

All samples were analyzed within the suggested EPA holding time for the requested methods unless otherwise noted.

Sample results were reported in the RL format.

Any dilutions made to the sample(s) and/or QC will be noted in the following narrative. Reporting limits have been adjusted accordingly.

Any manual integration made to the data will be noted in the following narrative. The initial and amended chromatograms have been included in the data package.

All samples and analytical QC are within acceptance criteria unless otherwise noted.

### EPA 8082 PCB Aroclors:

Samples -1 through -14 were analyzed for PCB Aroclors using EPA Method 8082. The samples were prepared on 06/13/17 and analyzed on 06/14/17 in batch # 170613L13 on GC 58.

## Case Narrative

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Client Project Name: Hazmat Survey - GPA 93156.01  
Work Order Number: 17-06-0746

Sample results were reported from the primary column (ECD2 B).

### Initial Calibration and Initial Calibration Verification:

The initial calibration was performed on 05/23/17 on GC 58. The ICAL was within the 20% RSD acceptance criteria and the ICV was within the 15% D acceptance criteria for Aroclors 1016 and 1260 on the primary column. Single point response factors were generated for all other Aroclors.

### Continuing Calibration Verification:

All values were within the 15% D acceptance criteria.

### Sample and QC:

The method blank was non-detect; the LCS/LCSD and surrogate recoveries were within acceptance criteria.

Manual integration was performed on one or more samples to correct the peak ID and/or baseline integration.



## Sample Summary

Client: EA Engineering	Work Order: 17-06-0746
615 Piikoi Street, Suite 515	Project Name: Hazmat Survey - GPA 93156.01
Honolulu, HI 96814-3116	PO Number: 16405
	Date/Time Received: 06/09/17 10:30
	Number of Containers: 14

Attn: Brenda Nuding

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
TTP-W001	17-06-0746-1	06/06/17 10:10	1	Wipe
TTP-W002	17-06-0746-2	06/06/17 10:20	1	Wipe
TTP-W003	17-06-0746-3	06/06/17 10:30	1	Wipe
TTP-W004	17-06-0746-4	06/06/17 10:40	1	Wipe
TTP-W005	17-06-0746-5	06/06/17 10:50	1	Wipe
TTP-W006	17-06-0746-6	06/06/17 10:58	1	Wipe
TTP-W007	17-06-0746-7	06/06/17 11:00	1	Wipe
TTP-W008	17-06-0746-8	06/06/17 11:45	1	Wipe
TTP-W009	17-06-0746-9	06/06/17 11:50	1	Wipe
TTP-W010	17-06-0746-10	06/06/17 11:52	1	Wipe
TTP-W011	17-06-0746-11	06/06/17 11:55	1	Wipe
TTP-W012	17-06-0746-12	06/06/17 11:58	1	Wipe
TTP-W013	17-06-0746-13	06/06/17 12:00	1	Wipe
TTP-W014	17-06-0746-14	06/06/17 12:10	1	Wipe

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### Analytical Report

EA Engineering	Date Received:	06/09/17
615 Piikoi Street, Suite 515	Work Order:	17-06-0746
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/smpl

Project: Hazmat Survey - GPA 93156.01 Page 1 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>TTP-W001</b>	<b>17-06-0746-1-A</b>	<b>06/06/17 10:10</b>	<b>Wipe</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 18:21</b>	<b>170613L13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	103	50-130	
2,4,5,6-Tetrachloro-m-Xylene	88	50-130	

<b>TTP-W002</b>	<b>17-06-0746-2-A</b>	<b>06/06/17 10:20</b>	<b>Wipe</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 18:39</b>	<b>170613L13</b>
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Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	95	50-130	
2,4,5,6-Tetrachloro-m-Xylene	78	50-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





### Analytical Report

EA Engineering	Date Received:	06/09/17
615 Piikoi Street, Suite 515	Work Order:	17-06-0746
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/smpl

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>TTP-W003</b>	<b>17-06-0746-3-A</b>	<b>06/06/17 10:30</b>	<b>Wipe</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 18:57</b>	<b>170613L13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	76	50-130	
2,4,5,6-Tetrachloro-m-Xylene	61	50-130	

<b>TTP-W004</b>	<b>17-06-0746-4-A</b>	<b>06/06/17 10:40</b>	<b>Wipe</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 19:15</b>	<b>170613L13</b>
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Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	112	50-130	
2,4,5,6-Tetrachloro-m-Xylene	92	50-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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## Analytical Report

EA Engineering  
615 Piikoi Street, Suite 515  
Honolulu, HI 96814-3116

Date Received: 06/09/17  
Work Order: 17-06-0746  
Preparation: EPA 3545  
Method: EPA 8082  
Units: ug/smpl

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>TTP-W005</b>	<b>17-06-0746-5-A</b>	<b>06/06/17 10:50</b>	<b>Wipe</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 19:33</b>	<b>170613L13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	113	50-130	
2,4,5,6-Tetrachloro-m-Xylene	92	50-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>TTP-W006</b>	<b>17-06-0746-6-A</b>	<b>06/06/17 10:58</b>	<b>Wipe</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 19:51</b>	<b>170613L13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	108	50-130	
2,4,5,6-Tetrachloro-m-Xylene	90	50-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



### Analytical Report

EA Engineering	Date Received:	06/09/17
615 Piikoi Street, Suite 515	Work Order:	17-06-0746
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/smpl

Project: Hazmat Survey - GPA 93156.01 Page 4 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>TTP-W007</b>	<b>17-06-0746-7-A</b>	<b>06/06/17 11:00</b>	<b>Wipe</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 20:08</b>	<b>170613L13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	5.7	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	130	50-130	
2,4,5,6-Tetrachloro-m-Xylene	98	50-130	

TTP-W008	17-06-0746-8-A	06/06/17 11:45	Wipe	GC 58	06/13/17	06/14/17 20:26	170613L13
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Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	85	50-130	
2,4,5,6-Tetrachloro-m-Xylene	68	50-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





### Analytical Report

EA Engineering	Date Received:	06/09/17
615 Piikoi Street, Suite 515	Work Order:	17-06-0746
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/smpl

Project: Hazmat Survey - GPA 93156.01 Page 5 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>TTP-W009</b>	<b>17-06-0746-9-A</b>	<b>06/06/17 11:50</b>	<b>Wipe</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 20:44</b>	<b>170613L13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	109	50-130	
2,4,5,6-Tetrachloro-m-Xylene	88	50-130	

TTP-W010	17-06-0746-10-A	06/06/17 11:52	Wipe	GC 58	06/13/17	06/14/17 21:02	170613L13
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Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	111	50-130	
2,4,5,6-Tetrachloro-m-Xylene	71	50-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.







### Analytical Report

EA Engineering	Date Received:	06/09/17
615 Piikoi Street, Suite 515	Work Order:	17-06-0746
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/smpl

Project: Hazmat Survey - GPA 93156.01 Page 6 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>TTP-W011</b>	<b>17-06-0746-11-A</b>	<b>06/06/17 11:55</b>	<b>Wipe</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 21:21</b>	<b>170613L13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	93	50-130	
2,4,5,6-Tetrachloro-m-Xylene	64	50-130	

TTP-W012	17-06-0746-12-A	06/06/17 11:58	Wipe	GC 58	06/13/17	06/14/17 21:39	170613L13
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Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	106	50-130	
2,4,5,6-Tetrachloro-m-Xylene	71	50-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





### Analytical Report

EA Engineering	Date Received:	06/09/17
615 Piikoi Street, Suite 515	Work Order:	17-06-0746
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/smpl

Project: Hazmat Survey - GPA 93156.01 Page 7 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>TTP-W013</b>	<b>17-06-0746-13-A</b>	<b>06/06/17 12:00</b>	<b>Wipe</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 21:56</b>	<b>170613L13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	117	50-130	
2,4,5,6-Tetrachloro-m-Xylene	77	50-130	

TTP-W014	17-06-0746-14-A	06/06/17 12:10	Wipe	GC 58	06/13/17	06/14/17 22:14	170613L13
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Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	115	50-130	
2,4,5,6-Tetrachloro-m-Xylene	74	50-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

EA Engineering	Date Received:	06/09/17
615 Piikoi Street, Suite 515	Work Order:	17-06-0746
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/smpl

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-12-582-537</b>	<b>N/A</b>	<b>Filter</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 17:45</b>	<b>170613L13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	81	50-130	
2,4,5,6-Tetrachloro-m-Xylene	81	50-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



### Quality Control - LCS/LCSD

EA Engineering  
 615 Piikoi Street, Suite 515  
 Honolulu, HI 96814-3116

Date Received: 06/09/17  
 Work Order: 17-06-0746  
 Preparation: EPA 3545  
 Method: EPA 8082

Project: Hazmat Survey - GPA 93156.01

Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-582-537	LCS	Filter	GC 58	06/13/17	06/14/17 22:32	170613L13
099-12-582-537	LCSD	Filter	GC 58	06/13/17	06/14/17 22:50	170613L13

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	2.000	1.510	76	1.610	80	50-135	6	0-25	
Aroclor-1260	2.000	1.380	69	1.530	76	50-135	10	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

## Glossary of Terms and Qualifiers

Work Order: 17-06-0746

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494  
For courier service / sample drop off information, contact us@eurofins.com or call us.

LABORATORY CLIENT: EA Engineering, Science, and Technology, Inc. PBC

ADDRESS: 1001 Army Drive, Suite 103

CITY: Barrigada STATE: GU ZIP: 96913

TEL: 671-646-5231 E-MAIL: rshambach@eaest.com, bnuiding@eaest.com

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

# CHAIN OF CUSTODY RECORD

DATE: 06/06/17

PAGE: 1 OF 1

WO # / LAB USE ONLY  
**17-06-0746**

CLIENT PROJECT NAME / NUMBER:

Hazmat Survey - GPA 63156.01

PROJECT CONTACT:

Brenda Nuding (Chemist); Bob Shambach (PM)

P.O. NO.:

16405

SAMPLER(S): (PRINT)

Robert Shambach/Jaquay Soriano

## REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	DATE	TIME	MATRIX	NO. OF CONT.	Field Filtered	Preserved (C <sub>6</sub> H <sub>4</sub> )	Unpreserved	TPH (g) <input type="checkbox"/> GRO	TPH (d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6
1	TTP-W001	6/6/2017	1010	WIPE	1		X											X			
2	TTP-W002	6/6/2017	1020	WIPE	1		X											X			
3	TTP-W003	6/6/2017	1030	WIPE	1		X											X			
4	TTP-W004	6/6/2017	1040	WIPE	1		X											X			
5	TTP-W005	6/6/2017	1050	WIPE	1		X											X			
6	TTP-W006	6/6/2017	1058	WIPE	1		X											X			
7	TTP-W007	6/6/2017	1100	WIPE	1		X											X			
8	TTP-W008	6/6/2017	1145	WIPE	1		X											X			
9	TTP-W009	6/6/2017	1150	WIPE	1		X											X			
10	TTP-W010	6/6/2017	1152	WIPE	1		X											X			
11	TTP-W011	6/6/2017	1155	WIPE	1		X											X			
12	TTP-W012	6/6/2017	1158	WIPE	1		X											X			
13	TTP-W013	6/6/2017	1200	WIPE	1		X											X			
14	TTP-W014	6/6/2017	1210	WIPE	1		X											X			

Received by: (Signature/Affiliation)

Date: 6/9/17 Time: 1030

Received by: (Signature/Affiliation)

Date: 6/9/17 Time: 1030

Received by: (Signature/Affiliation)

Date: 6/9/17 Time: 1030

Relinquished by: (Signature) 6/11/17 1100

Relinquished by: (Signature)

Relinquished by: (Signature)

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06/02/14 Revision

Form 5599 Rev 7/02/14 1223

07HG

# FedEx Express International Air Waybill

FedEx Tracking Number: **8088 0762 4481** Form ID No: **0402** **Origin Copy**

**1 From**  
 Date: 04/27/14 Sender's FedEx Account Number: 3175 5776-0  
 Sender's Name: Shooka Technology Phone: 6716469231  
 Company: EA King, Inc. P.O. Box 1100  
 Address: 101 Army Ave Suite 103  
 Address:  
 City: Lawrence State: OH  
 Country: 90913 ZIP Postal Code:

**4 Express Package Service**  
 1  FedEx Intl. Priority 6  FedEx Intl. First Available to select locations.  
 3  FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

**Packages up to 150 lbs. / 68 kg**  
 For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.  
 Not all services and options are available to all destinations. Dangerous goods can be shipped using the Air Waybill.

**2 To**  
 Recipient's Name: Carla Lee Hollardell Phone: 714 9955444  
 Company: Enviros Cal Science, Inc  
 Address: 7440 Lincoln Way  
 Address:  
 City: Garden Grove State: CA  
 Country: USA ZIP Postal Code: 92841

**5 Packaging**  
 \*These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.  
 6  FedEx Envelope 2  FedEx Pak 3  FedEx Box 4  FedEx Tube  
 1  Other coolbox PW  FedEx 10kg Box\* PX  FedEx 25kg Box\*

**6 Special Handling**  
 1  HOLD at FedEx Location 3  SATURDAY Delivery Available to select locations for FedEx Intl. Priority only.

**7 Payment**  
 Complete payment options for both transportation charges and duties and taxes.  
 Bill transportation charges to:  
 Enter FedEx Acct. No. or Credit Card No. below.  
 1  Sender Acct. No. in Section 1 will be billed. 2  Recipient 3  Third Party 4  Credit Card 5  Cash Check/Cheque  
 FedEx Acct. No.: 3175-5776-0  
 Credit Card Exp. Date: \_\_\_\_\_ Specify Currency: \_\_\_\_\_

**Bill duties and taxes to:** ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.  
 1  Sender Acct. No. in Section 1 will be billed. 2  Recipient 3  Third Party 5  Check/Cheque  
 FedEx Acct. No.: \_\_\_\_\_

**8 Your Internal Billing Reference**  
 First 24 characters will appear on invoice.  
6315601

**3 Shipment Information**  For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages: 1 Total Weight: 22 lbs.  kg  DIM: 15, 11, 17 in.  cm

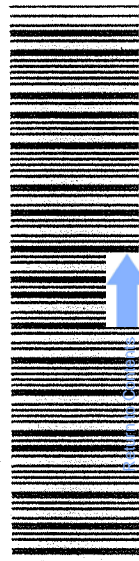
Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
<u>Environmental sample</u>		<u>USA</u>	<u>1.00</u>

Has EEI been filed in AES? For U.S. Export Only: Check One  
 No EEI required, value \$2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.  Total Declared Value for Carriage: 1.00  
 No EEI required, enter exemption number: \_\_\_\_\_ If other than NLR, enter License Exception: \_\_\_\_\_  
 Yes - Enter AES proof of filing citation: \_\_\_\_\_

**9 Required Signature**  
 Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.  
 Sender's Signature: [Signature]  
 This is not authorization to deliver this shipment without a recipient signature.  
 Received above shipment in good order and condition. We agree to pay all charges, including Customs duties and taxes as applicable, and we agree to the Conditions of Carriage as stated on the reverse side of the Recipient's Copy.

Recipient's Signature: \_\_\_\_\_  
 FedEx Tracking Number: **8088 0762 4481 0402**

Origin Station ID: GUWA Country Code/Destination Station ID: APVA WZAPVA URSA Routing: \_\_\_\_\_  
 Handling Units: \_\_\_\_\_ Total Volume (cm): \_\_\_\_\_  
 Received At: 1  Reg. Stop 2  On-Call Stop 3  Drop Box 4  World Service Center 5  Station  
 Base Charges: \_\_\_\_\_ Declared Val. Chrg.: \_\_\_\_\_ Other: \_\_\_\_\_ ODA/OPA: \_\_\_\_\_ Credit Card Auth.: \_\_\_\_\_  
 FedEx Emp. #: \_\_\_\_\_ Audit Emp. #: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Del. Courier Emp. #: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_



568  
 PART 15600 Rev. Date 11/08 ©1994-2008 FedEx PRINTED IN CHINA  
 Form ID No.

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: EAE

DATE: 06/09/2017

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)
Thermometer ID: SC3 (CF: 0.0°C); Temperature (w/o CF): 3.4 °C (w/ CF): 3.4 °C;
Sample(s) outside temperature criteria (PM/APM contacted by: )
Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling
Sample(s) received at ambient temperature; placed on ice for transport by courier
Ambient Temperature: Air Filter
Checked by: JS

CUSTODY SEAL:
Cooler Present and Intact Present but Not Intact Not Present N/A
Sample(s) Present and Intact Present but Not Intact Not Present N/A
Checked by: JS
Checked by: 1053

SAMPLE CONDITION:
Chain-of-Custody (COC) document(s) received with samples
COC document(s) received complete
Sampling date Sampling time Matrix Number of containers
No analysis requested Not relinquished No relinquished date No relinquished time
Sampler's name indicated on COC
Sample container label(s) consistent with COC
Sample container(s) intact and in good condition
Proper containers for analyses requested
Sufficient volume/mass for analyses requested
Samples received within holding time
Aqueous samples for certain analyses received within 15-minute holding time
pH Residual Chlorine Dissolved Sulfide Dissolved Oxygen
Proper preservation chemical(s) noted on COC and/or sample container
Unpreserved aqueous sample(s) received for certain analyses
Volatile Organics Total Metals Dissolved Metals
Container(s) for certain analysis free of headspace
Volatile Organics Dissolved Gases (RSK-175) Dissolved Oxygen (SM 4500)
Carbon Dioxide (SM 4500) Ferrous Iron (SM 3500) Hydrogen Sulfide (Hach)
Tedlar bag(s) free of condensation

CONTAINER TYPE: (Trip Blank Lot Number: )
Aqueous: VOA VOAh VOAna2 100PJ 100PJna2 125AGB 125AGBh 125AGBp 125PB
125PBzanna 250AGB 250CGB 250CGBs 250PB 250PBn 500AGB 500AGJ 500AGJs
500PB 1AGB 1AGBna2 1AGBs 1PB 1PBna
Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve EnCores TerraCores
Air: Tedlar Canister Sorbent Tube PUF Other Matrix (Wipe): 20265
Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag
Preservative: b = buffered, f = filtered, h = HCl, n = HNO3, na = NaOH, na2 = Na2S2O3, p = H3PO4,
s = H2SO4, u = ultra-pure, x = Na2SO3+NaHSO4.H2O, zanna = Zn (CH3CO2)2 + NaOH
Labeled/Checked by: 1053
Reviewed by: 718

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# EPA METHOD 8082 PCB

## RAW DATA

# EPA METHOD 8082 PCB

## Initial Calibration

# INITIAL CALIBRATION QUALITY CONTROL SUMMARY FOR METHOD: EPA 8082

ICAL WORK ORDER: 099-12-532-9695-5154  
ICAL BATCH ID: 1705231001  
INSTRUMENT: GC 58

ANALYZED BY: 944  
ICAL D/T ANALYZED: 2017-05-23 16:52  
REVIEWED BY: 27  
D/T REVIEWED: 2017-05-25 15:00

COMPOUND	COMP. TYPE	CALIB. MODEL	1	2	3	4	5	6	7	8	9	Avg. RF	Min. RF	%RSD CL	R or R <sup>2</sup> CL	R or R <sup>2</sup> CL	STATUS
Aroclor-1016	C	Avg RF	12,629,020	11,845,920	11,407,39	11,131,629	10,519,18					11,50	0.00	7	0-20		PASS
Aroclor-1260	C	Avg RF	12,025,801	11,613,887	11,485,66	11,435,616	11,124,28					11,53	0.00	3	0-20		PASS

**Data Files:**

Level #	D/T Analyzed	Data File
1	2017-05-23 16:52	/chem1/SVOA/GC_58/170523/b1705232117052321
2	2017-05-23 17:09	/chem1/SVOA/GC_58/170523/b1705232217052322
3	2017-05-23 17:27	/chem1/SVOA/GC_58/170523/b1705232317052323
4	2017-05-23 17:45	/chem1/SVOA/GC_58/170523/b1705232417052324
5	2017-05-23 18:03	/chem1/SVOA/GC_58/170523/b1705232517052325

LR - E: Linear Regression (Equal Weight)  
Avg RF: Average Response Factor

LR - IC: Linear Regression (Inverse Concentration Weight)  
QR - E: Quadratic Regression (Equal Weight)

LR - ISC: Linear Regression (Inverse Square Concentration Weight)



# INITIAL CALIBRATION VERIFICATION QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**ICV WORK ORDER:** 099-12-532-9695-5154  
**INITIAL BATCH:** 170523I001  
**INSTRUMENT:** GC 58

**ANALYZED BY:** 944  
**D/T ANALYZED:**  
**INITIAL:** 2017-05-23 16:52  
**ICV:** 2017-05-23 18:21  
**REVIEWED BY:** 27  
**D/T REVIEWED:** 2017-05-25 15:00

**DATA FILE:** /chem1/SVOA/GC\_58/170523/b1705232617052326

COMPOUND NAME	COMP TYPE	CALIB MODEL	MIN RF	AVG RF	ICV RF	AMOUNT	ICV CONC	ICV %D	ICV %D CL	STATUS
Aroclor-1016	C	Avg Resp	0.00	11506630.029	10890471.982			5	0-15	PASS
Aroclor-1260	C	Avg Resp	0.00	11537050.448	11170168.146			3	0-15	PASS

MIN RF: Method Specified Minimum Response Factor

Report Date : 24-May-2017 09:27

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Eurofins Calscience

INITIAL CALIBRATION DATA

Start Cal Date : 04-OCT-2016 21:49  
 End Cal Date : 23-MAY-2017 19:33  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP Genie  
 Method file : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Cal Date : 24-May-2017 09:23 src3  
 Curve Type : Average

Calibration File Names:

Level 1: /chem1/SVOA/GC\_58.i/170523.b/b17052321.d  
 Level 2: /chem1/SVOA/GC\_58.i/170523.b/b17052322.d  
 Level 3: /chem1/SVOA/GC\_58.i/170523.b/b17052330.d  
 Level 4: /chem1/SVOA/GC\_58.i/170523.b/b17052324.d  
 Level 5: /chem1/SVOA/GC\_58.i/170523.b/b17052325.d

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	750.000 Level 4	2000.000 Level 5	RRF	% RSD
M 2 Aroclor-1016	12629020	11845920	11407396	11131629	10519185	11506630	7
3 Aroclor 1016 (1)	1275851	1161391	1113125	1071210	992956	1122907	9
4 Aroclor 1016 (2)	2377611	2184364	2068157	2011631	1881082	2104569	9
5 Aroclor 1016 (3)	5059544	4830067	4700531	4612008	4400578	4720545	5
6 Aroclor 1016 (4)	2197630	2055262	1969215	1911632	1795295	1985807	8
7 Aroclor 1016 (5)	1718384	1614836	1556368	1525148	1449274	1572802	6
M 8 Aroclor-1260	12025801	11613887	11485667	11435616	11124282	11537050	3
9 Aroclor 1260 (1)	3691129	3515766	3438557	3387146	3217391	3449998	5
10 Aroclor 1260 (2)	2659167	2573955	2550872	2540602	2476520	2560223	3
11 Aroclor 1260 (3)	2908393	2863443	2866327	2871017	2822302	2866296	1
12 Aroclor 1260 (4)	833938	805816	804541	807016	800493	810361	2
13 Aroclor 1260 (5)	1933175	1854906	1825369	1829835	1807576	1850172	3
M 14 Aroclor-1221	+++++	+++++	3462658	+++++	+++++	3462658	0
15 Aroclor 1221 (1)	+++++	+++++	518215	+++++	+++++	518215	0
16 Aroclor 1221 (2)	+++++	+++++	663496	+++++	+++++	663496	0
17 Aroclor 1221 (3)	+++++	+++++	434398	+++++	+++++	434398	0
18 Aroclor 1221 (4)	+++++	+++++	1576396	+++++	+++++	1576396	0
19 Aroclor 1221 (5)	+++++	+++++	270153	+++++	+++++	270153	0
M 20 Aroclor-1232	+++++	+++++	6456218	+++++	+++++	6456218	0
21 Aroclor 1232 (1)	+++++	+++++	1260285	+++++	+++++	1260285	0
22 Aroclor 1232 (2)	+++++	+++++	1099941	+++++	+++++	1099941	0
23 Aroclor 1232 (3)	+++++	+++++	2339921	+++++	+++++	2339921	0



Report Date : 24-May-2017 09:27

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INITIAL CALIBRATION DATA

Start Cal Date : 04-OCT-2016 21:49  
 End Cal Date : 23-MAY-2017 19:33  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP Genie  
 Method file : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Cal Date : 24-May-2017 09:23 src3  
 Curve Type : Average

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	750.000 Level 4	2000.000 Level 5	RRF	% RSD
24 Aroclor 1232 (4)	++++	++++	985728	++++	++++	985728	0
25 Aroclor 1232 (5)	++++	++++	770342	++++	++++	770342	0
M 26 Aroclor-1242	++++	++++	10779025	++++	++++	10779025	0
27 Aroclor 1242 (1)	++++	++++	1016454	++++	++++	1016454	0
28 Aroclor 1242 (2)	++++	++++	1974329	++++	++++	1974329	0
29 Aroclor 1242 (3)	++++	++++	4443459	++++	++++	4443459	0
30 Aroclor 1242 (4)	++++	++++	1865322	++++	++++	1865322	0
31 Aroclor 1242 (5)	++++	++++	1479460	++++	++++	1479460	0
M 32 Aroclor-1248	++++	++++	8585613	++++	++++	8585613	0
33 Aroclor 1248 (1)	++++	++++	2474351	++++	++++	2474351	0
34 Aroclor 1248 (2)	++++	++++	1190568	++++	++++	1190568	0
35 Aroclor 1248 (3)	++++	++++	930097	++++	++++	930097	0
36 Aroclor 1248 (4)	++++	++++	1855416	++++	++++	1855416	0
37 Aroclor 1248 (5)	++++	++++	2135181	++++	++++	2135181	0
M 38 Aroclor-1254	++++	++++	13026379	++++	++++	13026379	0
39 Aroclor 1254 (1)	++++	++++	2214930	++++	++++	2214930	0
40 Aroclor 1254 (2)	++++	++++	1158657	++++	++++	1158657	0
41 Aroclor 1254 (3)	++++	++++	3844996	++++	++++	3844996	0
42 Aroclor 1254 (4)	++++	++++	2737908	++++	++++	2737908	0
43 Aroclor 1254 (5)	++++	++++	3069887	++++	++++	3069887	0
M 44 Aroclor-1262	++++	++++	15048272	++++	++++	15048272	0
45 Aroclor 1262 (1)	++++	++++	2890494	++++	++++	2890494	0
46 Aroclor 1262 (2)	++++	++++	3951702	++++	++++	3951702	0
47 Aroclor 1262 (3)	++++	++++	3759808	++++	++++	3759808	0
48 Aroclor 1262 (4)	++++	++++	1278171	++++	++++	1278171	0
49 Aroclor 1262 (5)	++++	++++	3168097	++++	++++	3168097	0
M 50 Aroclor-1268	++++	++++	53468144	++++	++++	53468144	0
51 Aroclor 1268 (1)	++++	++++	8674570	++++	++++	8674570	0
52 Aroclor 1268 (2)	++++	++++	11177203	++++	++++	11177203	0



Report Date : 24-May-2017 09:27

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INITIAL CALIBRATION DATA

Start Cal Date : 04-OCT-2016 21:49  
 End Cal Date : 23-MAY-2017 19:33  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP Genie  
 Method file : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Cal Date : 24-May-2017 09:23 src3  
 Curve Type : Average

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	750.000 Level 4	2000.000 Level 5	RRF	% RSD
53 Aroclor 1268 (3)	+++++	+++++	7082776	+++++	+++++	7082776	0
54 Aroclor 1268 (4)	+++++	+++++	3296595	+++++	+++++	3296595	0
55 Aroclor 1268 (5)	+++++	+++++	23237000	+++++	+++++	23237000	0
T 1 2,4,5,6-Tetrachloro-m-xylene	63321784	63478698	63826321	63339394	62957426	63384725	0
T 56 Decachlorobiphenyl	61719589	61974262	62633351	62943146	62919173	62437904	1



Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052326.d  
 Report Date: 05/24/2017 09:23

Eurofins CalScience  
 Calibration Verification Report

Instrument ID: GC\_58.i Injection Date and Time: 23-MAY-2017 18:21  
 Sample Name: PCB ICV 500 PPB P051717H Initial Calibration Date(s): 04-OCT-2016 23-MAY-2017  
 Sublist used: p1016\_1260.sub Initial Calibration Time(s): 21:49 19:33  
 Method used: /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D /Drift	Curve Type
Aroclor-1016	11506630.029	10890471.982	0.01	5	15	Averaged
Aroclor 1016 (1)	1122906.647	1035817.970	0.01	8	15	Averaged
Aroclor 1016 (2)	2104568.955	1977536.926	0.01	6	15	Averaged
Aroclor 1016 (3)	4720545.338	4517671.304	0.01	4	15	Averaged
Aroclor 1016 (4)	1985806.908	1875226.762	0.01	6	15	Averaged
Aroclor 1016 (5)	1572802.181	1484219.020	0.01	6	15	Averaged
Aroclor 1260 (4)	810360.902	741063.920	0.01	9	15	Averaged
Aroclor-1260	11537050.448	11170168.146	0.01	3	15	Averaged
Aroclor 1260 (5)	1850172.206	1784845.724	0.01	4	15	Averaged
Aroclor 1260 (1)	3449997.793	3437974.978	0.01	0	15	Averaged
Aroclor 1260 (2)	2560223.179	2427602.878	0.01	5	15	Averaged
Aroclor 1260 (3)	2866296.368	2778680.646	0.01	3	15	Averaged
Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D /Drift	Curve Type
2,4,5,6-Tetrachloro-m-xylene	63384724.531	63028884.615	0.01	1	15	Averaged
Decachlorobiphenyl	62437904.265	63909836.622	0.01	-2	15	Averaged





Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052321.d  
Report Date: 24-May-2017 09:21

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052321.d  
Lab Smp Id:  
Inj Date : 23-MAY-2017 16:52  
Operator : 944 Inst ID: GC\_58.i  
Smp Info : PCB ICAL-1 100 PPB P051717F  
Misc Info :  
Comment : Rtx-CLPesticide II  
Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
Cal Date : 23-MAY-2017 16:52 Cal File: b17052321.d  
Als bottle: 21 Calibration Sample, Level: 1  
Dil Factor: 1.00000  
Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
Target Version: 3.50  
Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.742	4.738	0.004	1266435675	20.0000	20.0
M 2 Aroclor-1016				1262902010	100.000	110
3 Aroclor 1016 (1)	5.453	5.450	0.003	127585119	100.000	114
4 Aroclor 1016 (2)	5.999	5.995	0.004	237761116	100.000	113
5 Aroclor 1016 (3)	6.582	6.579	0.003	505954363	100.000	107
6 Aroclor 1016 (4)	6.753	6.749	0.004	219763021	100.000	111
7 Aroclor 1016 (5)	6.879	6.876	0.003	171838391	100.000	109
M 8 Aroclor-1260				1202580069	100.000	104
9 Aroclor 1260 (1)	9.063	9.056	0.007	369112907	100.000	107
10 Aroclor 1260 (2)	9.575	9.569	0.006	265916660	100.000	104
11 Aroclor 1260 (3)	9.915	9.908	0.007	290839258	100.000	101
12 Aroclor 1260 (4)	11.089	11.081	0.008	83393780	100.000	103
13 Aroclor 1260 (5)	11.271	11.264	0.007	193317464	100.000	104
T 56 Decachlorobiphenyl	11.925	11.920	0.005	1234391790	20.0000	19.8



Data File: /chem1/SVDA/GC\_58.i/170523.br/b17052321.d

Date : 23-MAY-2017 16:52

Client ID:

Sample Info: PCB IOAL-1 100 PPB P051717F

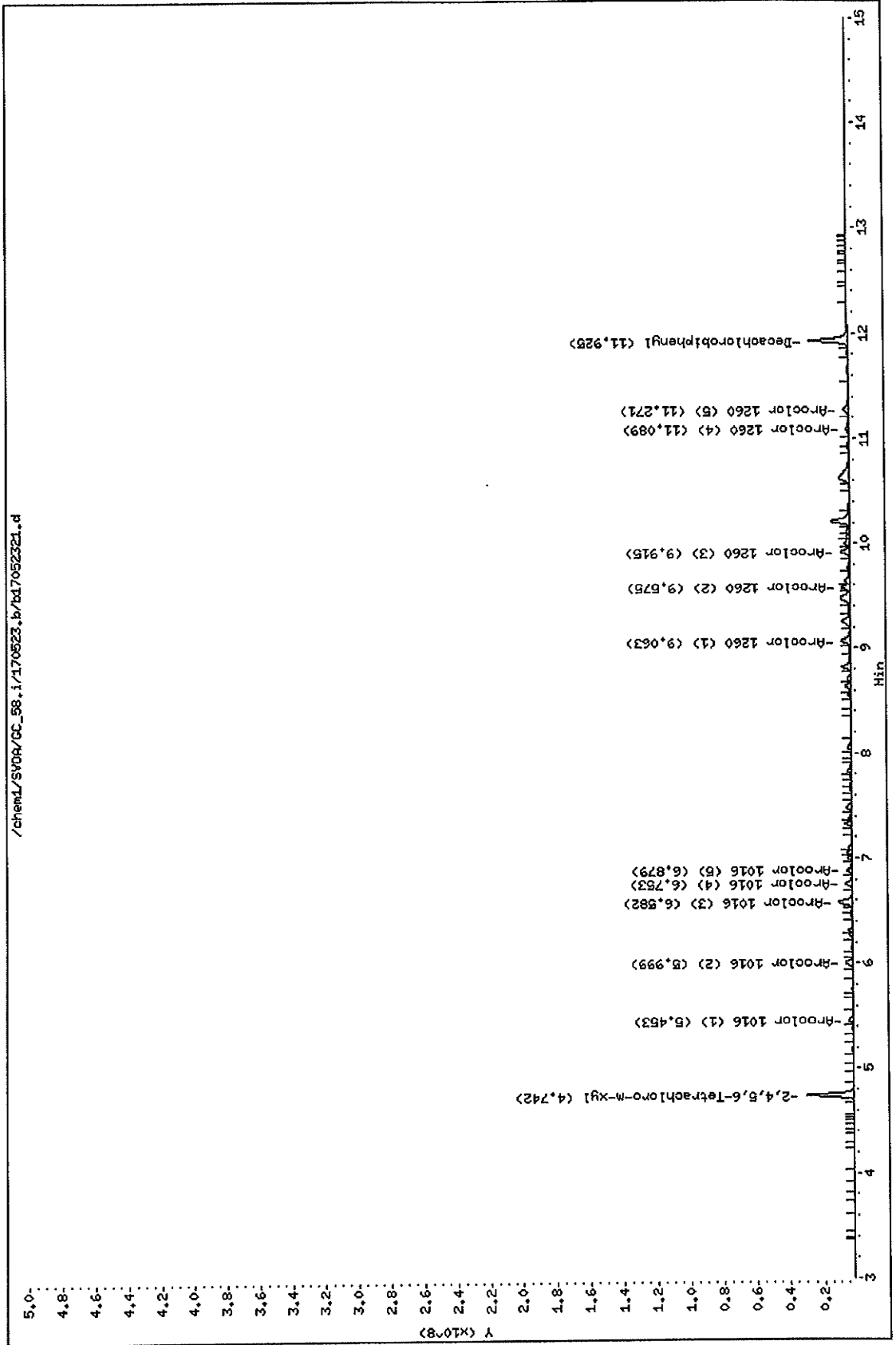
Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:

/chem1/SVDA/GC\_58.i/170523.br/b17052321.d



Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052322.d  
Report Date: 24-May-2017 09:21

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052322.d  
Lab Smp Id:  
Inj Date : 23-MAY-2017 17:09  
Operator : 944 Inst ID: GC\_58.i  
Smp Info : PCB ICAL-2 250 PPB P051717E  
Misc Info :  
Comment : Rtx-CLPesticide II  
Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
Cal Date : 23-MAY-2017 17:09 Cal File: b17052322.d  
Als bottle: 22 Calibration Sample, Level: 2  
Dil Factor: 1.00000  
Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
Target Version: 3.50  
Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RT	RESPONSE	AMOUNTS	
						CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.739	4.738	0.001	3173934907	50.0000	50.1	
M 2 Aroclor-1016				2961479920	250.000	257	
3 Aroclor 1016 (1)	5.450	5.450	0.000	290347764	250.000	258	
4 Aroclor 1016 (2)	5.996	5.995	0.001	546090953	250.000	259	
5 Aroclor 1016 (3)	6.579	6.579	0.000	1207516690	250.000	256	
6 Aroclor 1016 (4)	6.749	6.749	0.000	513815568	250.000	259	
7 Aroclor 1016 (5)	6.876	6.876	0.000	403708945	250.000	257	
M 8 Aroclor-1260				2903471671	250.000	252	
9 Aroclor 1260 (1)	9.058	9.056	0.002	878941559	250.000	255	
10 Aroclor 1260 (2)	9.571	9.569	0.002	643488861	250.000	251	
11 Aroclor 1260 (3)	9.910	9.908	0.002	715860856	250.000	250	
12 Aroclor 1260 (4)	11.084	11.081	0.003	201454010	250.000	248	
13 Aroclor 1260 (5)	11.267	11.264	0.003	463726385	250.000	251	
T 56 Decachlorobiphenyl	11.922	11.920	0.002	3098713090	50.0000	49.6	

Data File: /chem/SV04/GC\_58.i/170523.b/b17052322.d

Date : 23-MAY-2017 17:09

Client ID:

Sample Info: PCB ICAL-2 250 PPB P051717E

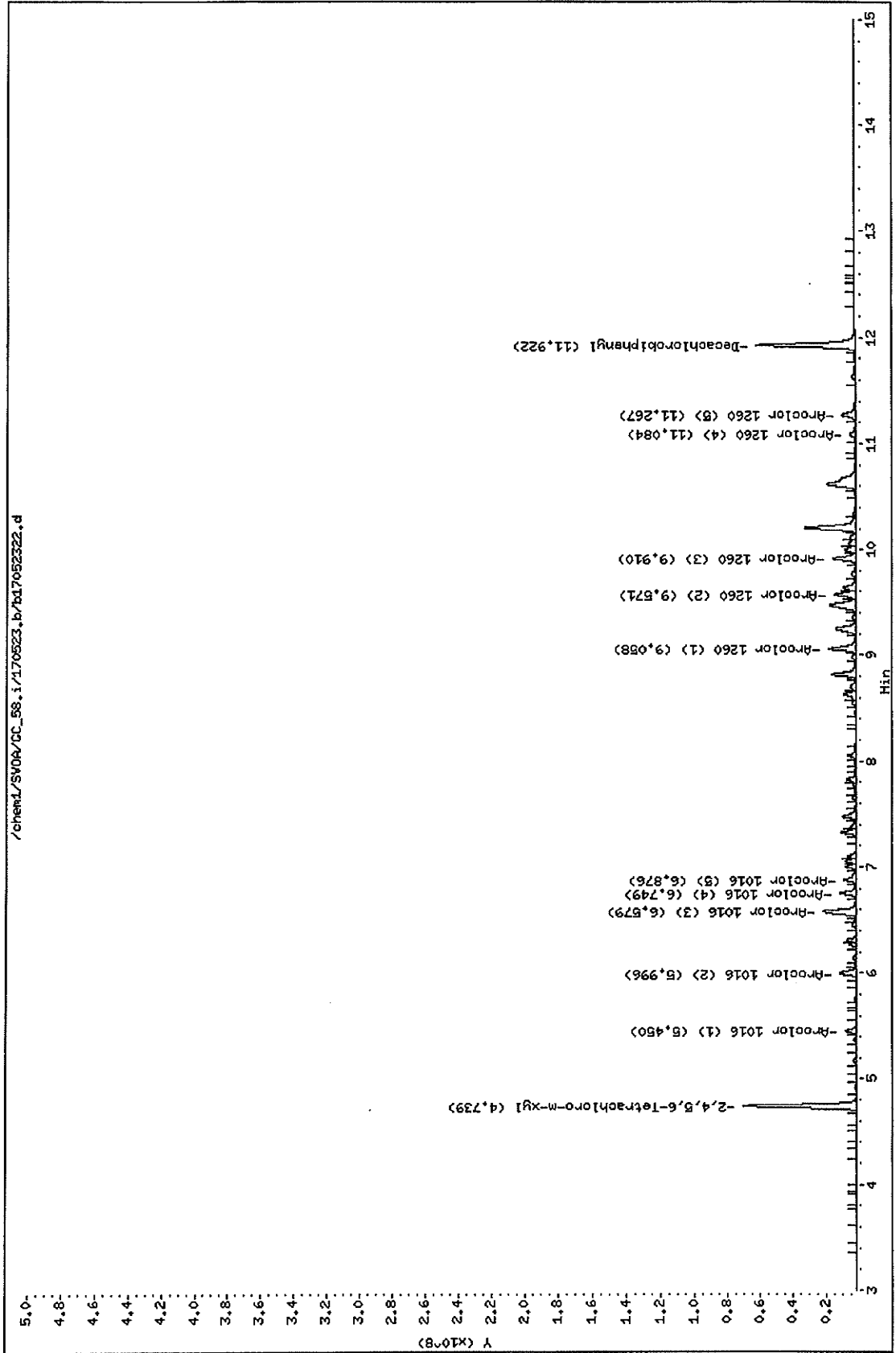
Column phase:

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

/chem/SV04/GC\_58.i/170523.b/b17052322.d



Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052323.d  
 Report Date: 24-May-2017 09:21

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052323.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 17:27  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB ICAL-3 500 PPB P051717D  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 23 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.738	4.738	0.000	6382632089	100.000	101
M 2 Aroclor-1016				5703698032	500.000	496
3 Aroclor 1016 (1)	5.450	5.450	0.000	556562512	500.000	496
4 Aroclor 1016 (2)	5.995	5.995	0.000	1034078575	500.000	491
5 Aroclor 1016 (3)	6.579	6.579	0.000	2350265312	500.000	498
6 Aroclor 1016 (4)	6.749	6.749	0.000	984607395	500.000	496
7 Aroclor 1016 (5)	6.875	6.876	-0.001	778184238	500.000	495
M 8 Aroclor-1260				5742833471	500.000	498
9 Aroclor 1260 (1)	9.056	9.057	-0.001	1719278633	500.000	498
10 Aroclor 1260 (2)	9.569	9.570	-0.001	1275435860	500.000	498
11 Aroclor 1260 (3)	9.907	9.908	-0.001	1433163526	500.000	500
12 Aroclor 1260 (4)	11.081	11.082	-0.001	402270729	500.000	496
13 Aroclor 1260 (5)	11.264	11.265	-0.001	912684723	500.000	493
T 56 Decachlorobiphenyl	11.919	11.920	-0.001	6263335120	100.000	100



Data File: /chem1/SV0A/GC\_58.i/170523.b/b17052323.d

Date : 23-MAY-2017 17:27

Client ID:

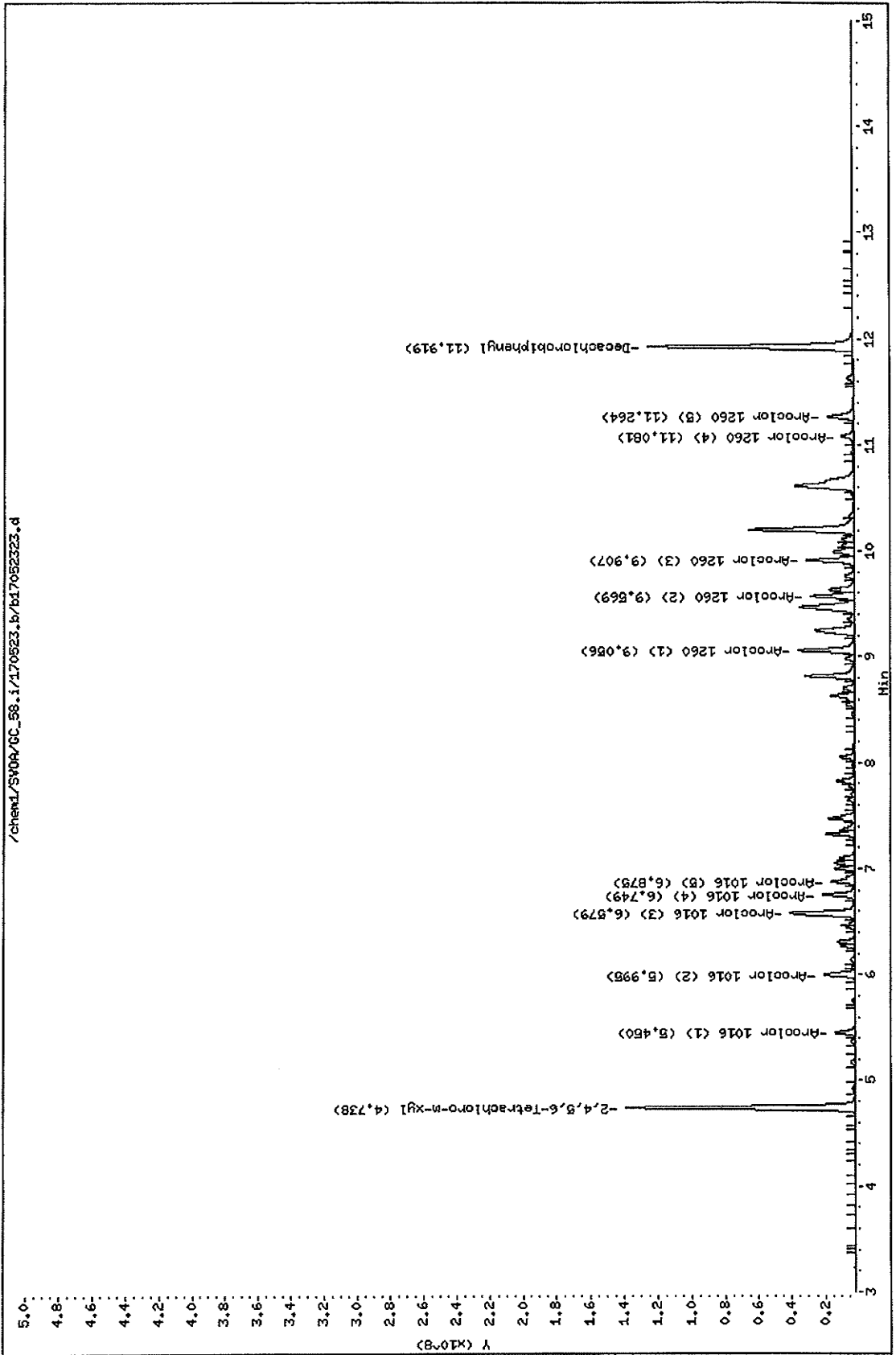
Sample Info: PCB ICAI-3 500 PP3 P051717D

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052324.d  
 Report Date: 24-May-2017 09:21

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052324.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 17:45  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB ICAL-4 750 PPB P051717C  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 17:45 Cal File: b17052324.d  
 Als bottle: 24 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.738	4.738	0.000	9500909148	150.000	150
M 2 Aroclor-1016				8348721824	750.000	726
3 Aroclor 1016 (1)	5.449	5.450	-0.001	803407281	750.000	715
4 Aroclor 1016 (2)	5.994	5.995	-0.001	1508723220	750.000	717
5 Aroclor 1016 (3)	6.578	6.579	-0.001	3459005906	750.000	733
6 Aroclor 1016 (4)	6.748	6.749	-0.001	1433724096	750.000	722
7 Aroclor 1016 (5)	6.875	6.876	-0.001	1143861321	750.000	727
M 8 Aroclor-1260				8576711934	750.000	743
9 Aroclor 1260 (1)	9.054	9.057	-0.003	2540359265	750.000	736
10 Aroclor 1260 (2)	9.568	9.570	-0.002	1905451840	750.000	744
11 Aroclor 1260 (3)	9.906	9.908	-0.002	2153262474	750.000	751
12 Aroclor 1260 (4)	11.079	11.082	-0.003	605262114	750.000	747
13 Aroclor 1260 (5)	11.263	11.265	-0.002	1372376241	750.000	742
T 56 Decachlorobiphenyl	11.918	11.920	-0.002	9441471856	150.000	151

Data File: /chem1/SVD08/GC\_58.i/170523.b/17052324.d

Date : 23-MAY-2017 17:45

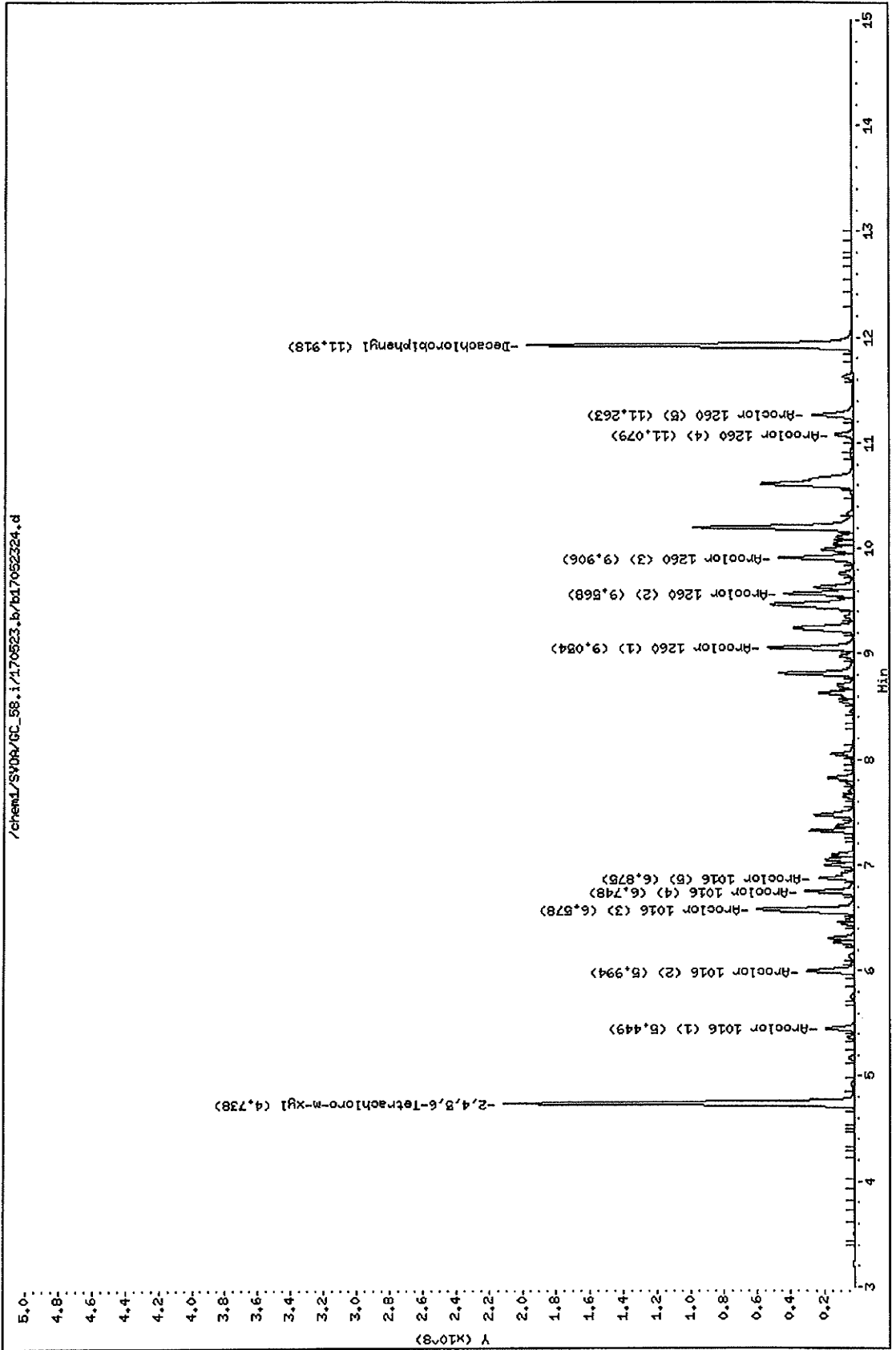
Client ID:

Sample Info: PCB ICHL-4 750 PPB P051717C

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00





Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052325.d  
 Report Date: 24-May-2017 09:21

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EPA 8082/A PCB analysis  
 Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052325.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 18:03  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB ICAL-5 2000 PPB P051717B  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 18:03 Cal File: b17052325.d  
 Als bottle: 25 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.736	4.738	-0.002	25182970224	400.000	397
M 2 Aroclor-1016				21038370403	2000.00	1830
3 Aroclor 1016 (1)	5.448	5.450	-0.002	1985912516	2000.00	1770
4 Aroclor 1016 (2)	5.994	5.995	-0.001	3762163387	2000.00	1790
5 Aroclor 1016 (3)	6.577	6.579	-0.002	8801155601	2000.00	1860
6 Aroclor 1016 (4)	6.748	6.749	-0.001	3590590278	2000.00	1810
7 Aroclor 1016 (5)	6.874	6.876	-0.002	2898548620	2000.00	1840
M 8 Aroclor-1260				22248564025	2000.00	1930
9 Aroclor 1260 (1)	9.053	9.057	-0.004	6434781416	2000.00	1860
10 Aroclor 1260 (2)	9.566	9.570	-0.004	4953039353	2000.00	1930
11 Aroclor 1260 (3)	9.903	9.908	-0.005	5644604301	2000.00	1970
12 Aroclor 1260 (4)	11.076	11.082	-0.006	1600986118	2000.00	1980
13 Aroclor 1260 (5)	11.258	11.265	-0.007	3615152837	2000.00	1950
T 56 Decachlorobiphenyl	11.916	11.920	-0.004	25167669245	400.000	403 (A)

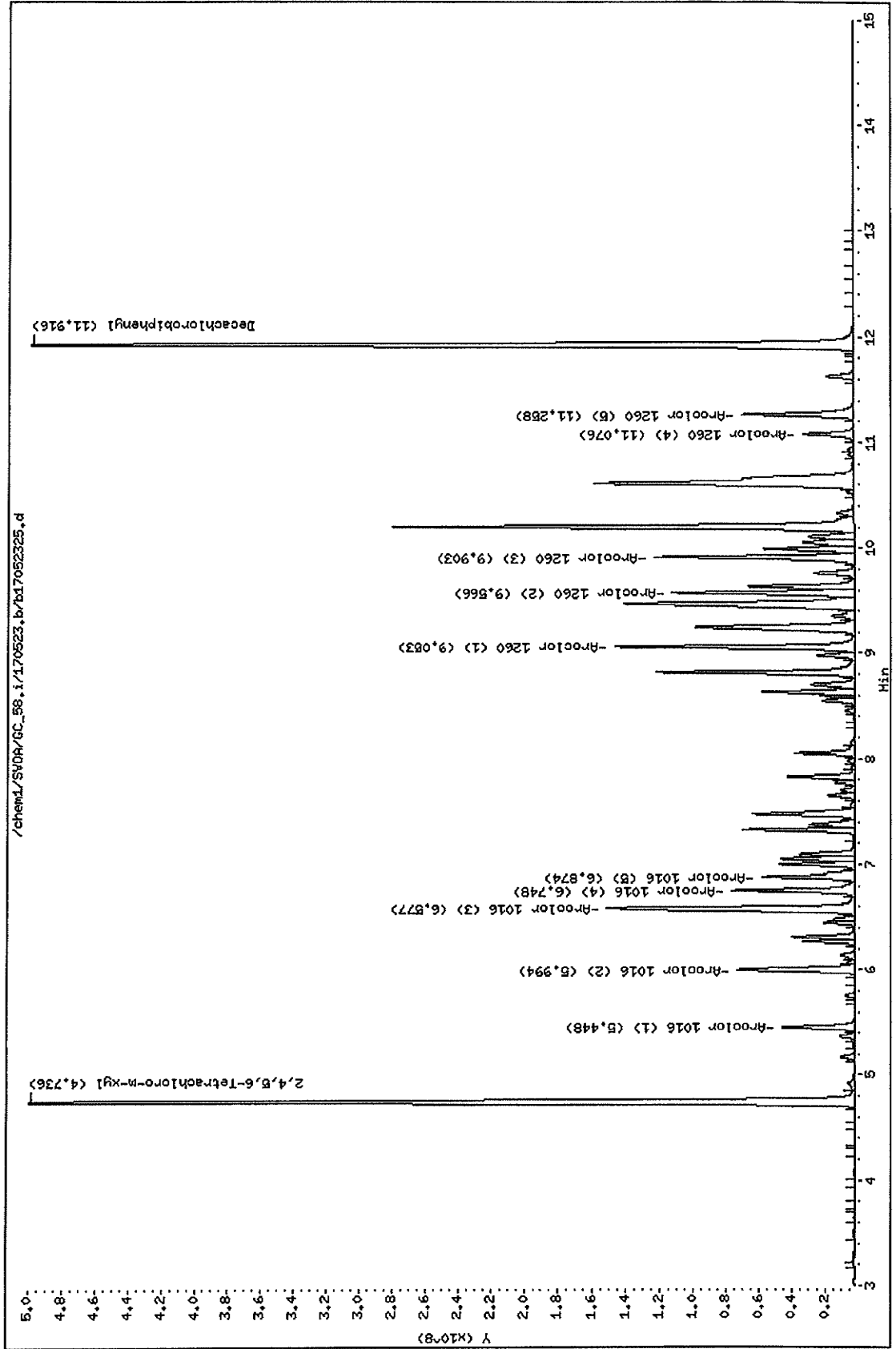
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.



Data File: /chem1/SV04/GC\_58.i/170523.b/17052325.d  
 Date : 23-MAY-2017 18:03  
 Client ID:  
 Sample Info: PCB ICAL-5 2000 PP2 P051717B

Instrument: GC\_58.i  
 Operator: 944  
 Column diameter: 2.00



Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052326.d  
 Report Date: 24-May-2017 09:21

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052326.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 18:21  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB ICV 500 PPB P051717H  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 18:03 Cal File: b17052325.d  
 Als bottle: 26 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.737	4.738	-0.001	6302888462	100.000	99.4
M 2 Aroclor-1016				5445235991	500.000	473
3 Aroclor 1016 (1)	5.449	5.450	-0.001	517908985	500.000	461
4 Aroclor 1016 (2)	5.994	5.995	-0.001	988768463	500.000	470
5 Aroclor 1016 (3)	6.578	6.579	-0.001	2258835652	500.000	478
6 Aroclor 1016 (4)	6.748	6.749	-0.001	937613381	500.000	472
7 Aroclor 1016 (5)	6.875	6.876	-0.001	742109510	500.000	472
M 8 Aroclor-1260				5585084073	500.000	484
9 Aroclor 1260 (1)	9.054	9.056	-0.002	1718987489	500.000	498
10 Aroclor 1260 (2)	9.568	9.569	-0.001	1213801439	500.000	474
11 Aroclor 1260 (3)	9.906	9.908	-0.002	1389340323	500.000	485
12 Aroclor 1260 (4)	11.078	11.081	-0.003	370531960	500.000	457
13 Aroclor 1260 (5)	11.260	11.264	-0.004	892422862	500.000	482
T 56 Decachlorobiphenyl	11.917	11.920	-0.003	6390983662	100.000	102

Data File: /chemd/SVDA/GC\_58.i/170523.b/b17052326.d  
Date : 23-MAY-2017 18:21  
Client ID:  
Sample Info: PCB ICY 500 PPS P061717H

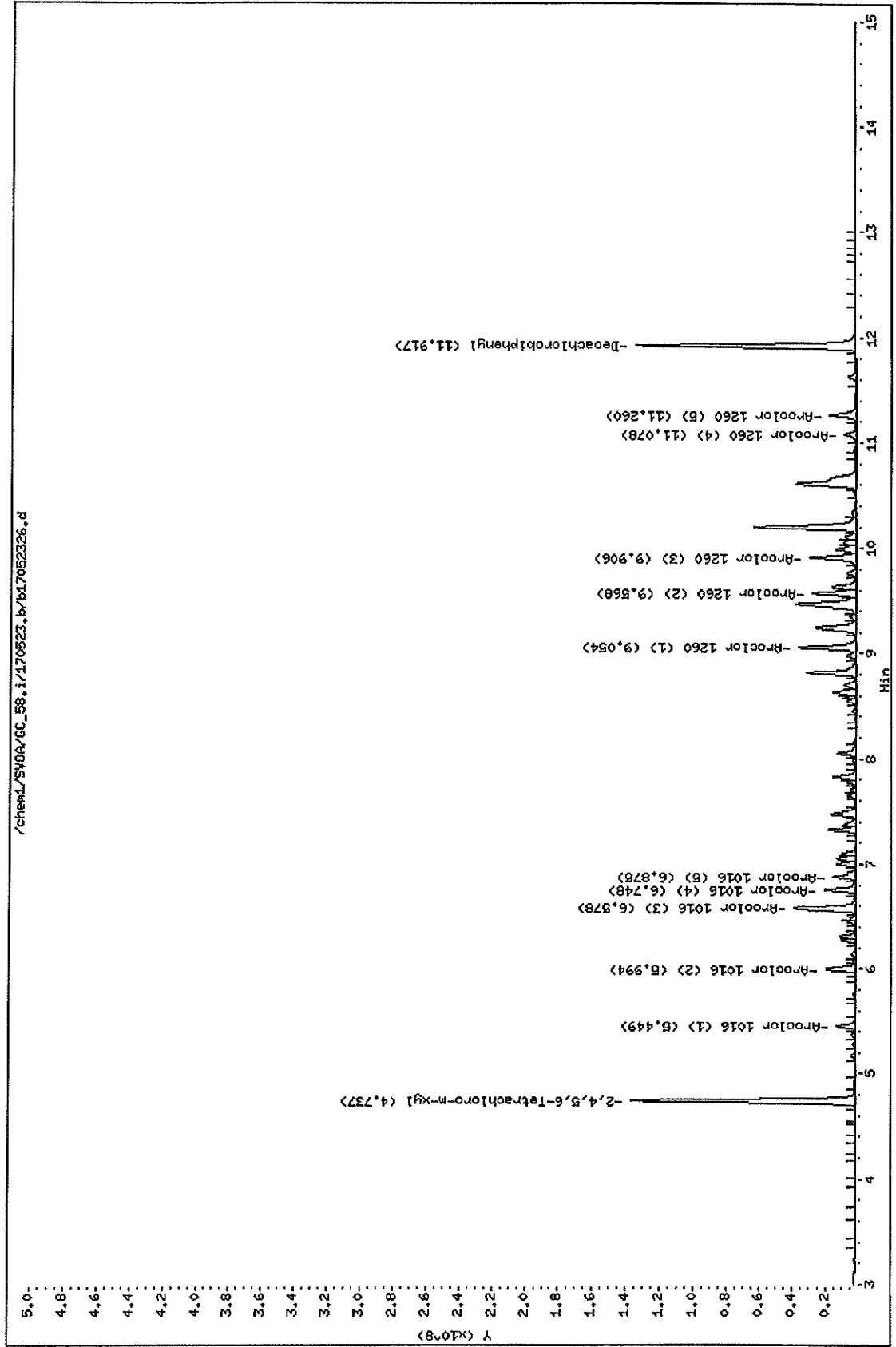
Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:

/chemd/SVDA/GC\_58.i/170523.b/b17052326.d



Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052327.d  
 Report Date: 24-May-2017 09:21

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052327.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 18:39  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB 1221/54 500 PPB P051717J  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 27 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1221\_1254.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
M 14 Aroclor-1221				1731328772	500.000	500
15 Aroclor 1221 (1)	4.069	4.069	0.000	259107710	500.000	500
16 Aroclor 1221 (2)	5.169	5.169	0.000	331747886	500.000	500
17 Aroclor 1221 (3)	5.366	5.366	0.000	217198956	500.000	500
18 Aroclor 1221 (4)	5.449	5.449	0.000	788197780	500.000	500
19 Aroclor 1221 (5)	5.988	5.988	0.000	135076440	500.000	500
M 38 Aroclor-1254				6513189667	500.000	500
39 Aroclor 1254 (1)	7.824	7.824	0.000	1107465181	500.000	500
40 Aroclor 1254 (2)	8.120	8.120	0.000	579328550	500.000	500
41 Aroclor 1254 (3)	8.590	8.590	0.000	1922498149	500.000	500
42 Aroclor 1254 (4)	8.859	8.859	0.000	1368954174	500.000	500
43 Aroclor 1254 (5)	9.262	9.262	0.000	1534943613	500.000	500



Data File: /chem1/SVDA/GC\_58.i/170523.b/b17052327.d

Date : 23-MAY-2017 18:39

Client ID:

Sample Info: PCB 1221/54 500 PPB POS1717J

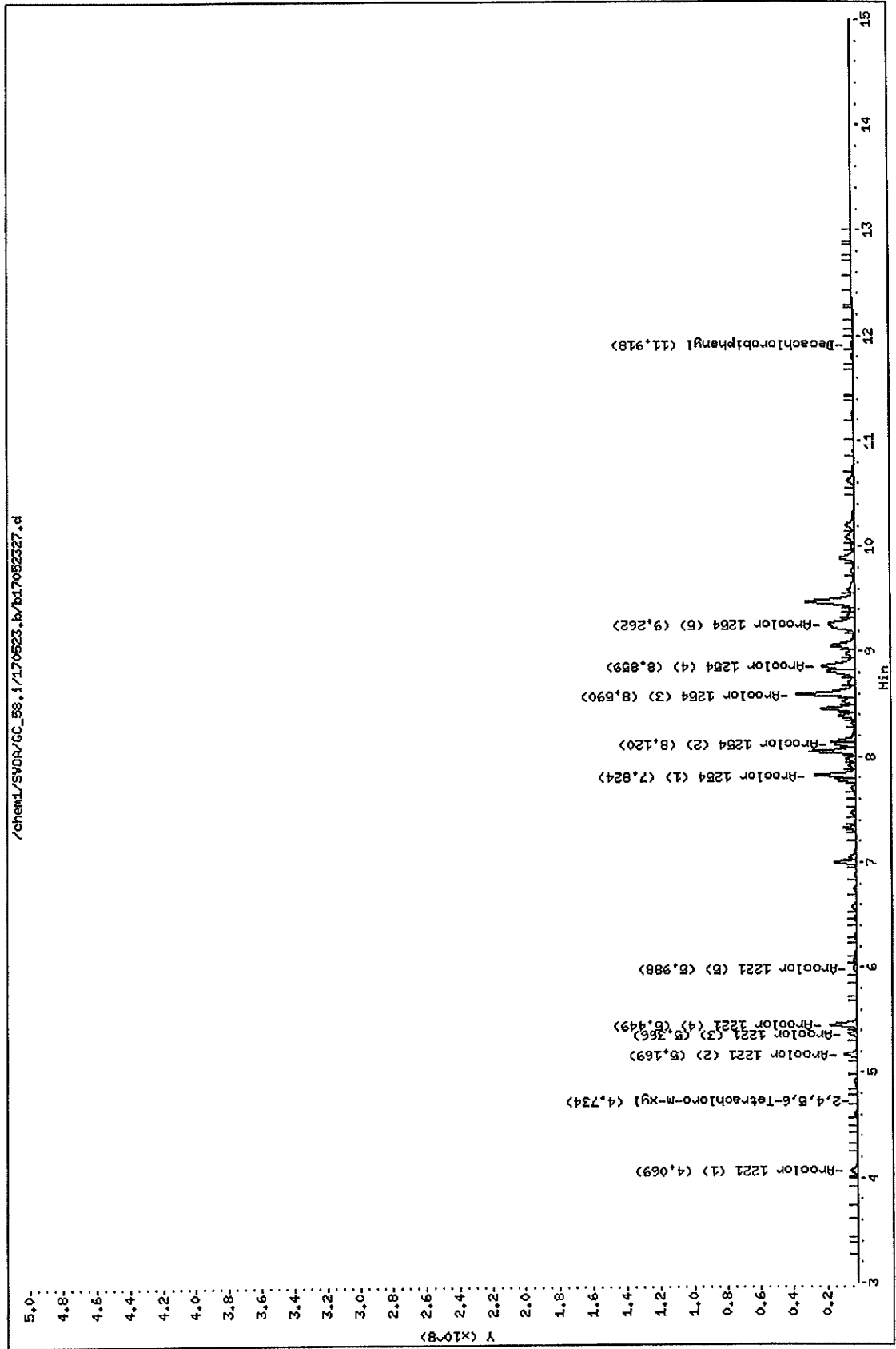
Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:

/chem1/SVDA/GC\_58.i/170523.b/b17052327.d



Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052328.d  
 Report Date: 24-May-2017 09:21

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052328.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 18:57  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB 1232/62 500 PPB P051717K  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 28 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1232\_1262.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

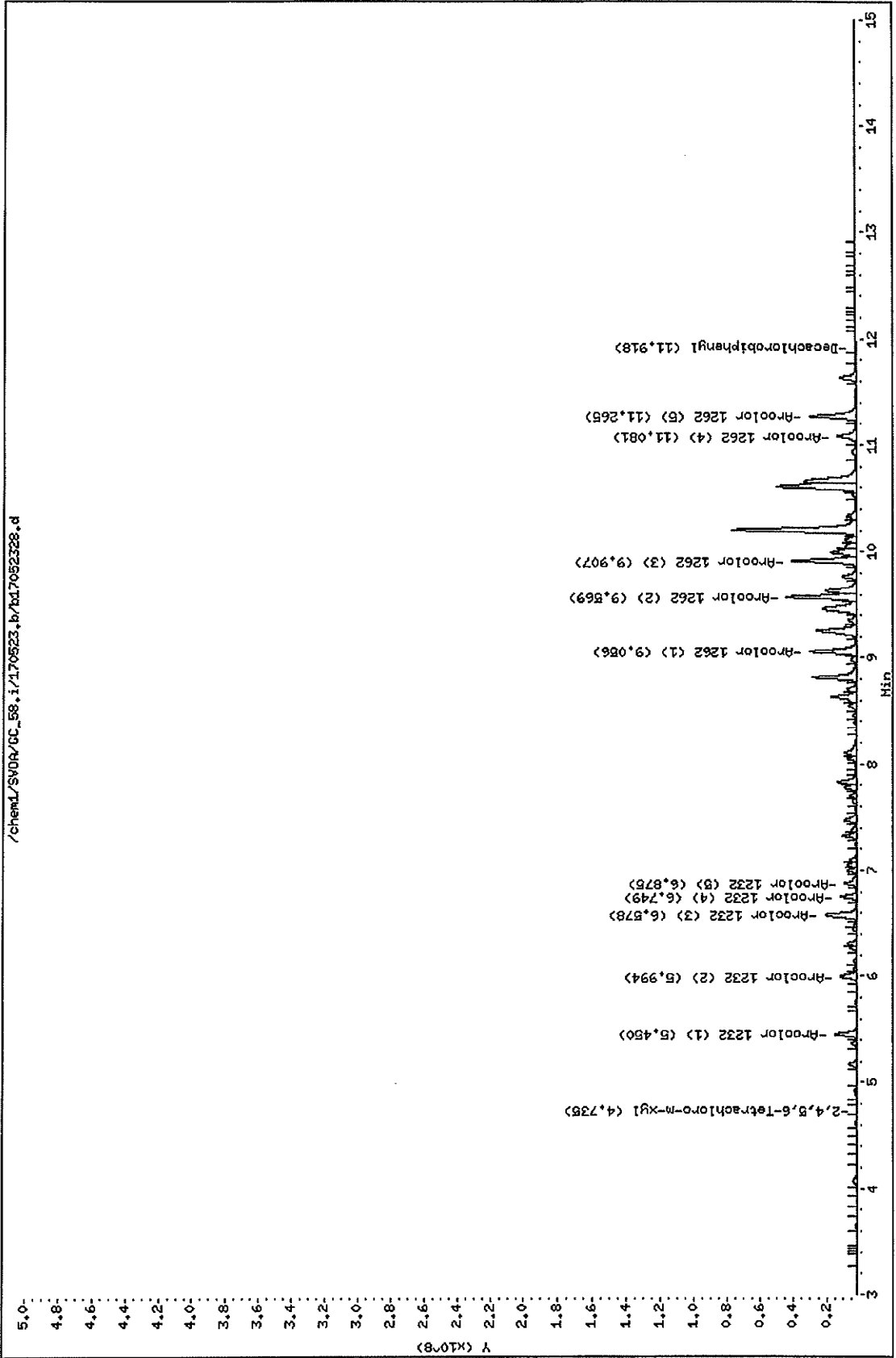
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
M 20 Aroclor-1232				3228108755	500.000	500
21 Aroclor 1232 (1)	5.450	5.450	0.000	630142373	500.000	500
22 Aroclor 1232 (2)	5.994	5.994	0.000	549970359	500.000	500
23 Aroclor 1232 (3)	6.578	6.578	0.000	1169960732	500.000	500
24 Aroclor 1232 (4)	6.749	6.749	0.000	492864101	500.000	500
25 Aroclor 1232 (5)	6.875	6.875	0.000	385171190	500.000	500
M 44 Aroclor-1262				7524136164	500.000	500
45 Aroclor 1262 (1)	9.056	9.056	0.000	1445246875	500.000	500
46 Aroclor 1262 (2)	9.569	9.569	0.000	1975851113	500.000	500
47 Aroclor 1262 (3)	9.907	9.907	0.000	1879904013	500.000	500
48 Aroclor 1262 (4)	11.081	11.081	0.000	639085749	500.000	500
49 Aroclor 1262 (5)	11.265	11.265	0.000	1584048414	500.000	500



Data File: /chem1/SV04/GC\_58.i/170523.b/17052328.d  
 Date : 23-MAY-2017 18:57  
 Client ID:  
 Sample Info: PCB 1232/62 500 PPB P061717K

Instrument: GC\_58.i  
 Operator: 944  
 Column diameter: 2.00

Column phase:





Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052329.d  
 Report Date: 24-May-2017 09:21

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EPA 8082/A PCB analysis  
 Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052329.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 19:15  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB 1248/68 500 PPB P051717L  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 29 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1248\_1268.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

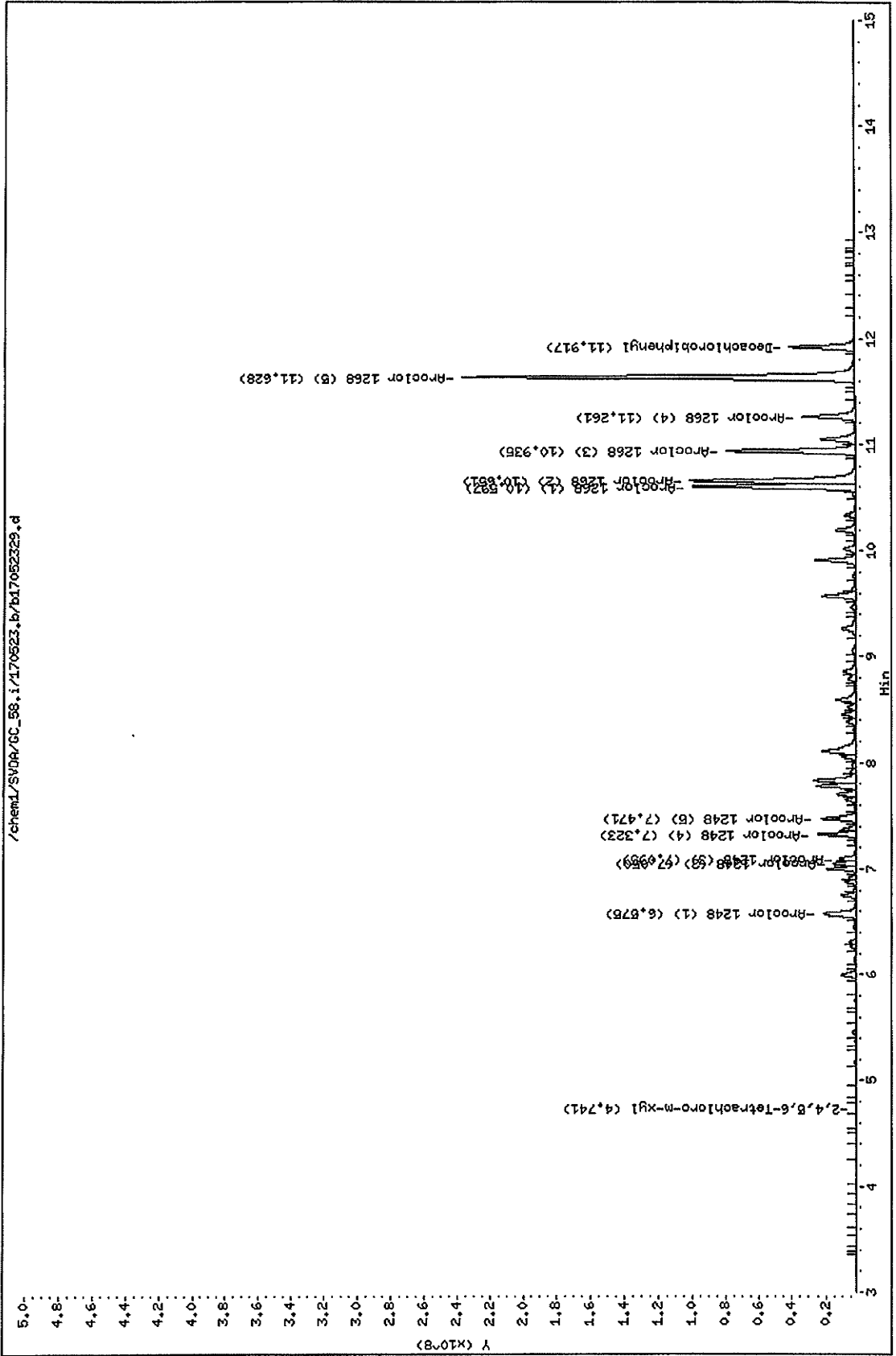
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
M 32 Aroclor-1248				4292806725	500.000	500
33 Aroclor 1248 (1)	6.575	6.575	0.000	1237175702	500.000	500
34 Aroclor 1248 (2)	7.050	7.050	0.000	595284036	500.000	500
35 Aroclor 1248 (3)	7.095	7.095	0.000	465048330	500.000	500
36 Aroclor 1248 (4)	7.323	7.323	0.000	927707908	500.000	500
37 Aroclor 1248 (5)	7.471	7.471	0.000	1067590749	500.000	500
M 50 Aroclor-1268				26734072112	500.000	500
51 Aroclor 1268 (1)	10.597	10.597	0.000	4337285233	500.000	500
52 Aroclor 1268 (2)	10.651	10.651	0.000	5588601365	500.000	500
53 Aroclor 1268 (3)	10.935	10.935	0.000	3541388006	500.000	500
54 Aroclor 1268 (4)	11.261	11.261	0.000	1648297268	500.000	500
55 Aroclor 1268 (5)	11.628	11.628	0.000	11618500240	500.000	500



Data File: /chem1/SVDA/GC\_58.i/170523.b/b17052329.d  
Date : 23-MAY-2017 19:15  
Client ID:  
Sample Info: PCB 1248/68 500 PPB P051717L

Instrument: GC\_58.i  
Operator: 944  
Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052330.d  
 Report Date: 24-May-2017 09:21

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EPA 8082/A PCB analysis  
 Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052330.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 19:33  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB 1242 500 PPB P051717M  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 30 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1242.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

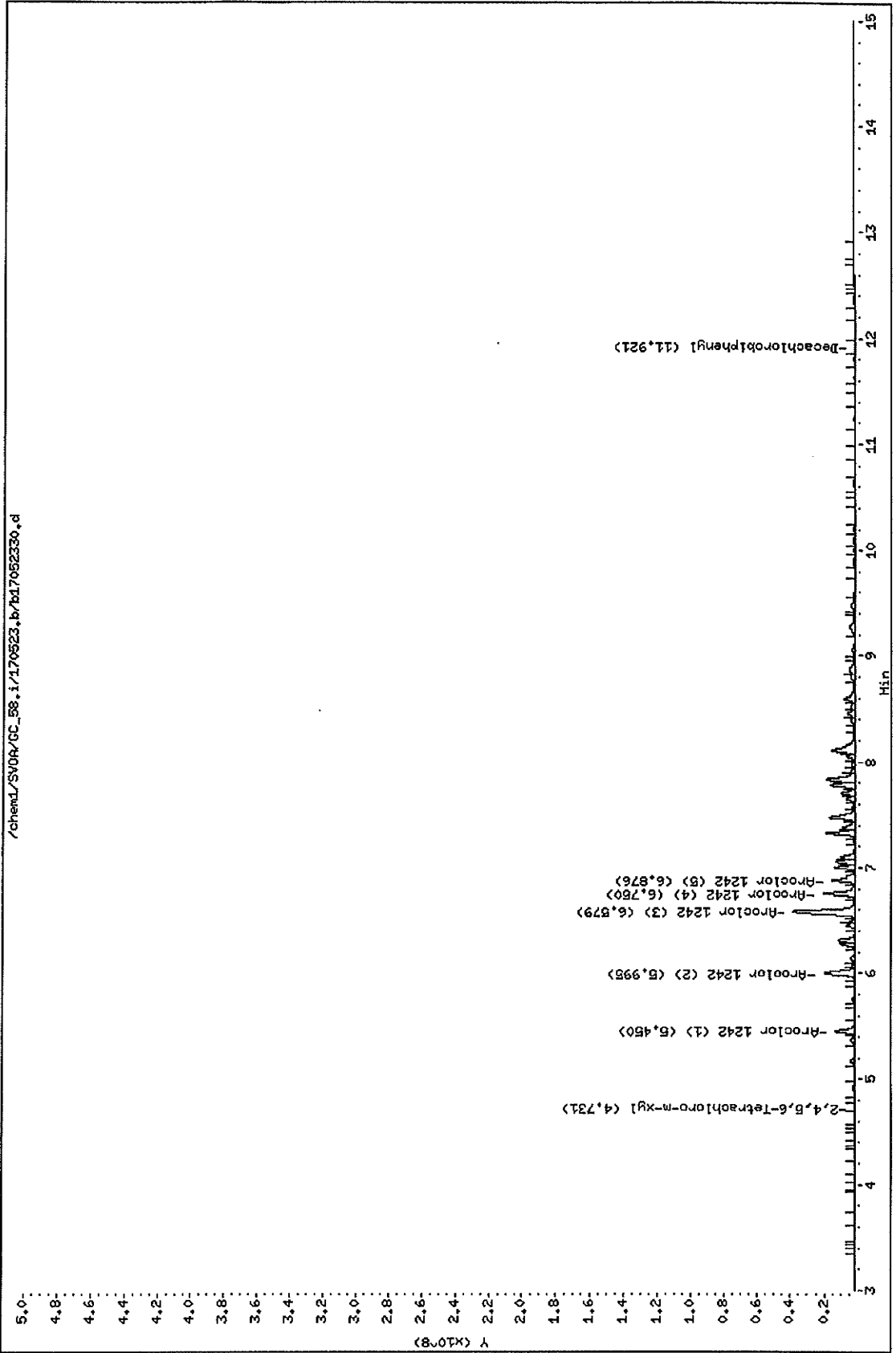
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
M 26 Aroclor-1242				5389512491	500.000	500
27 Aroclor 1242 (1)	5.450	5.450	0.000	508226939	500.000	500
28 Aroclor 1242 (2)	5.995	5.995	0.000	987164741	500.000	500
29 Aroclor 1242 (3)	6.579	6.579	0.000	2221729562	500.000	500
30 Aroclor 1242 (4)	6.750	6.750	0.000	932661040	500.000	500
31 Aroclor 1242 (5)	6.876	6.876	0.000	739730209	500.000	500

Data File: /chem1/SV04/GC\_58.i/170523.b/17052330.d  
 Date : 23-MAY-2017 19:33  
 Client ID:  
 Sample Info: PCB 1242 500 PPB P0561717H

Instrument: GC\_58.i  
 Operator: 944  
 Column diameter: 2.00

Column phase:



# EPA METHOD 8082 PCB

## Sample Data

# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-06-0746  
**INSTRUMENT:** GC 58  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-06-13 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-06-14 18:21  
**REVIEWED BY:**  
**D/T REVIEWED:** M

**DATA FILE:** /chem1/SVOA/GC\_58/170614/b1706142817061428

**# 1**                      **CLIENT SAMPLE NUMBER:** TTP-W001

**LCS/MB BATCH:** 170613L13                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 1.00 each / ACTUAL: 1.00 each  
**MS/MSD BATCH:**                                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/smpl                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:** Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	1.0	
Aroclor-1221	0.000	1.00	ND	1.0	
Aroclor-1232	0.000	1.00	ND	1.0	
Aroclor-1242	0.000	1.00	ND	1.0	
Aroclor-1248	0.000	1.00	ND	1.0	
Aroclor-1254	0.000	1.00	ND	1.0	
Aroclor-1260	0.000	1.00	ND	1.0	
Aroclor-1262	0.000	1.00	ND	1.0	
Aroclor-1268	0.000	1.00	ND	1.0	

Return to Contents

Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061428.d  
 Report Date: 15-Jun-2017 09:52

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170614.b/b17061428.d  
 Lab Smp Id:  
 Inj Date : 14-JUN-2017 18:21  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-06-0746-1  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170614.b/b8082-n2.m  
 Meth Date : 15-Jun-2017 09:52 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 28  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.740	4.739	0.001	5602663961	88.3914	88.4
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				Compound Not Detected.		
9 Aroclor 1260 (1)				Compound Not Detected.		
10 Aroclor 1260 (2)				Compound Not Detected.		
11 Aroclor 1260 (3)				Compound Not Detected.		
12 Aroclor 1260 (4)				Compound Not Detected.		
13 Aroclor 1260 (5)				Compound Not Detected.		
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		



Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061428.d  
 Report Date: 15-Jun-2017 09:52

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						Compound Not Detected.		
39 Aroclor 1254 (1)						Compound Not Detected.		
40 Aroclor 1254 (2)						Compound Not Detected.		
41 Aroclor 1254 (3)						Compound Not Detected.		
42 Aroclor 1254 (4)						Compound Not Detected.		
43 Aroclor 1254 (5)						Compound Not Detected.		
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	11.911	11.918	-0.007	6437834247	103.108	103		



Data File: /chem1/SVDA/GC\_58.i/170614.b/b17061428.d  
Date : 14-JUN-2017 18:21  
Client ID:  
Sample Info: 17-06-0746-1

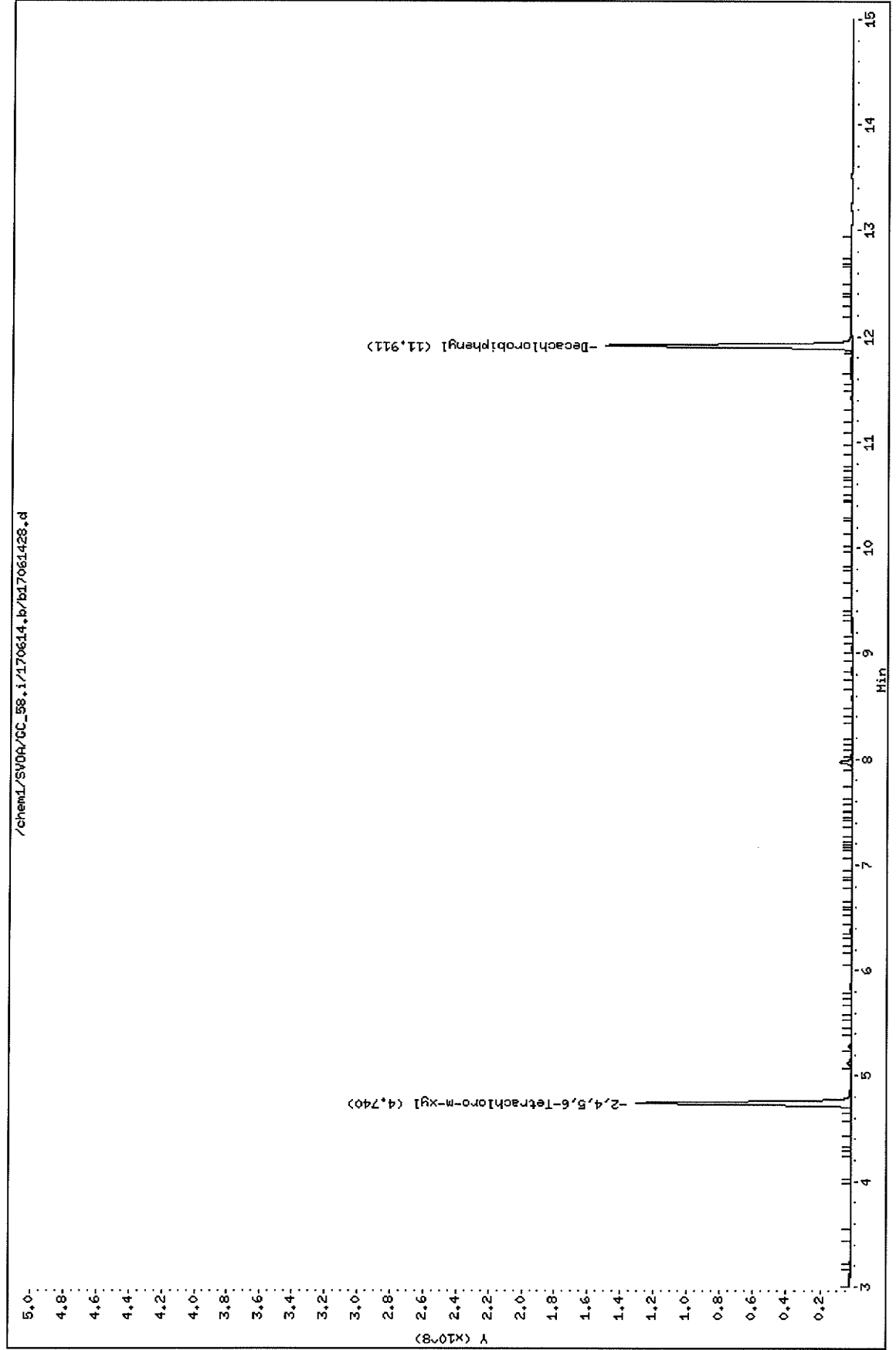
Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

/chem1/SVDA/GC\_58.i/170614.b/b17061428.d

Column phase:



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-06-0746  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-06-13 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-06-14 18:39  
**REVIEWED BY:** M  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170614/b1706142917061429

**# 2**      **CLIENT SAMPLE NUMBER:** TTP-W002

**LCS/MB BATCH:** 170613L13      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 1.00 each / ACTUAL: 1.00 each  
**MS/MSD BATCH:**      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/smpl      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:** Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	1.0	
Aroclor-1221	0.000	1.00	ND	1.0	
Aroclor-1232	0.000	1.00	ND	1.0	
Aroclor-1242	0.000	1.00	ND	1.0	
Aroclor-1248	0.000	1.00	ND	1.0	
Aroclor-1254	0.000	1.00	ND	1.0	
Aroclor-1260	0.000	1.00	ND	1.0	
Aroclor-1262	0.000	1.00	ND	1.0	
Aroclor-1268	0.000	1.00	ND	1.0	

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Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061429.d  
 Report Date: 15-Jun-2017 09:52

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170614.b/b17061429.d  
 Lab Smp Id:  
 Inj Date : 14-JUN-2017 18:39  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-06-0746-2  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170614.b/b8082-n2.m  
 Meth Date : 15-Jun-2017 09:52 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 29  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.740	4.739	0.001	4950781389	78.1069	78.1	
M 2 Aroclor-1016				Compound Not Detected.			
3 Aroclor 1016 (1)				Compound Not Detected.			
4 Aroclor 1016 (2)				Compound Not Detected.			
5 Aroclor 1016 (3)				Compound Not Detected.			
6 Aroclor 1016 (4)				Compound Not Detected.			
7 Aroclor 1016 (5)				Compound Not Detected.			
M 8 Aroclor-1260				Compound Not Detected.			
9 Aroclor 1260 (1)				Compound Not Detected.			
10 Aroclor 1260 (2)				Compound Not Detected.			
11 Aroclor 1260 (3)				Compound Not Detected.			
12 Aroclor 1260 (4)				Compound Not Detected.			
13 Aroclor 1260 (5)				Compound Not Detected.			
M 14 Aroclor-1221				Compound Not Detected.			
15 Aroclor 1221 (1)				Compound Not Detected.			
16 Aroclor 1221 (2)				Compound Not Detected.			
17 Aroclor 1221 (3)				Compound Not Detected.			
18 Aroclor 1221 (4)				Compound Not Detected.			
19 Aroclor 1221 (5)				Compound Not Detected.			
M 20 Aroclor-1232				Compound Not Detected.			
21 Aroclor 1232 (1)				Compound Not Detected.			



Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061429.d  
 Report Date: 15-Jun-2017 09:52

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Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
=====	==	=====	=====	=====	=====	=====	=====	=====
22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						Compound Not Detected.		
39 Aroclor 1254 (1)						Compound Not Detected.		
40 Aroclor 1254 (2)						Compound Not Detected.		
41 Aroclor 1254 (3)						Compound Not Detected.		
42 Aroclor 1254 (4)						Compound Not Detected.		
43 Aroclor 1254 (5)						Compound Not Detected.		
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	11.910	11.918	-0.008	5949368052	95.2846	95.3		

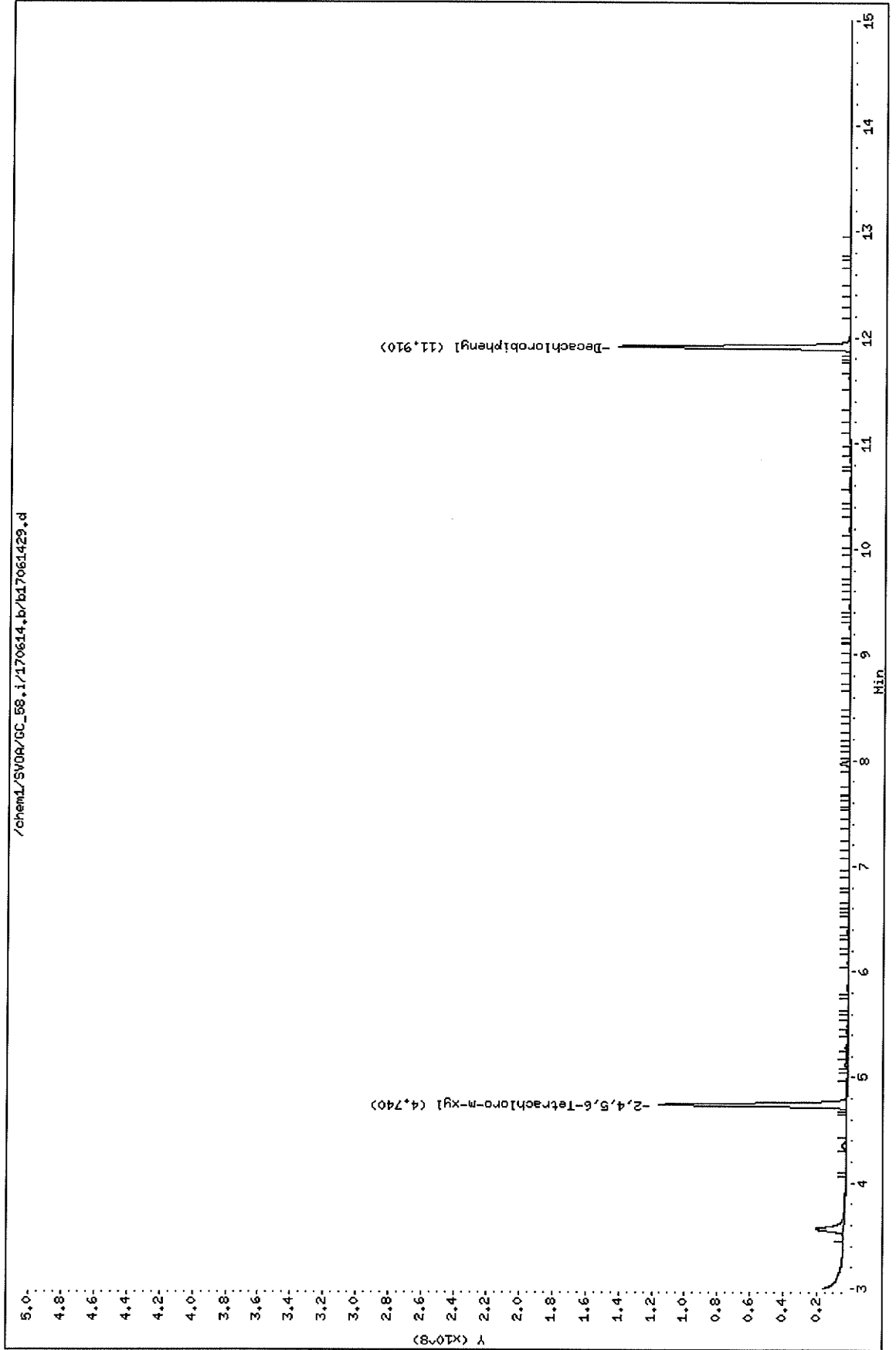
Data File: /chem1/SV0A/GC\_58.i/170614.b/b17061429.d  
Date : 14-JUN-2017 18:39  
Client ID:  
Sample Info: 17-06-0746-2

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-06-0746  
**INSTRUMENT:** GC 58  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-06-13 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-06-14 18:57  
**REVIEWED BY:** *u*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170614/b1706143017061430

**# 3**                      **CLIENT SAMPLE NUMBER:** TTP-W003

**LCS/MB BATCH:** 170613L13                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 1.00 each / ACTUAL: 1.00 each  
**MS/MSD BATCH:**                                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/smpl                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:** Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	1.0	
Aroclor-1221	0.000	1.00	ND	1.0	
Aroclor-1232	0.000	1.00	ND	1.0	
Aroclor-1242	0.000	1.00	ND	1.0	
Aroclor-1248	0.000	1.00	ND	1.0	
Aroclor-1254	0.000	1.00	ND	1.0	
Aroclor-1260	0.000	1.00	ND	1.0	
Aroclor-1262	0.000	1.00	ND	1.0	
Aroclor-1268	0.000	1.00	ND	1.0	

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Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061430.d  
 Report Date: 15-Jun-2017 09:52

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170614.b/b17061430.d  
 Lab Smp Id:  
 Inj Date : 14-JUN-2017 18:57  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-06-0746-3  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170614.b/b8082-n2.m  
 Meth Date : 15-Jun-2017 09:52 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 30  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.741	4.739	0.002	3868143891	61.0264	61.0	
M 2 Aroclor-1016				Compound Not Detected.			
3 Aroclor 1016 (1)				Compound Not Detected.			
4 Aroclor 1016 (2)				Compound Not Detected.			
5 Aroclor 1016 (3)				Compound Not Detected.			
6 Aroclor 1016 (4)				Compound Not Detected.			
7 Aroclor 1016 (5)				Compound Not Detected.			
M 8 Aroclor-1260				Compound Not Detected.			
9 Aroclor 1260 (1)				Compound Not Detected.			
10 Aroclor 1260 (2)				Compound Not Detected.			
11 Aroclor 1260 (3)				Compound Not Detected.			
12 Aroclor 1260 (4)				Compound Not Detected.			
13 Aroclor 1260 (5)				Compound Not Detected.			
M 14 Aroclor-1221				Compound Not Detected.			
15 Aroclor 1221 (1)				Compound Not Detected.			
16 Aroclor 1221 (2)				Compound Not Detected.			
17 Aroclor 1221 (3)				Compound Not Detected.			
18 Aroclor 1221 (4)				Compound Not Detected.			
19 Aroclor 1221 (5)				Compound Not Detected.			
M 20 Aroclor-1232				Compound Not Detected.			
21 Aroclor 1232 (1)				Compound Not Detected.			



Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061430.d  
 Report Date: 15-Jun-2017 09:52

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
===== 22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						Compound Not Detected.		
39 Aroclor 1254 (1)						Compound Not Detected.		
40 Aroclor 1254 (2)						Compound Not Detected.		
41 Aroclor 1254 (3)						Compound Not Detected.		
42 Aroclor 1254 (4)						Compound Not Detected.		
43 Aroclor 1254 (5)						Compound Not Detected.		
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	11.911	11.918	-0.007	4766858684	76.3456	76.3		





Data File: /chem1/SV09/GC\_58.i/170614.b/b17061430.d  
Date : 14-JUN-2017 18:57  
Client ID:  
Sample Info: 17-06-0746-3

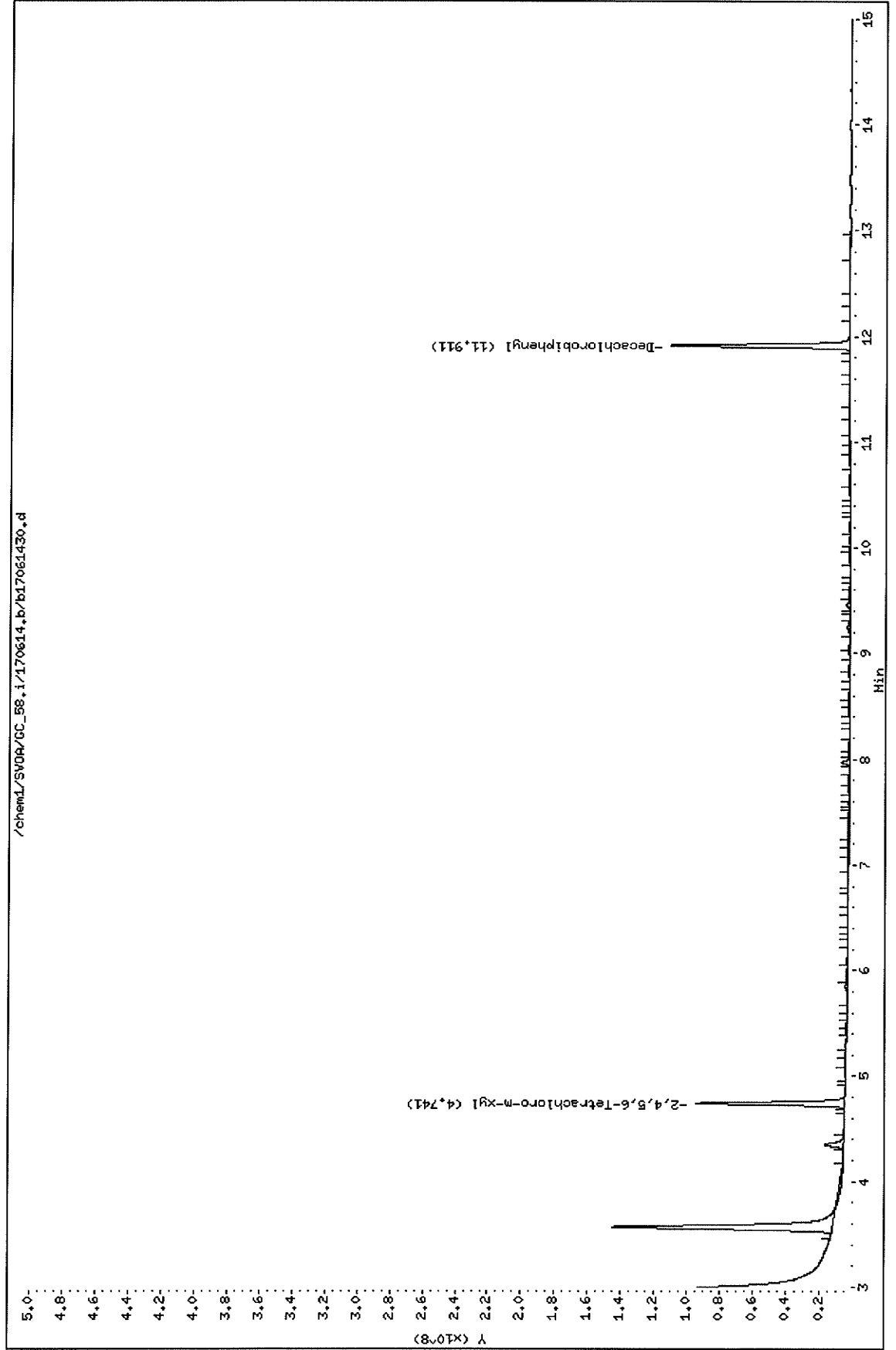
Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

/chem1/SV09/GC\_58.i/170614.b/b17061430.d

Column phase:



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-06-0746  
**INSTRUMENT:** GC 58  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-06-13 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-06-14 19:15  
**REVIEWED BY:** 71  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170614/b1706143117061431

**# 4**                      **CLIENT SAMPLE NUMBER: TTP-W004**

**LCS/MB BATCH:** 170613L13                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 1.00 each / ACTUAL: 1.00 each  
**MS/MSD BATCH:**                                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/smpl                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:** Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	1.0	
Aroclor-1221	0.000	1.00	ND	1.0	
Aroclor-1232	0.000	1.00	ND	1.0	
Aroclor-1242	0.000	1.00	ND	1.0	
Aroclor-1248	0.000	1.00	ND	1.0	
Aroclor-1254	0.000	1.00	ND	1.0	
Aroclor-1260	0.000	1.00	ND	1.0	
Aroclor-1262	0.000	1.00	ND	1.0	
Aroclor-1268	0.000	1.00	ND	1.0	

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Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061431.d  
 Report Date: 15-Jun-2017 09:52

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170614.b/b17061431.d  
 Lab Smp Id:  
 Inj Date : 14-JUN-2017 19:15  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-06-0746-4  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170614.b/b8082-n2.m  
 Meth Date : 15-Jun-2017 09:52 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 31  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
=====	==	=====	=====	=====	=====	=====	( ppb)	(ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.741	4.739	0.002	5814260304	91.7297	91.7		
M 2 Aroclor-1016				Compound Not Detected.				
3 Aroclor 1016 (1)				Compound Not Detected.				
4 Aroclor 1016 (2)				Compound Not Detected.				
5 Aroclor 1016 (3)				Compound Not Detected.				
6 Aroclor 1016 (4)				Compound Not Detected.				
7 Aroclor 1016 (5)				Compound Not Detected.				
M 8 Aroclor-1260				Compound Not Detected.				
9 Aroclor 1260 (1)				Compound Not Detected.				
10 Aroclor 1260 (2)				Compound Not Detected.				
11 Aroclor 1260 (3)				Compound Not Detected.				
12 Aroclor 1260 (4)				Compound Not Detected.				
13 Aroclor 1260 (5)				Compound Not Detected.				
M 14 Aroclor-1221				Compound Not Detected.				
15 Aroclor 1221 (1)				Compound Not Detected.				
16 Aroclor 1221 (2)				Compound Not Detected.				
17 Aroclor 1221 (3)				Compound Not Detected.				
18 Aroclor 1221 (4)				Compound Not Detected.				
19 Aroclor 1221 (5)				Compound Not Detected.				
M 20 Aroclor-1232				Compound Not Detected.				
21 Aroclor 1232 (1)				Compound Not Detected.				



Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061431.d  
 Report Date: 15-Jun-2017 09:52

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
=====	==	=====	=====	=====	=====	=====
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				Compound Not Detected.		
39 Aroclor 1254 (1)				Compound Not Detected.		
40 Aroclor 1254 (2)				Compound Not Detected.		
41 Aroclor 1254 (3)				Compound Not Detected.		
42 Aroclor 1254 (4)				Compound Not Detected.		
43 Aroclor 1254 (5)				Compound Not Detected.		
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.910	11.918	-0.008	7024923116	112.511	112

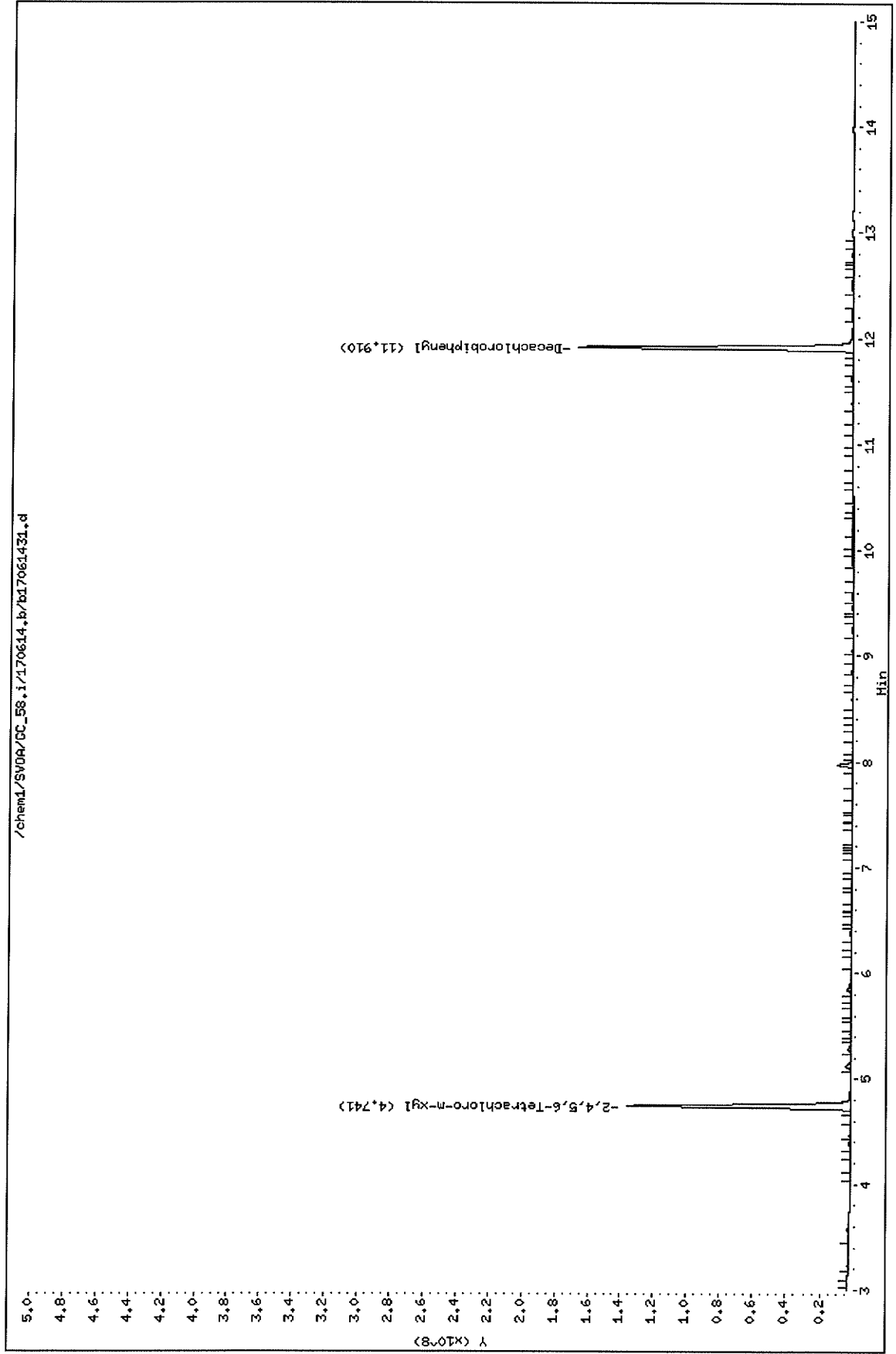
Data File: /chem1/SV08/CC\_58.i/170614.b/b17061431.d  
Date : 14-JUN-2017 19:15  
Client ID:  
Sample Info: 17-06-0746-4

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-06-0746  
**INSTRUMENT:** GC 58  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-06-13 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-06-14 19:33  
**REVIEWED BY:** *AN*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170614/b1706143217061432

**# 5**                      **CLIENT SAMPLE NUMBER: TTP-W005**

**LCS/MB BATCH:** 170613L13                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 1.00 each / ACTUAL: 1.00 each  
**MS/MSD BATCH:**                                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/smpl                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:** Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	1.0	
Aroclor-1221	0.000	1.00	ND	1.0	
Aroclor-1232	0.000	1.00	ND	1.0	
Aroclor-1242	0.000	1.00	ND	1.0	
Aroclor-1248	0.000	1.00	ND	1.0	
Aroclor-1254	0.000	1.00	ND	1.0	
Aroclor-1260	0.000	1.00	ND	1.0	
Aroclor-1262	0.000	1.00	ND	1.0	
Aroclor-1268	0.000	1.00	ND	1.0	

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Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061432.d  
 Report Date: 15-Jun-2017 09:52

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170614.b/b17061432.d  
 Lab Smp Id:  
 Inj Date : 14-JUN-2017 19:33  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-06-0746-5  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170614.b/b8082-n2.m  
 Meth Date : 15-Jun-2017 09:52 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 32  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.741	4.739	0.002	5859191676	92.4385	92.4	
M 2 Aroclor-1016				Compound Not Detected.			
3 Aroclor 1016 (1)				Compound Not Detected.			
4 Aroclor 1016 (2)				Compound Not Detected.			
5 Aroclor 1016 (3)				Compound Not Detected.			
6 Aroclor 1016 (4)				Compound Not Detected.			
7 Aroclor 1016 (5)				Compound Not Detected.			
M 8 Aroclor-1260				Compound Not Detected.			
9 Aroclor 1260 (1)				Compound Not Detected.			
10 Aroclor 1260 (2)				Compound Not Detected.			
11 Aroclor 1260 (3)				Compound Not Detected.			
12 Aroclor 1260 (4)				Compound Not Detected.			
13 Aroclor 1260 (5)				Compound Not Detected.			
M 14 Aroclor-1221				Compound Not Detected.			
15 Aroclor 1221 (1)				Compound Not Detected.			
16 Aroclor 1221 (2)				Compound Not Detected.			
17 Aroclor 1221 (3)				Compound Not Detected.			
18 Aroclor 1221 (4)				Compound Not Detected.			
19 Aroclor 1221 (5)				Compound Not Detected.			
M 20 Aroclor-1232				Compound Not Detected.			
21 Aroclor 1232 (1)				Compound Not Detected.			

Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061432.d  
 Report Date: 15-Jun-2017 09:52

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
=====	==	=====	=====	=====	=====	=====	=====	=====
22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						Compound Not Detected.		
39 Aroclor 1254 (1)						Compound Not Detected.		
40 Aroclor 1254 (2)						Compound Not Detected.		
41 Aroclor 1254 (3)						Compound Not Detected.		
42 Aroclor 1254 (4)						Compound Not Detected.		
43 Aroclor 1254 (5)						Compound Not Detected.		
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	11.912	11.918	-0.006	7045395179	112.838	113		



Data File: /chem1/SV0A/CC\_58.i/170614.b/b17061432.d

Date : 14-JUN-2017 19:33

Client ID:

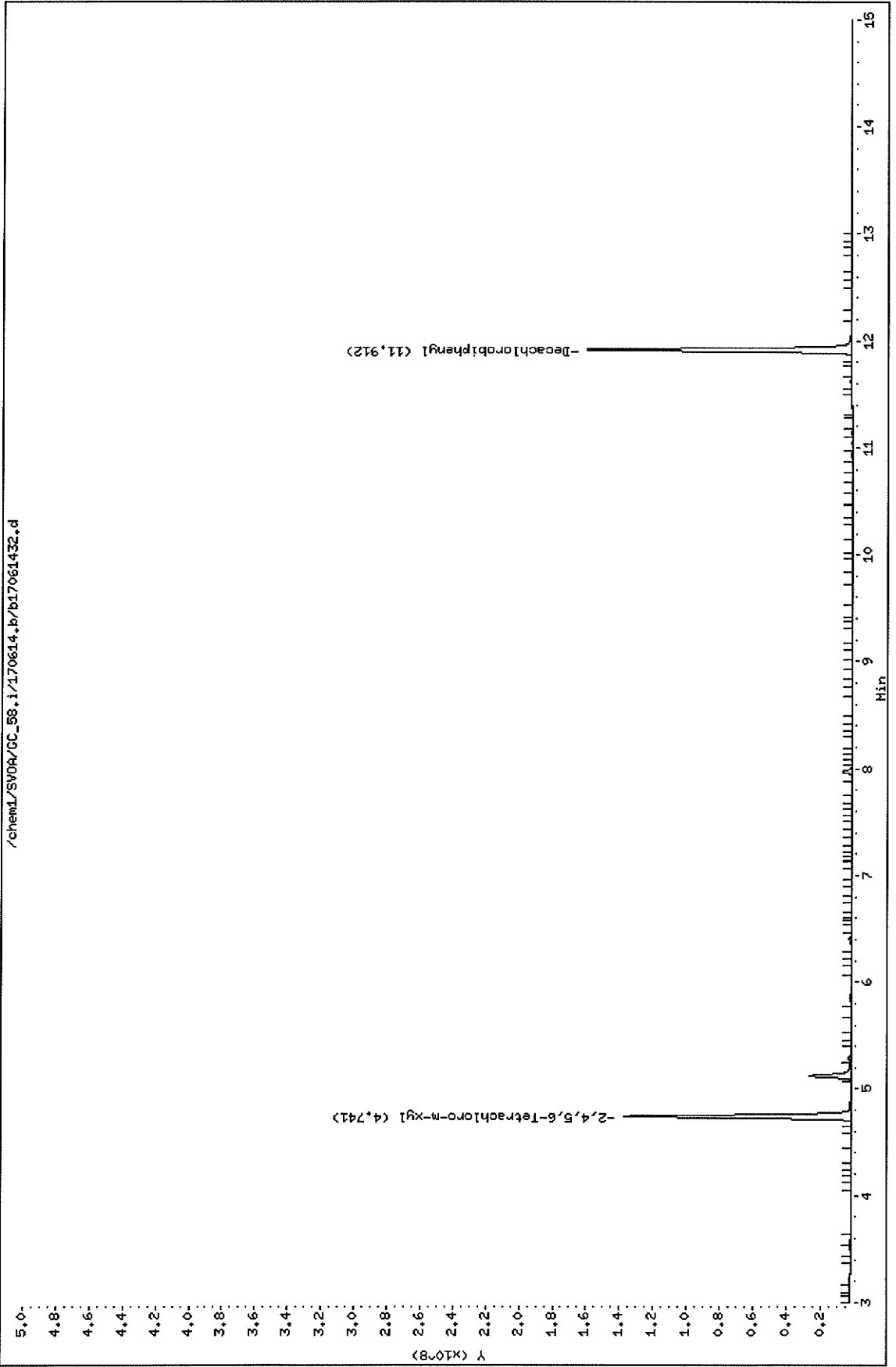
Sample Info: 17-06-0746-6

Instrument: CC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-06-0746  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-06-13 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-06-14 19:51  
**REVIEWED BY:**  
**D/T REVIEWED:** *M*

**DATA FILE:** /chem1/SVOA/GC\_58/170614/b1706143317061433

**# 6**                      **CLIENT SAMPLE NUMBER:** TTP-W006

**LCS/MB BATCH:** 170613L13                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 1.00 each / ACTUAL: 1.00 each  
**MS/MSD BATCH:**                                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/smpl                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:** Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	1.0	
Aroclor-1221	0.000	1.00	ND	1.0	
Aroclor-1232	0.000	1.00	ND	1.0	
Aroclor-1242	0.000	1.00	ND	1.0	
Aroclor-1248	0.000	1.00	ND	1.0	
Aroclor-1254	0.000	1.00	ND	1.0	
Aroclor-1260	0.000	1.00	ND	1.0	
Aroclor-1262	0.000	1.00	ND	1.0	
Aroclor-1268	0.000	1.00	ND	1.0	

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Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061433.d  
 Report Date: 15-Jun-2017 09:52

Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170614.b/b17061433.d  
 Lab Smp Id:  
 Inj Date : 14-JUN-2017 19:51  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-06-0746-6  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170614.b/b8082-n2.m  
 Meth Date : 15-Jun-2017 09:52 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 33  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.742	4.739	0.003	5729736553	90.3962	90.4		
M 2 Aroclor-1016				Compound Not Detected.				
3 Aroclor 1016 (1)				Compound Not Detected.				
4 Aroclor 1016 (2)				Compound Not Detected.				
5 Aroclor 1016 (3)				Compound Not Detected.				
6 Aroclor 1016 (4)				Compound Not Detected.				
7 Aroclor 1016 (5)				Compound Not Detected.				
M 8 Aroclor-1260				Compound Not Detected.				
9 Aroclor 1260 (1)				Compound Not Detected.				
10 Aroclor 1260 (2)				Compound Not Detected.				
11 Aroclor 1260 (3)				Compound Not Detected.				
12 Aroclor 1260 (4)				Compound Not Detected.				
13 Aroclor 1260 (5)				Compound Not Detected.				
M 14 Aroclor-1221				Compound Not Detected.				
15 Aroclor 1221 (1)				Compound Not Detected.				
16 Aroclor 1221 (2)				Compound Not Detected.				
17 Aroclor 1221 (3)				Compound Not Detected.				
18 Aroclor 1221 (4)				Compound Not Detected.				
19 Aroclor 1221 (5)				Compound Not Detected.				
M 20 Aroclor-1232				Compound Not Detected.				
21 Aroclor 1232 (1)				Compound Not Detected.				



Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061433.d  
 Report Date: 15-Jun-2017 09:52

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
=====	==	=====	=====	=====	=====	=====
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				Compound Not Detected.		
39 Aroclor 1254 (1)				Compound Not Detected.		
40 Aroclor 1254 (2)				Compound Not Detected.		
41 Aroclor 1254 (3)				Compound Not Detected.		
42 Aroclor 1254 (4)				Compound Not Detected.		
43 Aroclor 1254 (5)				Compound Not Detected.		
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.912	11.918	-0.006	6728474618	107.763	108

Data File: /chem1/SV08/GC\_58.i/170614.b/b17061433.d

Date : 14-JUN-2017 19:51

Client ID:

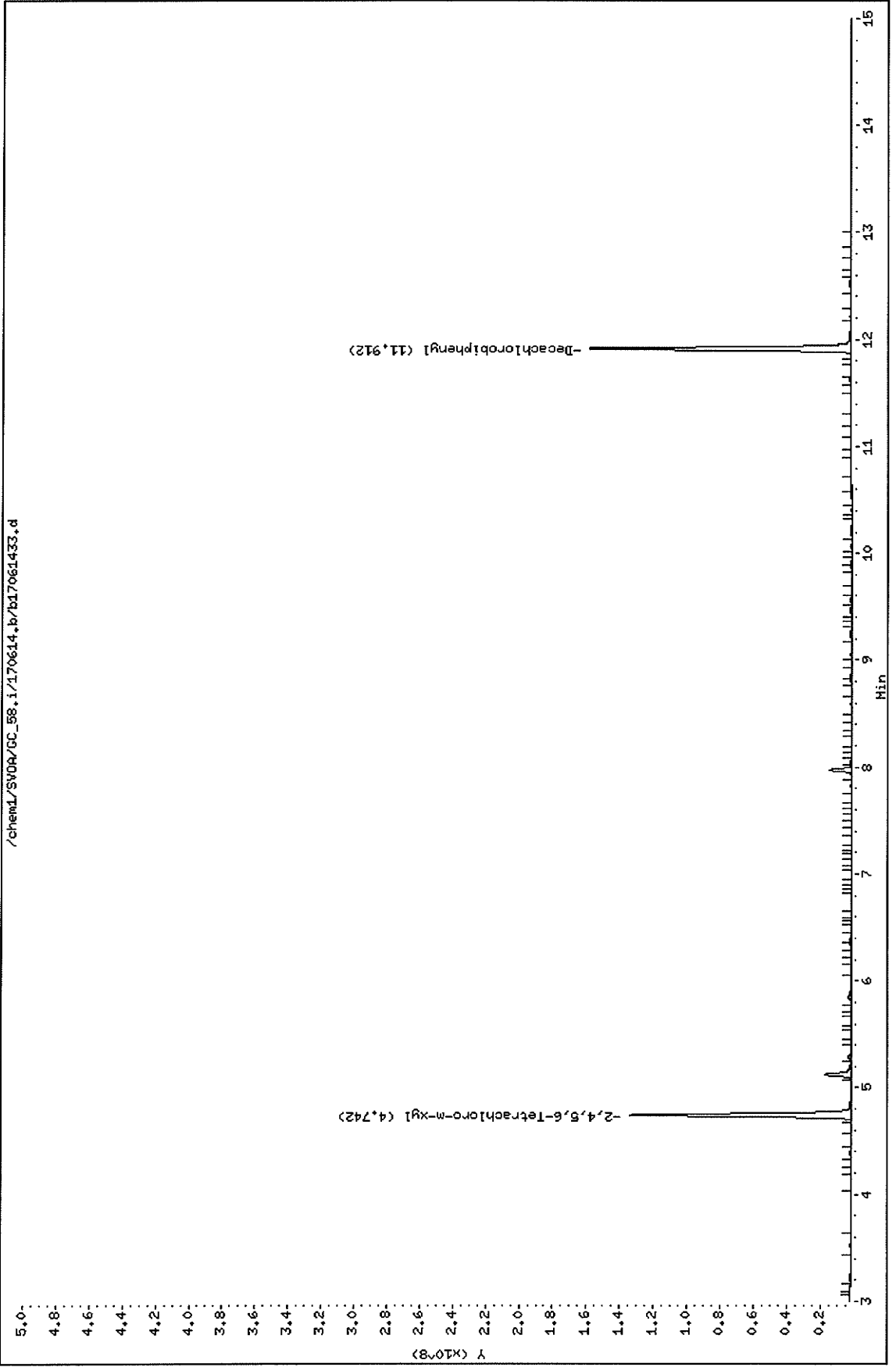
Sample Info: 17-06-0746-6

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-06-0746  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-06-13 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-06-14 20:08  
**REVIEWED BY:**  
**D/T REVIEWED:** *W*

**DATA FILE:** /chem1/SVOA/GC\_58/170614/b1706143417061434

**# 7**                      **CLIENT SAMPLE NUMBER: TTP-W007**

**LCS/MB BATCH:** 170613L13                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 1.00 each / ACTUAL: 1.00 each  
**MS/MSD BATCH:**                                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/smpl                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:** Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	1.0	
Aroclor-1221	0.000	1.00	ND	1.0	
Aroclor-1232	0.000	1.00	ND	1.0	
Aroclor-1242	0.000	1.00	ND	1.0	
Aroclor-1248	0.000	1.00	ND	1.0	
Aroclor-1254	574	1.00	5.74	1.0	
Aroclor-1260	0.000	1.00	ND	1.0	
Aroclor-1262	0.000	1.00	ND	1.0	
Aroclor-1268	0.000	1.00	ND	1.0	

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Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061434.d  
 Report Date: 15-Jun-2017 10:08

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170614.b/b17061434.d  
 Lab Smp Id:  
 Inj Date : 14-JUN-2017 20:08  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-06-0746-7  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170614.b/b8082-n2.m  
 Meth Date : 15-Jun-2017 09:53 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 34  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.742	4.739	0.003	6213583801	98.0297	98.0		
M 2 Aroclor-1016				Compound Not Detected.				
3 Aroclor 1016 (1)				Compound Not Detected.				
4 Aroclor 1016 (2)				Compound Not Detected.				
5 Aroclor 1016 (3)				Compound Not Detected.				
6 Aroclor 1016 (4)				Compound Not Detected.				
7 Aroclor 1016 (5)				Compound Not Detected.				
M 8 Aroclor-1260				Compound Not Detected.				
9 Aroclor 1260 (1)				Compound Not Detected.				
10 Aroclor 1260 (2)				Compound Not Detected.				
11 Aroclor 1260 (3)				Compound Not Detected.				
12 Aroclor 1260 (4)				Compound Not Detected.				
13 Aroclor 1260 (5)				Compound Not Detected.				
M 14 Aroclor-1221				Compound Not Detected.				
15 Aroclor 1221 (1)				Compound Not Detected.				
16 Aroclor 1221 (2)				Compound Not Detected.				
17 Aroclor 1221 (3)				Compound Not Detected.				
18 Aroclor 1221 (4)				Compound Not Detected.				
19 Aroclor 1221 (5)				Compound Not Detected.				
M 20 Aroclor-1232				Compound Not Detected.				
21 Aroclor 1232 (1)				Compound Not Detected.				

Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061434.d  
 Report Date: 15-Jun-2017 10:08

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
===== 22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						7480167573	574.232	574
39 Aroclor 1254 (1)	7.825	7.824	0.001		798697143	360.597	360	360
40 Aroclor 1254 (2)	8.123	8.120	0.003		481775437	415.805	416 (M)	416 (M)
41 Aroclor 1254 (3)	8.587	8.590	-0.003		2367512801	615.739	616	616
42 Aroclor 1254 (4)	8.848	8.859	-0.011		1644204489	600.533	600	600
43 Aroclor 1254 (5)	9.248	9.262	-0.014		2187977703	712.723	713	713
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	11.910	11.919	-0.009		8108195418	129.860	130	130

QC Flag Legend

M - Compound response manually integrated.



Data File: /chem1/SV0A/GC\_58.i/170614.b/b17061434.d

Date : 14-JUN-2017 20:08

Client ID:

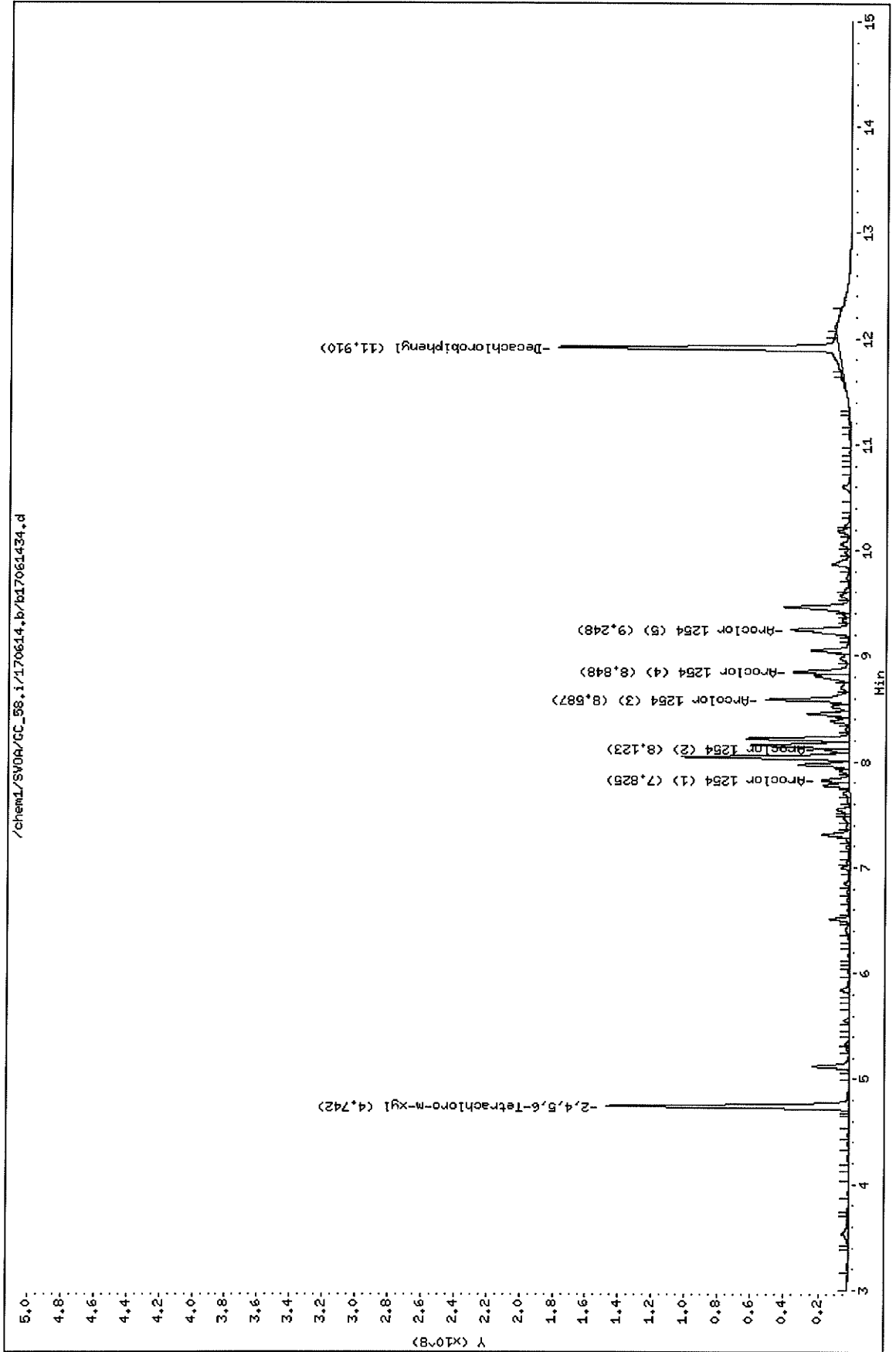
Sample Info: 17-06-0746-7

Instrument: GC\_58.i

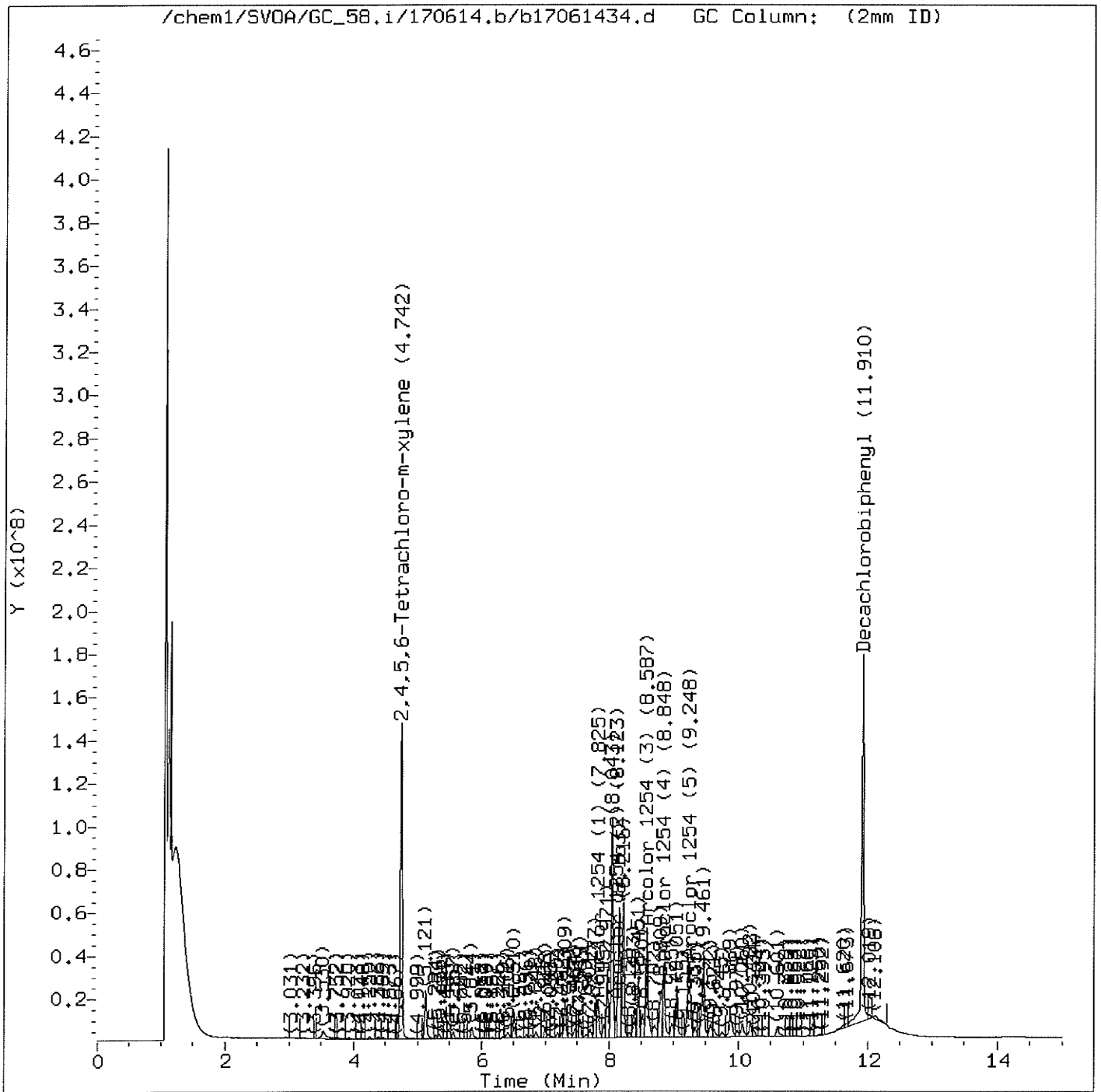
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee

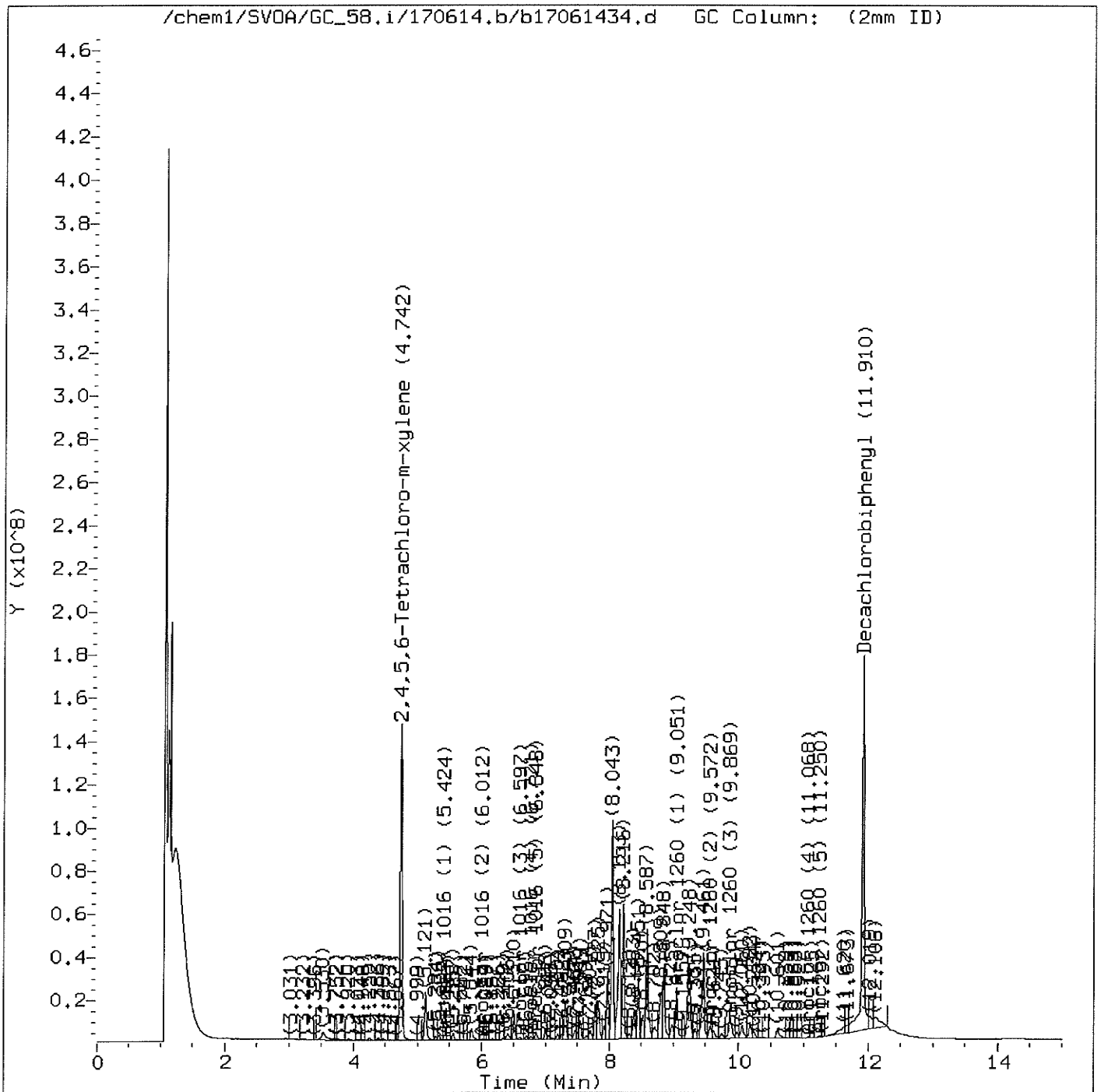
Analyst responsible for change: on 06/15/2017 at 10:08.

Target 3.5 esignature user ID: src3

*m*

Audit/management approval: \_\_\_\_\_

Original Data File



Data File: /chem1/SVOA/GC\_58.i/170616.b/b17061602.d  
 Report Date: 16-Jun-2017 09:57

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170616.b/b17061602.d  
 Lab Smp Id:  
 Inj Date : 16-JUN-2017 06:37  
 Operator : 944  
 Smp Info : 17-06-0746-7 RB  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170616.b/b8082-n2.m  
 Meth Date : 16-Jun-2017 09:57 src3  
 Cal Date : 23-MAY-2017 19:33  
 Als bottle: 2  
 Dil Factor: 1.00000  
 Integrator: HP Genie  
 Target Version: 3.50  
 Processing Host: US26TAR4

Inst ID: GC\_58.i

Quant Type: ESTD

Cal File: b17052330.d

Compound Sublist: all.sub

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.743	4.740	0.003	6595726405	104.059	104
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				Compound Not Detected.		
9 Aroclor 1260 (1)				Compound Not Detected.		
10 Aroclor 1260 (2)				Compound Not Detected.		
11 Aroclor 1260 (3)				Compound Not Detected.		
12 Aroclor 1260 (4)				Compound Not Detected.		
13 Aroclor 1260 (5)				Compound Not Detected.		
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		

*Ref.*



Data File: /chem1/SVOA/GC\_58.i/170616.b/b17061602.d  
 Report Date: 16-Jun-2017 09:57

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
===== 22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254					7432865149		570.601	571
39 Aroclor 1254 (1)	7.826	7.824	0.002		911889761		411.701	412
40 Aroclor 1254 (2)	8.127	8.120	0.007		493666633		426.068	426 (M)
41 Aroclor 1254 (3)	8.589	8.590	-0.001		2432885974		632.741	633
42 Aroclor 1254 (4)	8.849	8.859	-0.010		1545469062		564.471	564
43 Aroclor 1254 (5)	9.248	9.262	-0.014		2048953719		667.436	667
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	11.912	11.919	-0.007		8091294718		129.589	130

QC Flag Legend

M - Compound response manually integrated.



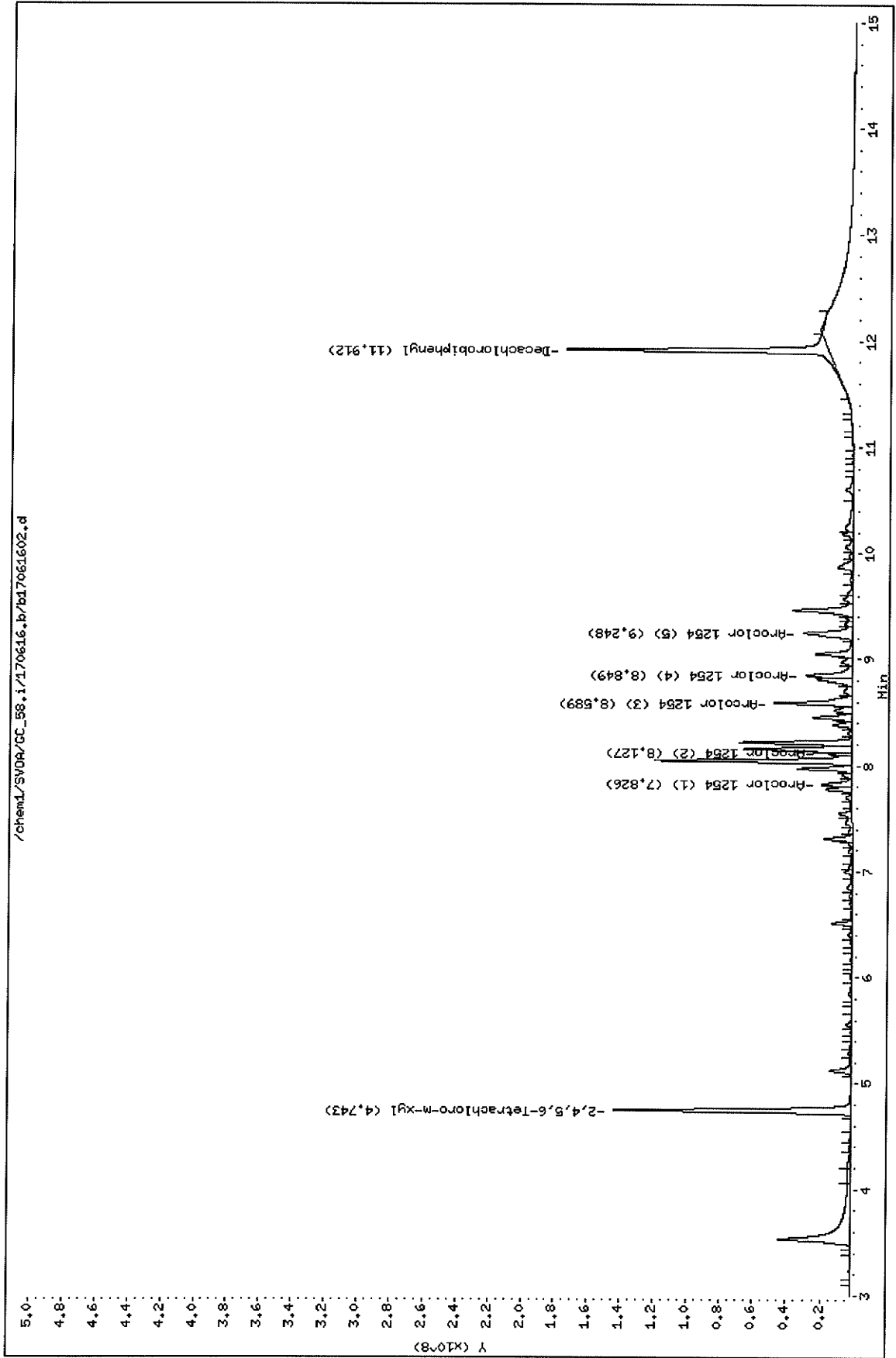
Data File: /chem1/SV00A/GC\_58.i/170616.b/b17061602.d  
Date : 16-JUN-2017 06:37  
Client ID:  
Sample Info: 17-06-0746-7 RB

Instrument: GC\_58.i

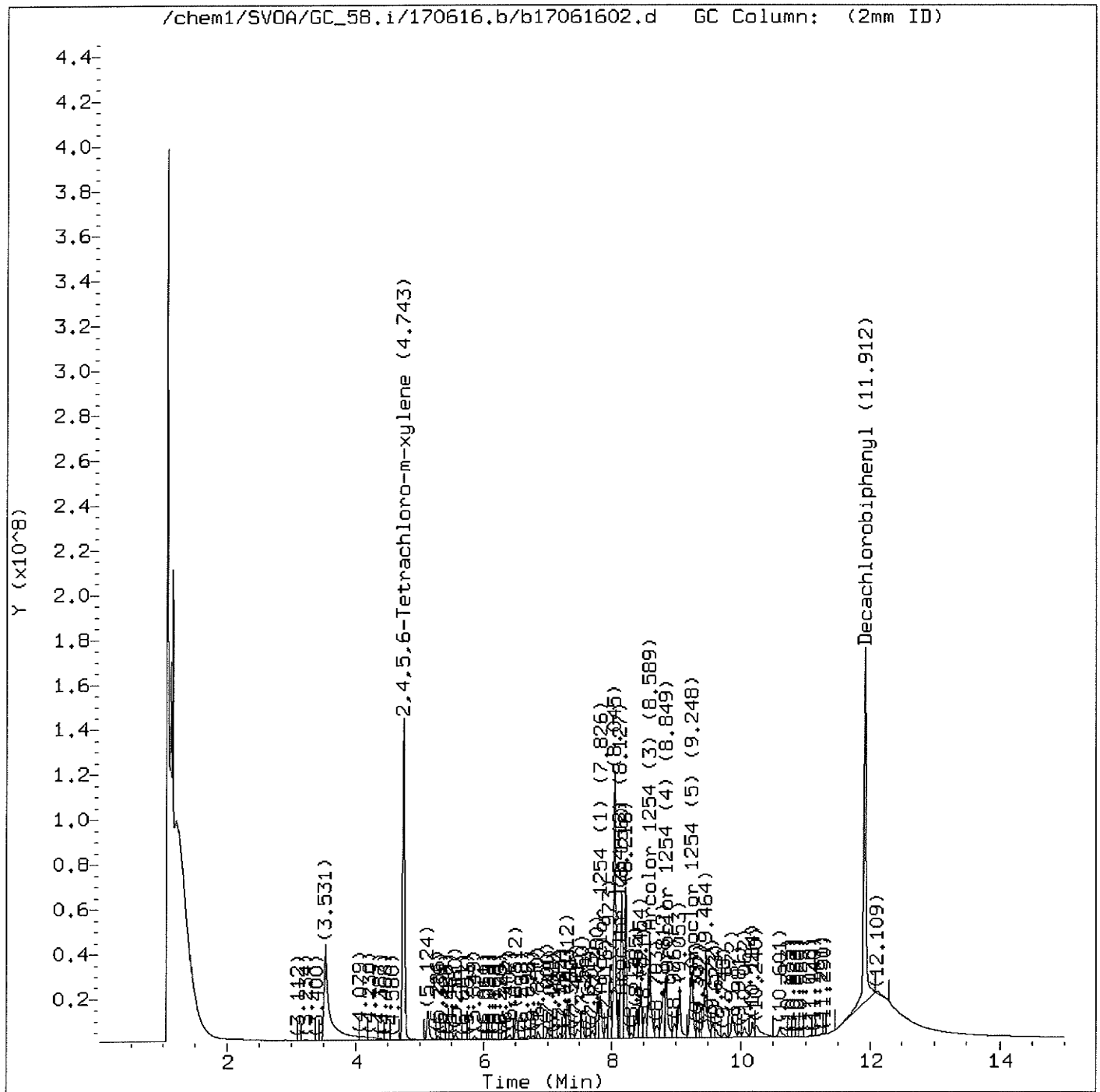
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee

Analyst responsible for change: on 06/16/2017 at 09:57.

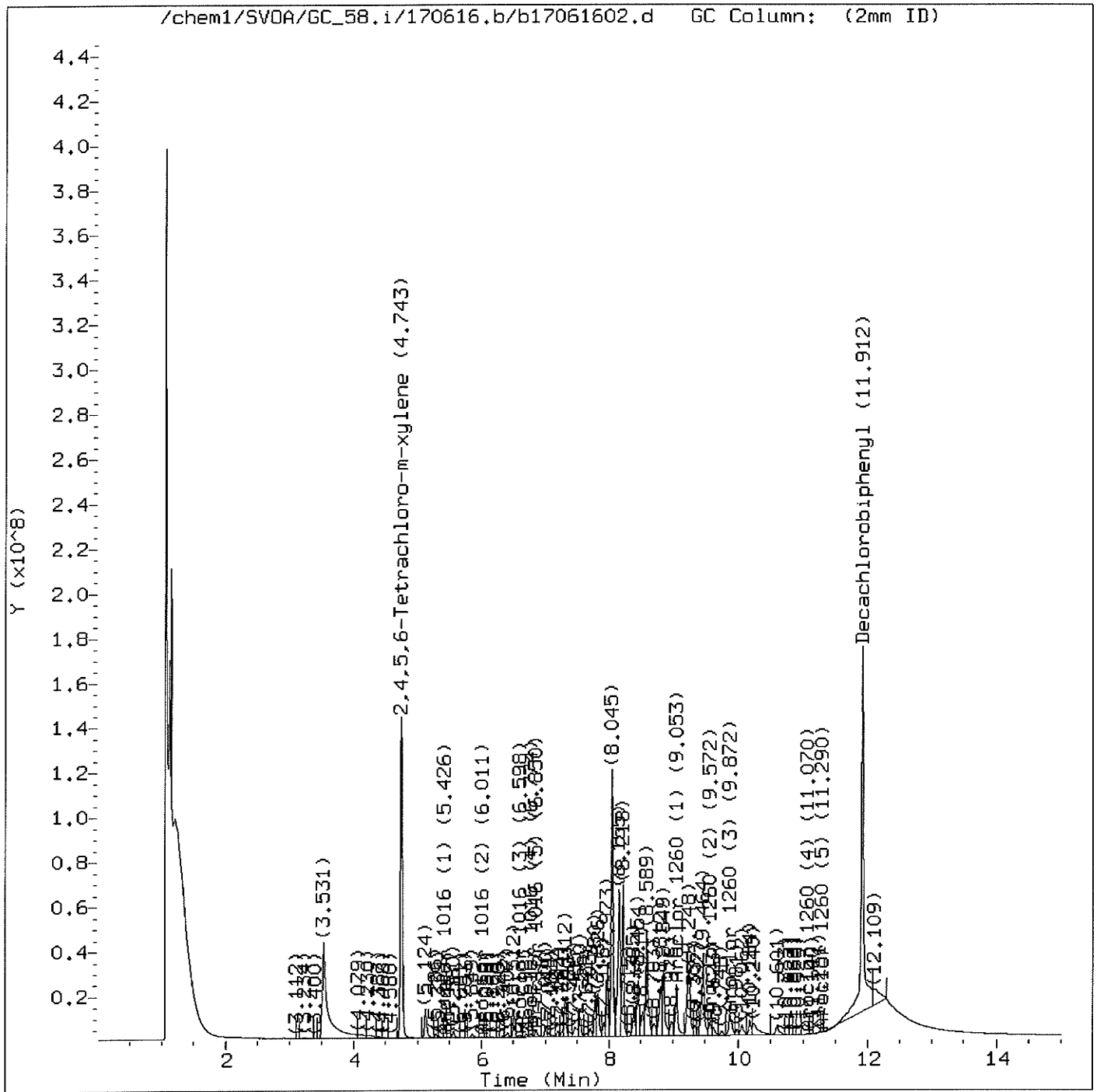
Target 3.5 esignature user ID: src3

M

Audit/management approval: \_\_\_\_\_



Original Data File





# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-06-0746  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-06-13 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-06-14 20:26  
**REVIEWED BY:**  
**D/T REVIEWED:** 21

**DATA FILE:** /chem1/SVOA/GC\_58/170614/b1706143517061435

**# 8**      **CLIENT SAMPLE NUMBER:** TTP-W008

**LCS/MB BATCH:** 170613L13      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 1.00 each / ACTUAL: 1.00 each  
**MS/MSD BATCH:**      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/smpl      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:** Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	1.0	
Aroclor-1221	0.000	1.00	ND	1.0	
Aroclor-1232	0.000	1.00	ND	1.0	
Aroclor-1242	0.000	1.00	ND	1.0	
Aroclor-1248	0.000	1.00	ND	1.0	
Aroclor-1254	0.000	1.00	ND	1.0	
Aroclor-1260	0.000	1.00	ND	1.0	
Aroclor-1262	0.000	1.00	ND	1.0	
Aroclor-1268	0.000	1.00	ND	1.0	



Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061435.d  
 Report Date: 15-Jun-2017 09:52

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170614.b/b17061435.d  
 Lab Smp Id:  
 Inj Date : 14-JUN-2017 20:26  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-06-0746-8  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170614.b/b8082-n2.m  
 Meth Date : 15-Jun-2017 09:52 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 35  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	==	=====	=====	=====	=====	=====	( ppb)	(ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.743	4.739	0.004		4276717248		67.4724	67.5
M 2 Aroclor-1016					Compound Not Detected.			
3 Aroclor 1016 (1)					Compound Not Detected.			
4 Aroclor 1016 (2)					Compound Not Detected.			
5 Aroclor 1016 (3)					Compound Not Detected.			
6 Aroclor 1016 (4)					Compound Not Detected.			
7 Aroclor 1016 (5)					Compound Not Detected.			
M 8 Aroclor-1260					Compound Not Detected.			
9 Aroclor 1260 (1)					Compound Not Detected.			
10 Aroclor 1260 (2)					Compound Not Detected.			
11 Aroclor 1260 (3)					Compound Not Detected.			
12 Aroclor 1260 (4)					Compound Not Detected.			
13 Aroclor 1260 (5)					Compound Not Detected.			
M 14 Aroclor-1221					Compound Not Detected.			
15 Aroclor 1221 (1)					Compound Not Detected.			
16 Aroclor 1221 (2)					Compound Not Detected.			
17 Aroclor 1221 (3)					Compound Not Detected.			
18 Aroclor 1221 (4)					Compound Not Detected.			
19 Aroclor 1221 (5)					Compound Not Detected.			
M 20 Aroclor-1232					Compound Not Detected.			
21 Aroclor 1232 (1)					Compound Not Detected.			



Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061435.d  
 Report Date: 15-Jun-2017 09:52

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
=====	==	=====	=====	=====	=====	=====
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				Compound Not Detected.		
39 Aroclor 1254 (1)				Compound Not Detected.		
40 Aroclor 1254 (2)				Compound Not Detected.		
41 Aroclor 1254 (3)				Compound Not Detected.		
42 Aroclor 1254 (4)				Compound Not Detected.		
43 Aroclor 1254 (5)				Compound Not Detected.		
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.912	11.918	-0.006	5335830328	85.4582	85.4



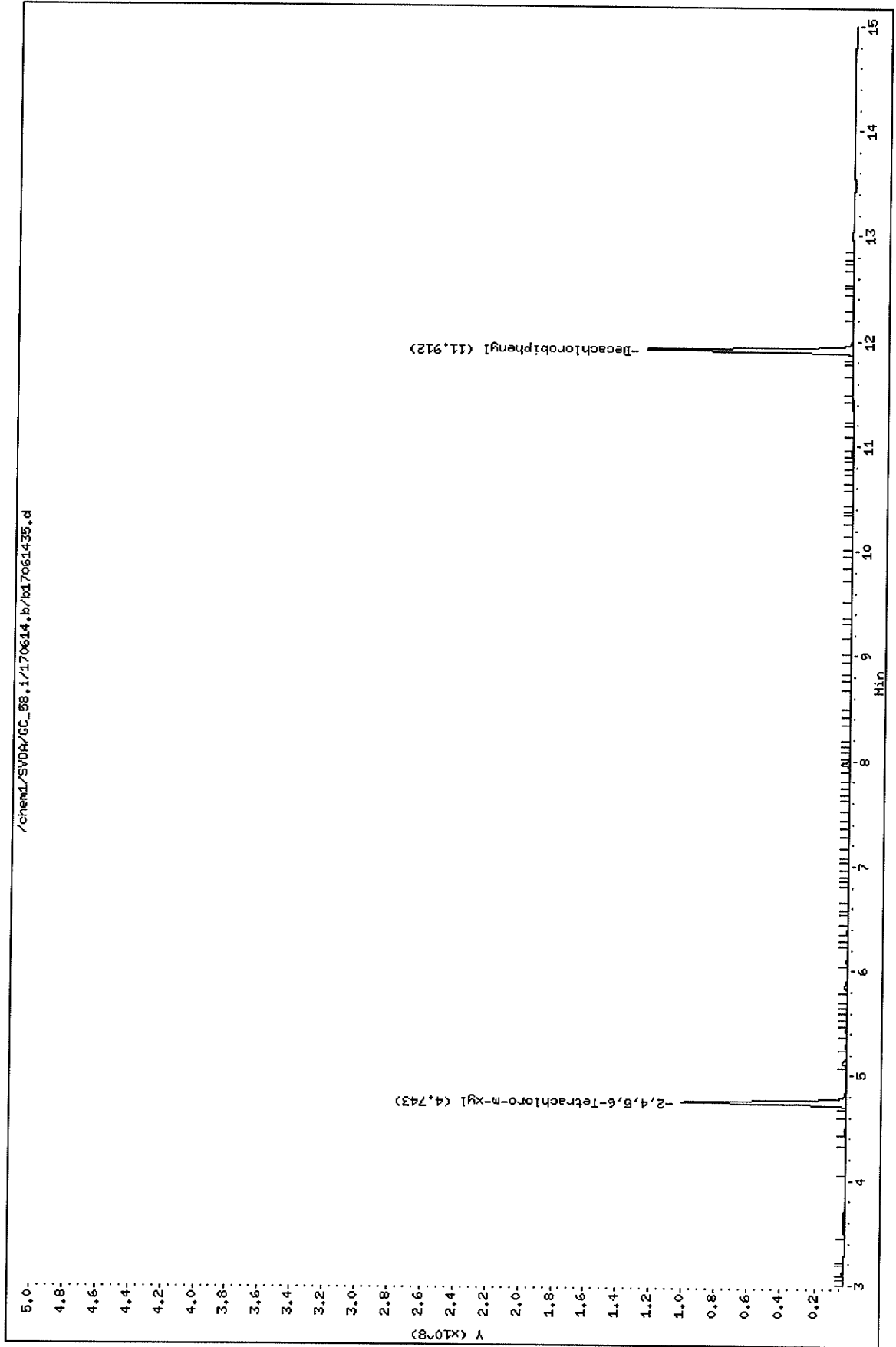
Data File: /chem1/SV0A/GC\_58.i/170614.b/b17061435.d  
Date : 14-JUN-2017 20:26  
Client ID:  
Sample Info: 17-06-0746-8

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-06-0746  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-06-13 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-06-14 20:44  
**REVIEWED BY:** *WJ*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170614/b1706143617061436

**# 9**                      **CLIENT SAMPLE NUMBER: TTP-W009**

**LCS/MB BATCH:** 170613L13                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 1.00 each / ACTUAL: 1.00 each  
**MS/MSD BATCH:**                                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/smpl                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:** Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	1.0	
Aroclor-1221	0.000	1.00	ND	1.0	
Aroclor-1232	0.000	1.00	ND	1.0	
Aroclor-1242	0.000	1.00	ND	1.0	
Aroclor-1248	0.000	1.00	ND	1.0	
Aroclor-1254	0.000	1.00	ND	1.0	
Aroclor-1260	0.000	1.00	ND	1.0	
Aroclor-1262	0.000	1.00	ND	1.0	
Aroclor-1268	0.000	1.00	ND	1.0	



Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061436.d  
 Report Date: 15-Jun-2017 09:52

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170614.b/b17061436.d  
 Lab Smp Id:  
 Inj Date : 14-JUN-2017 20:44  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-06-0746-9  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170614.b/b8082-n2.m  
 Meth Date : 15-Jun-2017 09:52 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 36  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.741	4.739	0.002	5549972959	87.5601	87.6
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				Compound Not Detected.		
9 Aroclor 1260 (1)				Compound Not Detected.		
10 Aroclor 1260 (2)				Compound Not Detected.		
11 Aroclor 1260 (3)				Compound Not Detected.		
12 Aroclor 1260 (4)				Compound Not Detected.		
13 Aroclor 1260 (5)				Compound Not Detected.		
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		

Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061436.d  
 Report Date: 15-Jun-2017 09:52

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
=====	==	=====	=====	=====	=====	=====
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				Compound Not Detected.		
39 Aroclor 1254 (1)				Compound Not Detected.		
40 Aroclor 1254 (2)				Compound Not Detected.		
41 Aroclor 1254 (3)				Compound Not Detected.		
42 Aroclor 1254 (4)				Compound Not Detected.		
43 Aroclor 1254 (5)				Compound Not Detected.		
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.910	11.918	-0.008	6833374154	109.443	109

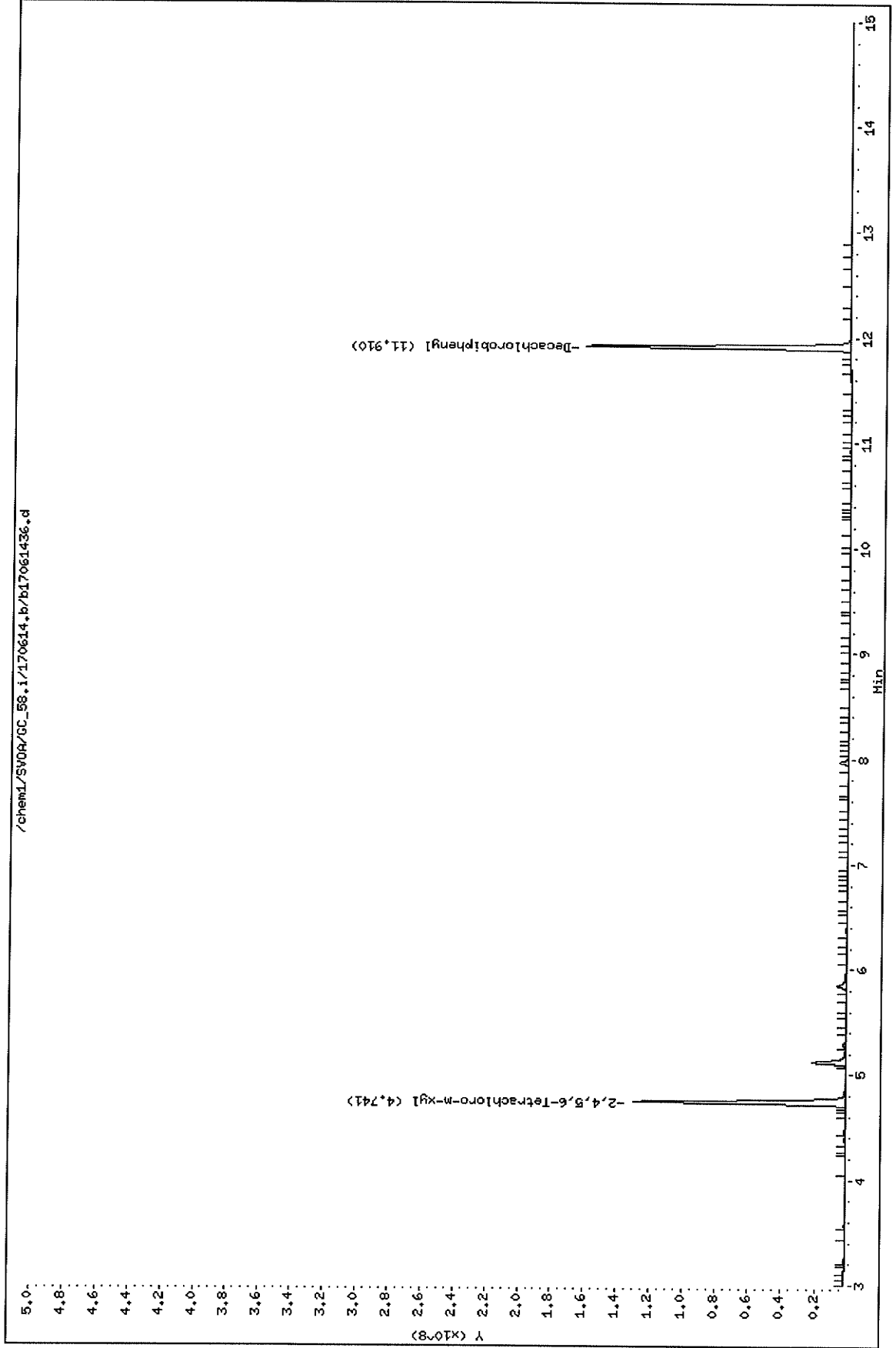


Data File: /chem1/SV0A/GC\_58.i/170614.b/b17061436.d  
Date : 14-JUN-2017 20:44  
Client ID:  
Sample Info: 17-06-0746-9

Instrument: GC\_58.i

Operator: 944  
Column diameter: 2.00

Column phase:





# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-06-0746  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-06-13 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-06-14 21:02  
**REVIEWED BY:** M  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170614/b1706143717061437

**# 10**                      **CLIENT SAMPLE NUMBER:** TTP-W010

**LCS/MB BATCH:** 170613L13                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 1.00 each / ACTUAL: 1.00 each  
**MS/MSD BATCH:**                                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/smpl                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:** Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	1.0	
Aroclor-1221	0.000	1.00	ND	1.0	
Aroclor-1232	0.000	1.00	ND	1.0	
Aroclor-1242	0.000	1.00	ND	1.0	
Aroclor-1248	0.000	1.00	ND	1.0	
Aroclor-1254	0.000	1.00	ND	1.0	
Aroclor-1260	0.000	1.00	ND	1.0	
Aroclor-1262	0.000	1.00	ND	1.0	
Aroclor-1268	0.000	1.00	ND	1.0	

Return to Contents

Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061437.d  
 Report Date: 15-Jun-2017 09:52

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170614.b/b17061437.d  
 Lab Smp Id:  
 Inj Date : 14-JUN-2017 21:02  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-06-0746-10  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170614.b/b8082-n2.m  
 Meth Date : 15-Jun-2017 09:52 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 37  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.745	4.739	0.006	4511191160	71.1716	71.2		
M 2 Aroclor-1016								
3 Aroclor 1016 (1)								
4 Aroclor 1016 (2)								
5 Aroclor 1016 (3)								
6 Aroclor 1016 (4)								
7 Aroclor 1016 (5)								
M 8 Aroclor-1260								
9 Aroclor 1260 (1)								
10 Aroclor 1260 (2)								
11 Aroclor 1260 (3)								
12 Aroclor 1260 (4)								
13 Aroclor 1260 (5)								
M 14 Aroclor-1221								
15 Aroclor 1221 (1)								
16 Aroclor 1221 (2)								
17 Aroclor 1221 (3)								
18 Aroclor 1221 (4)								
19 Aroclor 1221 (5)								
M 20 Aroclor-1232								
21 Aroclor 1232 (1)								



Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061437.d  
 Report Date: 15-Jun-2017 09:52

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						Compound Not Detected.		
39 Aroclor 1254 (1)						Compound Not Detected.		
40 Aroclor 1254 (2)						Compound Not Detected.		
41 Aroclor 1254 (3)						Compound Not Detected.		
42 Aroclor 1254 (4)						Compound Not Detected.		
43 Aroclor 1254 (5)						Compound Not Detected.		
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	11.919	11.918	0.001	6924904259	110.909	111		

Data File: /chem1/SVDA/GC\_58.i/170614.b/b17061437.d

Date : 14-JUN-2017 21:02

Client ID:

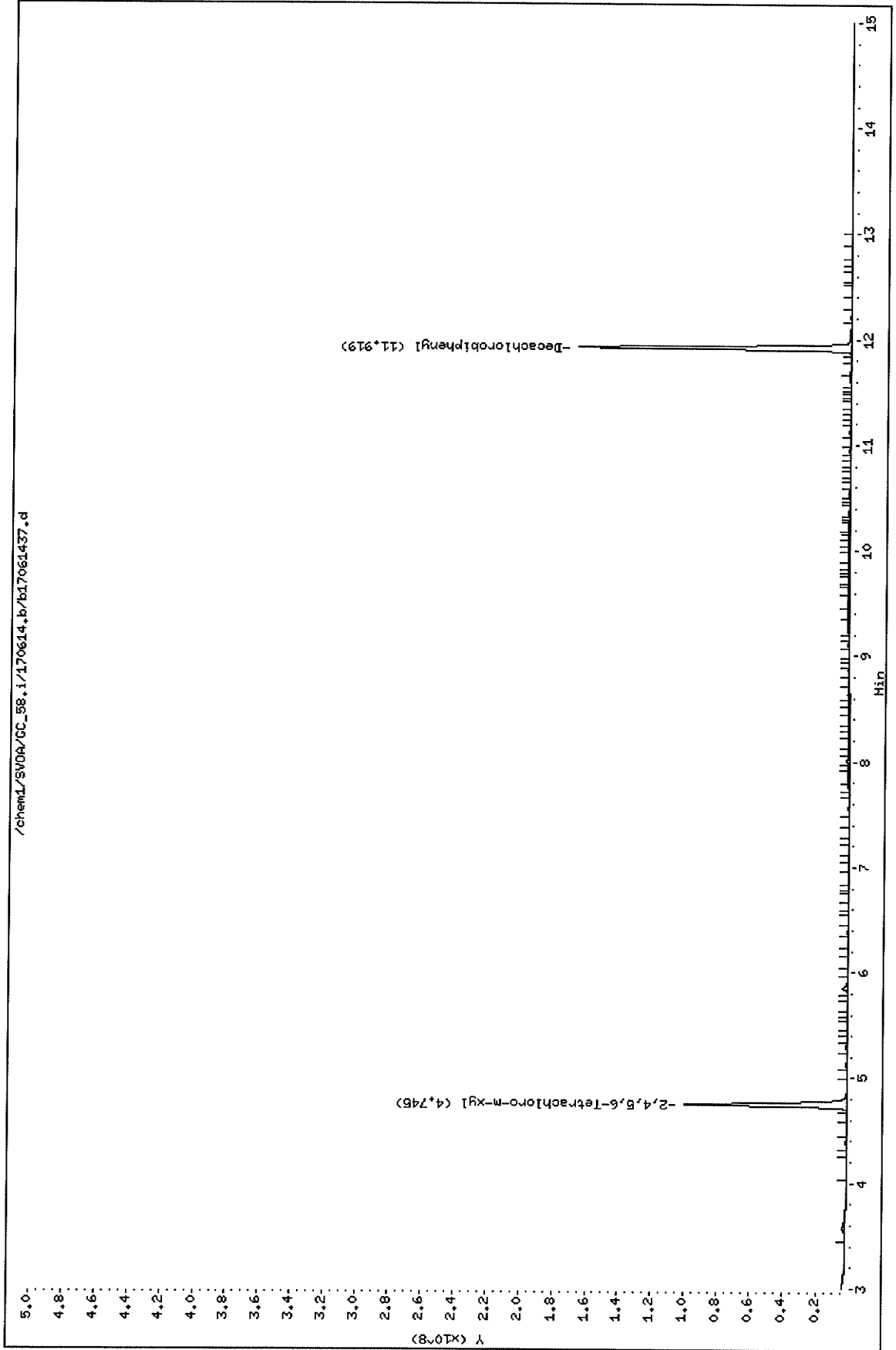
Sample Info: 17-06-0746-10

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-06-0746  
**INSTRUMENT:** GC 58  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-06-13 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-06-14 21:21  
**REVIEWED BY:** ✓  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170614/b1706143817061438

**# 11**      **CLIENT SAMPLE NUMBER:** TTP-W011

**LCS/MB BATCH:** 170613L13      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 1.00 each / ACTUAL: 1.00 each  
**MS/MSD BATCH:**      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/smpl      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:** Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	1.0	
Aroclor-1221	0.000	1.00	ND	1.0	
Aroclor-1232	0.000	1.00	ND	1.0	
Aroclor-1242	0.000	1.00	ND	1.0	
Aroclor-1248	0.000	1.00	ND	1.0	
Aroclor-1254	0.000	1.00	ND	1.0	
Aroclor-1260	0.000	1.00	ND	1.0	
Aroclor-1262	0.000	1.00	ND	1.0	
Aroclor-1268	0.000	1.00	ND	1.0	

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Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061438.d  
 Report Date: 15-Jun-2017 09:52

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170614.b/b17061438.d  
 Lab Smp Id:  
 Inj Date : 14-JUN-2017 21:21  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-06-0746-11  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170614.b/b8082-n2.m  
 Meth Date : 15-Jun-2017 09:52 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 38  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.814	4.739	0.075	4032568982	63.6205	63.6
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				Compound Not Detected.		
9 Aroclor 1260 (1)				Compound Not Detected.		
10 Aroclor 1260 (2)				Compound Not Detected.		
11 Aroclor 1260 (3)				Compound Not Detected.		
12 Aroclor 1260 (4)				Compound Not Detected.		
13 Aroclor 1260 (5)				Compound Not Detected.		
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		



Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061438.d  
 Report Date: 15-Jun-2017 09:52

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Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
=====	==	=====	=====	=====	=====	=====	=====	=====
22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						Compound Not Detected.		
39 Aroclor 1254 (1)						Compound Not Detected.		
40 Aroclor 1254 (2)						Compound Not Detected.		
41 Aroclor 1254 (3)						Compound Not Detected.		
42 Aroclor 1254 (4)						Compound Not Detected.		
43 Aroclor 1254 (5)						Compound Not Detected.		
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	11.935	11.918	0.017	5793468632	92.7877	92.8		

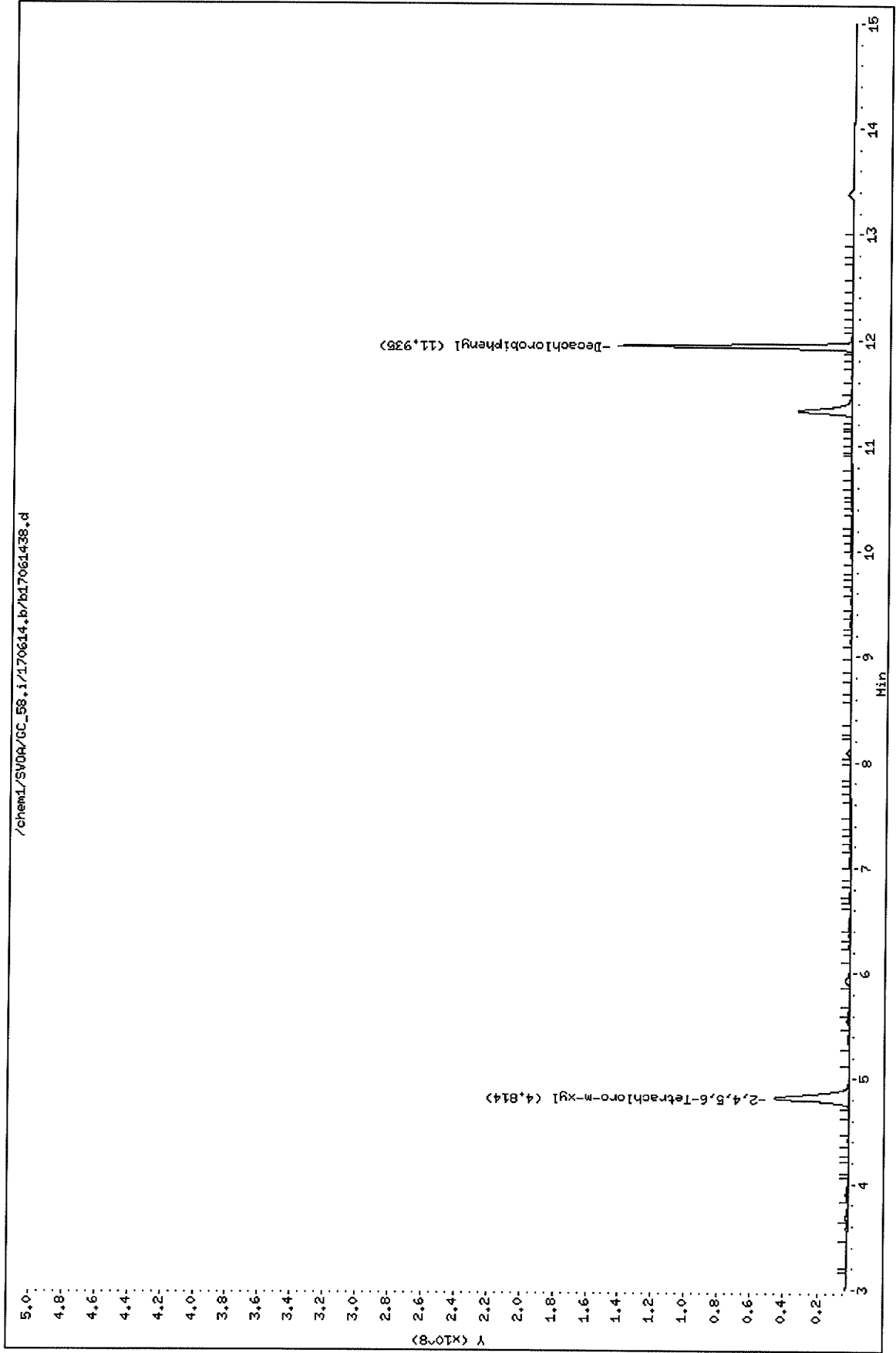


Data File: /chem1/SV0A/GC\_58.i/170614.b/17061438.d  
Date : 14-JUN-2017 21:21  
Client ID:  
Sample Info: 17-06-0746-11

Instrument: GC\_58.i

Operator: 944  
Column diameter: 2.00

Column phase:





# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-06-0746  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-06-13 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-06-14 21:39  
**REVIEWED BY:** 11  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170614/b1706143917061439

**# 12**      **CLIENT SAMPLE NUMBER:** TTP-W012

**LCS/MB BATCH:** 170613L13      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 1.00 each / ACTUAL: 1.00 each  
**MS/MSD BATCH:**      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/smpl      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:** Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	1.0	
Aroclor-1221	0.000	1.00	ND	1.0	
Aroclor-1232	0.000	1.00	ND	1.0	
Aroclor-1242	0.000	1.00	ND	1.0	
Aroclor-1248	0.000	1.00	ND	1.0	
Aroclor-1254	0.000	1.00	ND	1.0	
Aroclor-1260	0.000	1.00	ND	1.0	
Aroclor-1262	0.000	1.00	ND	1.0	
Aroclor-1268	0.000	1.00	ND	1.0	

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Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061439.d  
 Report Date: 15-Jun-2017 09:52

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170614.b/b17061439.d  
 Lab Smp Id:  
 Inj Date : 14-JUN-2017 21:39  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-06-0746-12  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170614.b/b8082-n2.m  
 Meth Date : 15-Jun-2017 09:52 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 39  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.765	4.739	0.026	4490540575	70.8458	70.8
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				Compound Not Detected.		
9 Aroclor 1260 (1)				Compound Not Detected.		
10 Aroclor 1260 (2)				Compound Not Detected.		
11 Aroclor 1260 (3)				Compound Not Detected.		
12 Aroclor 1260 (4)				Compound Not Detected.		
13 Aroclor 1260 (5)				Compound Not Detected.		
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		

Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061439.d  
 Report Date: 15-Jun-2017 09:52

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						Compound Not Detected.		
39 Aroclor 1254 (1)						Compound Not Detected.		
40 Aroclor 1254 (2)						Compound Not Detected.		
41 Aroclor 1254 (3)						Compound Not Detected.		
42 Aroclor 1254 (4)						Compound Not Detected.		
43 Aroclor 1254 (5)						Compound Not Detected.		
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	11.946	11.918	0.028	6655703104	106.597	106		



Data File: /chem1/SVDA/GC\_58.i/170614.b/b17061439.d

Date : 14-JUN-2017 21:39

Client ID:

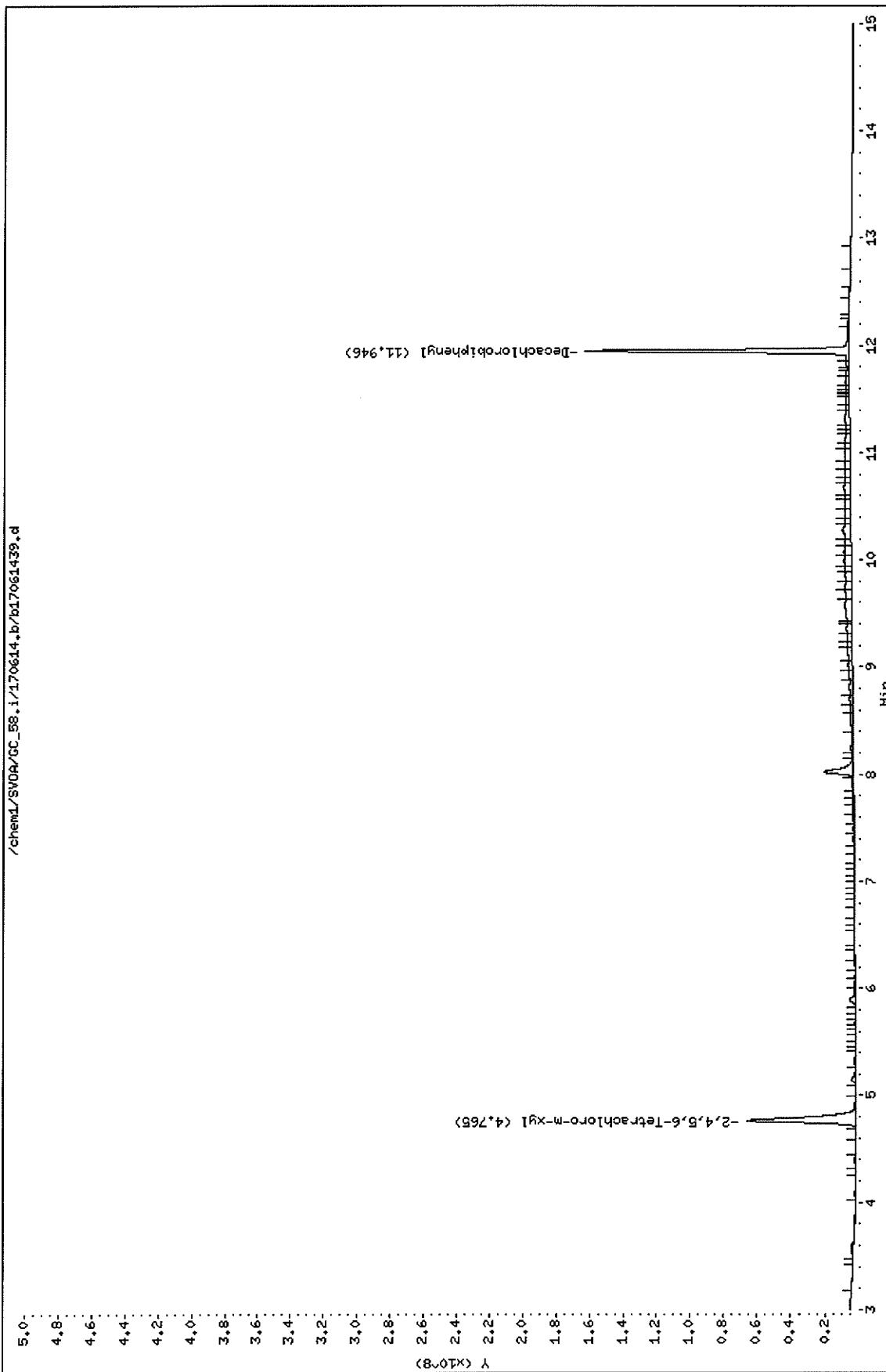
Sample Info: 17-06-0746-12

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column Phase:



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-06-0746  
**INSTRUMENT:** GC 58  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-06-13 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-06-14 21:56  
**REVIEWED BY:** *~*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170614/b1706144017061440

**# 13**                      **CLIENT SAMPLE NUMBER: TTP-W013**

**LCS/MB BATCH:** 170613L13                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 1.00 each / ACTUAL: 1.00 each  
**MS/MSD BATCH:**                                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/smpl                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:** Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	1.0	
Aroclor-1221	0.000	1.00	ND	1.0	
Aroclor-1232	0.000	1.00	ND	1.0	
Aroclor-1242	0.000	1.00	ND	1.0	
Aroclor-1248	0.000	1.00	ND	1.0	
Aroclor-1254	0.000	1.00	ND	1.0	
Aroclor-1260	0.000	1.00	ND	1.0	
Aroclor-1262	0.000	1.00	ND	1.0	
Aroclor-1268	0.000	1.00	ND	1.0	

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Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061440.d  
 Report Date: 15-Jun-2017 09:52

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170614.b/b17061440.d  
 Lab Smp Id:  
 Inj Date : 14-JUN-2017 21:56  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-06-0746-13  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170614.b/b8082-n2.m  
 Meth Date : 15-Jun-2017 09:52 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 40  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.756	4.739	0.017	4874713314	76.9068	76.9		
M 2 Aroclor-1016					Compound Not Detected.			
3 Aroclor 1016 (1)					Compound Not Detected.			
4 Aroclor 1016 (2)					Compound Not Detected.			
5 Aroclor 1016 (3)					Compound Not Detected.			
6 Aroclor 1016 (4)					Compound Not Detected.			
7 Aroclor 1016 (5)					Compound Not Detected.			
M 8 Aroclor-1260					Compound Not Detected.			
9 Aroclor 1260 (1)					Compound Not Detected.			
10 Aroclor 1260 (2)					Compound Not Detected.			
11 Aroclor 1260 (3)					Compound Not Detected.			
12 Aroclor 1260 (4)					Compound Not Detected.			
13 Aroclor 1260 (5)					Compound Not Detected.			
M 14 Aroclor-1221					Compound Not Detected.			
15 Aroclor 1221 (1)					Compound Not Detected.			
16 Aroclor 1221 (2)					Compound Not Detected.			
17 Aroclor 1221 (3)					Compound Not Detected.			
18 Aroclor 1221 (4)					Compound Not Detected.			
19 Aroclor 1221 (5)					Compound Not Detected.			
M 20 Aroclor-1232					Compound Not Detected.			
21 Aroclor 1232 (1)					Compound Not Detected.			

Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061440.d  
 Report Date: 15-Jun-2017 09:52

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Compounds	RT	EXP RT	DLT RT	RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ppb)	FINAL (ug/Kg)
=====	==	=====	=====	=====	=====	=====	=====
22 Aroclor 1232 (2)					Compound Not Detected.		
23 Aroclor 1232 (3)					Compound Not Detected.		
24 Aroclor 1232 (4)					Compound Not Detected.		
25 Aroclor 1232 (5)					Compound Not Detected.		
M 26 Aroclor-1242					Compound Not Detected.		
27 Aroclor 1242 (1)					Compound Not Detected.		
28 Aroclor 1242 (2)					Compound Not Detected.		
29 Aroclor 1242 (3)					Compound Not Detected.		
30 Aroclor 1242 (4)					Compound Not Detected.		
31 Aroclor 1242 (5)					Compound Not Detected.		
M 32 Aroclor-1248					Compound Not Detected.		
33 Aroclor 1248 (1)					Compound Not Detected.		
34 Aroclor 1248 (2)					Compound Not Detected.		
35 Aroclor 1248 (3)					Compound Not Detected.		
36 Aroclor 1248 (4)					Compound Not Detected.		
37 Aroclor 1248 (5)					Compound Not Detected.		
M 38 Aroclor-1254					Compound Not Detected.		
39 Aroclor 1254 (1)					Compound Not Detected.		
40 Aroclor 1254 (2)					Compound Not Detected.		
41 Aroclor 1254 (3)					Compound Not Detected.		
42 Aroclor 1254 (4)					Compound Not Detected.		
43 Aroclor 1254 (5)					Compound Not Detected.		
M 44 Aroclor-1262					Compound Not Detected.		
45 Aroclor 1262 (1)					Compound Not Detected.		
46 Aroclor 1262 (2)					Compound Not Detected.		
47 Aroclor 1262 (3)					Compound Not Detected.		
48 Aroclor 1262 (4)					Compound Not Detected.		
49 Aroclor 1262 (5)					Compound Not Detected.		
M 50 Aroclor-1268					Compound Not Detected.		
51 Aroclor 1268 (1)					Compound Not Detected.		
52 Aroclor 1268 (2)					Compound Not Detected.		
53 Aroclor 1268 (3)					Compound Not Detected.		
54 Aroclor 1268 (4)					Compound Not Detected.		
55 Aroclor 1268 (5)					Compound Not Detected.		
T 56 Decachlorobiphenyl	11.922	11.918	0.004	7286239370	116.696	117	

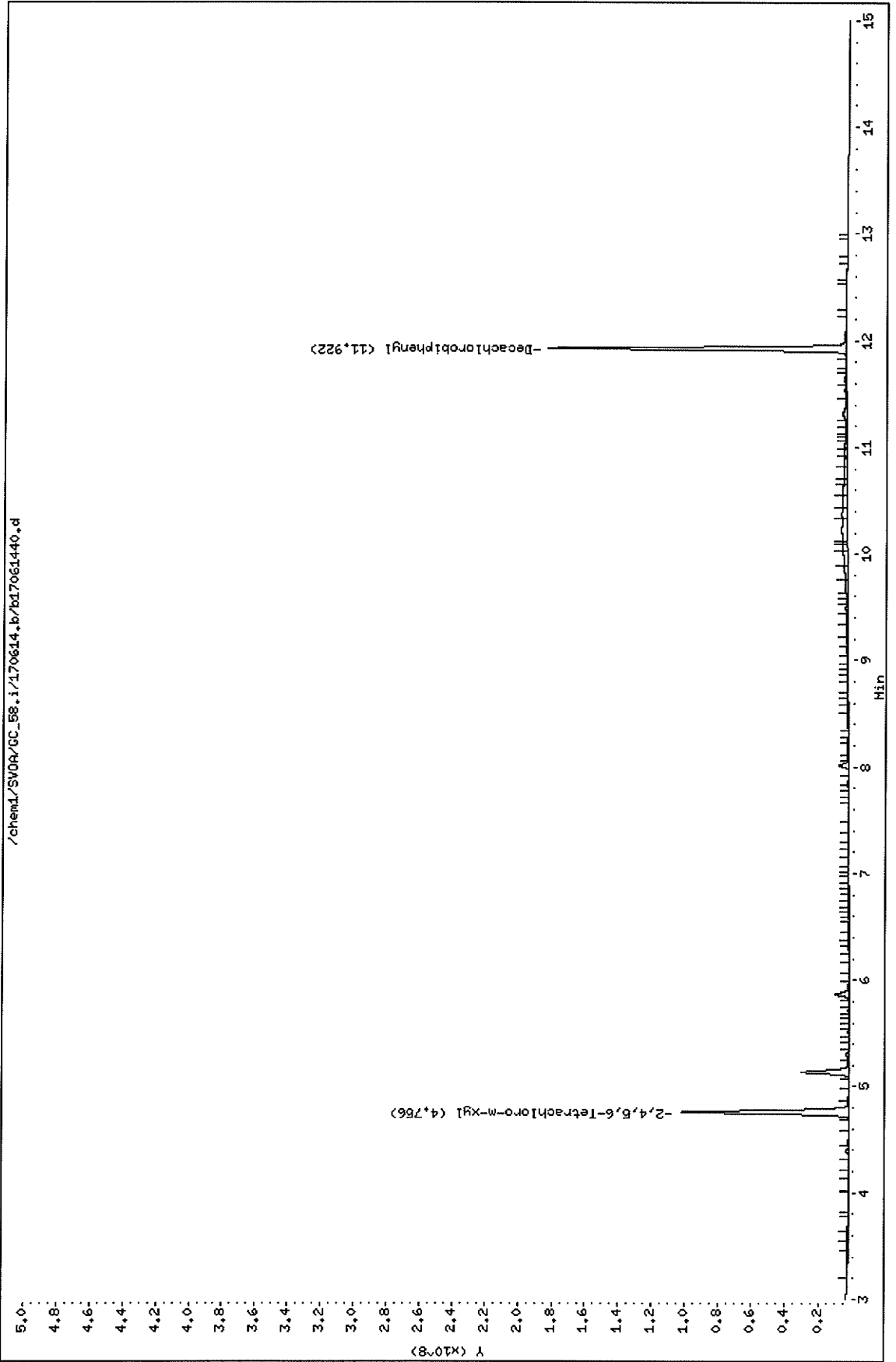
Data File: /chem1/SVOR/GC\_58.i/170614.b/b17061440.d  
Date : 14-JUN-2017 21:56  
Client ID:  
Sample Info: 17-06-0746-13

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:





# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-06-0746  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-06-13 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-06-14 22:14  
**REVIEWED BY:**  
**D/T REVIEWED:** *u*

**DATA FILE:** /chem1/SVOA/GC\_58/170614/b1706144117061441

**# 14**      **CLIENT SAMPLE NUMBER:** TTP-W014

**LCS/MB BATCH:** 170613L13      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 1.00 each / ACTUAL: 1.00 each  
**MS/MSD BATCH:**      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/smpl      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:** Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	1.0	
Aroclor-1221	0.000	1.00	ND	1.0	
Aroclor-1232	0.000	1.00	ND	1.0	
Aroclor-1242	0.000	1.00	ND	1.0	
Aroclor-1248	0.000	1.00	ND	1.0	
Aroclor-1254	0.000	1.00	ND	1.0	
Aroclor-1260	0.000	1.00	ND	1.0	
Aroclor-1262	0.000	1.00	ND	1.0	
Aroclor-1268	0.000	1.00	ND	1.0	



Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061441.d  
 Report Date: 15-Jun-2017 09:52

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170614.b/b17061441.d  
 Lab Smp Id:  
 Inj Date : 14-JUN-2017 22:14  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-06-0746-14  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170614.b/b8082-n2.m  
 Meth Date : 15-Jun-2017 09:52 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 41  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.755	4.739	0.016	4719022384	74.4505	74.4
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				Compound Not Detected.		
9 Aroclor 1260 (1)				Compound Not Detected.		
10 Aroclor 1260 (2)				Compound Not Detected.		
11 Aroclor 1260 (3)				Compound Not Detected.		
12 Aroclor 1260 (4)				Compound Not Detected.		
13 Aroclor 1260 (5)				Compound Not Detected.		
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		



Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061441.d  
 Report Date: 15-Jun-2017 09:52

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Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						Compound Not Detected.		
39 Aroclor 1254 (1)						Compound Not Detected.		
40 Aroclor 1254 (2)						Compound Not Detected.		
41 Aroclor 1254 (3)						Compound Not Detected.		
42 Aroclor 1254 (4)						Compound Not Detected.		
43 Aroclor 1254 (5)						Compound Not Detected.		
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	11.922	11.918	0.004	7209983724	115.474	115		

Data File: /chem1/SV00/GC\_58.i/170614.b/b17061441.d

Date : 14-JUN-2017 22:14

Client ID:

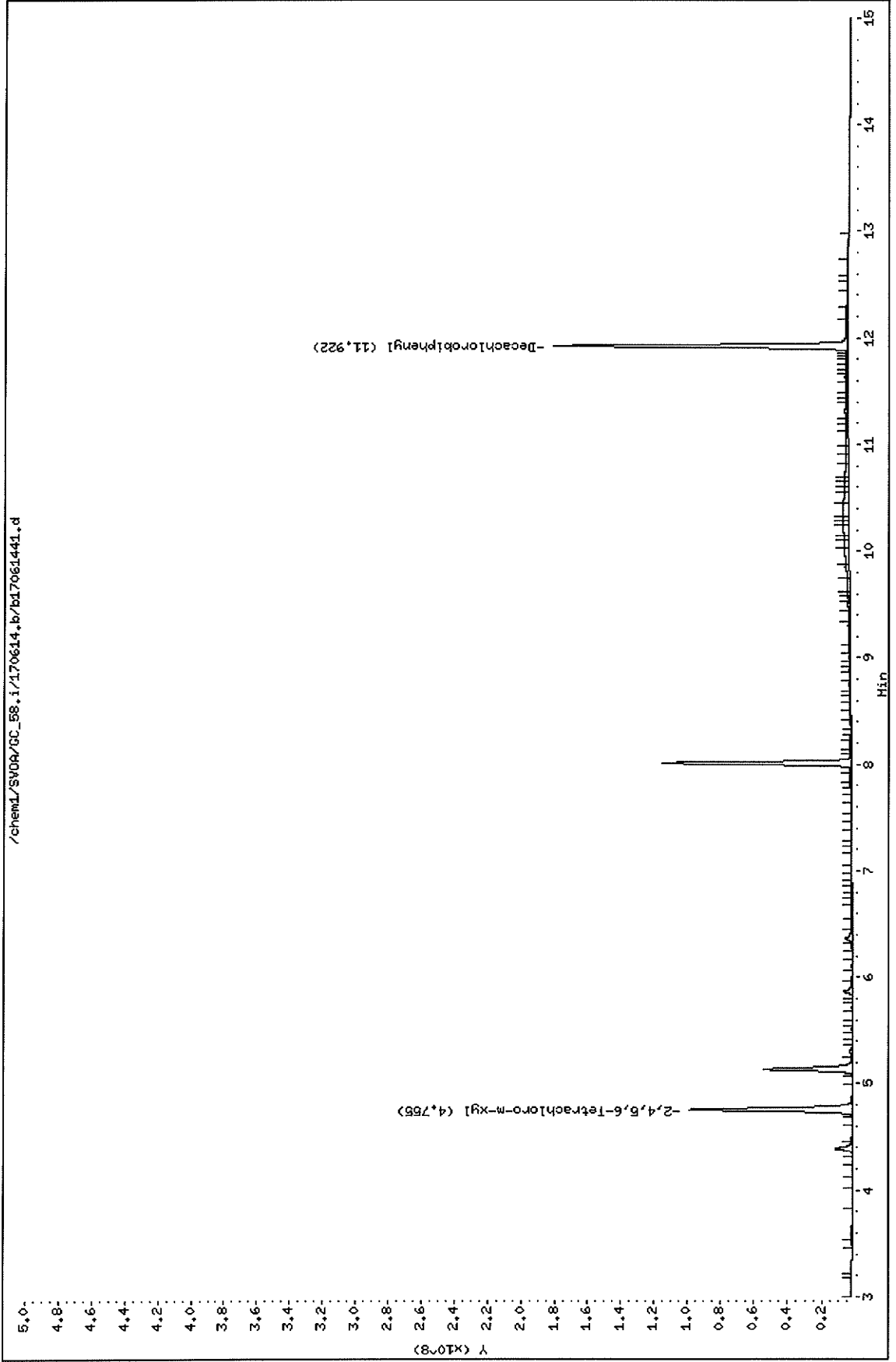
Sample Info: 17-06-0746-14

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:




# EPA METHOD 8082 PCB

## Quality Control

Method Blank  
LCS/LCSD  
MS/MSD

METHOD BLANK ASSOCIATION SUMMARY  
FOR METHOD: EPA 8082

**MB SAMPLE ID:** 099-12-582-537  
**MB BATCH ID:** 170613L13  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-06-13 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-06-14 17:45  
**REVIEWED BY:**   
**D/T REVIEWED:**  
**MATRIX:** Filter

**DATA FILE:** /chem1/SVOA/GC\_58/170614/b1706142617061426

**CLIENT WORK ORDER: 17-06-0746**

S#	RUN TYPE	CLIENT SAMPLE ID	D/T ANALYZED	DATA FILE
1	TTP-W001		2017-06-14 18:21	/chem1/SVOA/GC_58/170614/b1706142817061428
2	TTP-W002		2017-06-14 18:39	/chem1/SVOA/GC_58/170614/b1706142917061429
3	TTP-W003		2017-06-14 18:57	/chem1/SVOA/GC_58/170614/b1706143017061430
4	TTP-W004		2017-06-14 19:15	/chem1/SVOA/GC_58/170614/b1706143117061431
5	TTP-W005		2017-06-14 19:33	/chem1/SVOA/GC_58/170614/b1706143217061432
6	TTP-W006		2017-06-14 19:51	/chem1/SVOA/GC_58/170614/b1706143317061433
7	TTP-W007		2017-06-14 20:08	/chem1/SVOA/GC_58/170614/b1706143417061434
8	TTP-W008		2017-06-14 20:26	/chem1/SVOA/GC_58/170614/b1706143517061435
9	TTP-W009		2017-06-14 20:44	/chem1/SVOA/GC_58/170614/b1706143617061436
10	TTP-W010		2017-06-14 21:02	/chem1/SVOA/GC_58/170614/b1706143717061437
11	TTP-W011		2017-06-14 21:21	/chem1/SVOA/GC_58/170614/b1706143817061438
12	TTP-W012		2017-06-14 21:39	/chem1/SVOA/GC_58/170614/b1706143917061439
13	TTP-W013		2017-06-14 21:56	/chem1/SVOA/GC_58/170614/b1706144017061440
14	TTP-W014		2017-06-14 22:14	/chem1/SVOA/GC_58/170614/b1706144117061441

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# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 099-12-582  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-06-13 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-06-14 17:45  
**REVIEWED BY:** 4  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170614/b1706142617061426

**# MB**                      **CLIENT SAMPLE NUMBER:** Method Blank

**LCS/MB BATCH:** 170613L13                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 1.00 each / ACTUAL: 1.00 each  
**MS/MSD BATCH:**                                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/smpl                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	1.0	
Aroclor-1221	0.000	1.00	ND	1.0	
Aroclor-1232	0.000	1.00	ND	1.0	
Aroclor-1242	0.000	1.00	ND	1.0	
Aroclor-1248	0.000	1.00	ND	1.0	
Aroclor-1254	0.000	1.00	ND	1.0	
Aroclor-1260	0.000	1.00	ND	1.0	
Aroclor-1262	0.000	1.00	ND	1.0	
Aroclor-1268	0.000	1.00	ND	1.0	



# LCS / LCSD QUALITY CONTROL SHEET FOR METHOD: EPA 8082

LCS/LCSD SAMPLE ID: 099-12-582-537  
LCS/LCSD BATCH: 170613L13  
INSTRUMENTS:  
LCS: GC 58  
LCSD: GC 58

EXTRACTION: EPA 3545  
D/T EXTRACTED:  
LCS: 2017-06-13 00:00  
LCSD: 2017-06-13 00:00

ANALYZED BY: 944  
D/T ANALYZED:  
LCS: 2017-06-14 22:32  
LCSD: 2017-06-14 22:50  
REVIEWED BY:  
D/T REVIEWED:

COMMENT:

<u>COMPOUND</u>	<u>ADDED</u>	<u>LCS CONC</u>	<u>LCS %REC</u>	<u>LCSD CONC</u>	<u>LCSD %REC</u>	<u>% REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Aroclor-1016	2.000	1.510	76	1.610	80	50-135	6	0-25	PASS	
Aroclor-1260	2.000	1.380	69	1.530	76	50-135	10	0-25	PASS	

Data Files:

<u>TYPE</u>	<u>DATA FILE</u>	<u>DATA FILE PATH</u>
LCS	17061442	/chem1/SVOA/GC_58/170614/b17061442
LCSD	17061443	/chem1/SVOA/GC_58/170614/b17061443





## SURROGATE RECOVERIES FOR METHOD: EPA 8082

WORK ORDER: 17-06-0746  
BATCH ID:  
LCS/MB: 170613L13  
MS:  
EXTRACTION: EPA 3545

REVIEWED BY: 4  
D/T REVIEWED:

**# 1**      **CLIENT SAMPLE NUMBER : TTP-W001**

INSTRUMENT: GC 58  
D/T EXTRACTED: 2017-06-13 00:00  
DATA FILE: /chem1/SVOA/GC\_58/170614/b1706142817061428

ANALYZED BY: 944  
D/T ANALYZED 2017-06-14 18:21

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	103	50-130	PASS	
2,4,5,6-Tetrachloro-m-Xylene	88	50-130	PASS	

**# 2**      **CLIENT SAMPLE NUMBER : TTP-W002**

INSTRUMENT: GC 58  
D/T EXTRACTED: 2017-06-13 00:00  
DATA FILE: /chem1/SVOA/GC\_58/170614/b1706142917061429

ANALYZED BY: 944  
D/T ANALYZED 2017-06-14 18:39

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	95	50-130	PASS	
2,4,5,6-Tetrachloro-m-Xylene	78	50-130	PASS	

**# 3**      **CLIENT SAMPLE NUMBER : TTP-W003**

INSTRUMENT: GC 58  
D/T EXTRACTED: 2017-06-13 00:00  
DATA FILE: /chem1/SVOA/GC\_58/170614/b1706143017061430

ANALYZED BY: 944  
D/T ANALYZED 2017-06-14 18:57

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	76	50-130	PASS	
2,4,5,6-Tetrachloro-m-Xylene	61	50-130	PASS	

**# 4**      **CLIENT SAMPLE NUMBER : TTP-W004**

INSTRUMENT: GC 58  
D/T EXTRACTED: 2017-06-13 00:00  
DATA FILE: /chem1/SVOA/GC\_58/170614/b1706143117061431

ANALYZED BY: 944  
D/T ANALYZED 2017-06-14 19:15

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	112	50-130	PASS	
2,4,5,6-Tetrachloro-m-Xylene	92	50-130	PASS	

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**SURROGATE RECOVERIES  
FOR METHOD: EPA 8082**

WORK ORDER: 17-06-0746  
 BATCH ID:  
LCS/MB:      **170613L13**  
MS:  
 EXTRACTION: EPA 3545

REVIEWED BY:  
D/T REVIEWED:      1

**# 5                      CLIENT SAMPLE NUMBER : TTP-W005**

INSTRUMENT:      GC 58  
D/T EXTRACTED:    2017-06-13 00:00  
DATA FILE:        /chem1/SVOA/GC\_58/170614/b1706143217061432

ANALYZED BY:      944  
D/T ANALYZED      2017-06-14 19:33

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	113	50-130	PASS	
2,4,5,6-Tetrachloro-m-Xylene	92	50-130	PASS	

**# 6                      CLIENT SAMPLE NUMBER : TTP-W006**

INSTRUMENT:      GC 58  
D/T EXTRACTED:    2017-06-13 00:00  
DATA FILE:        /chem1/SVOA/GC\_58/170614/b1706143317061433

ANALYZED BY:      944  
D/T ANALYZED      2017-06-14 19:51

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	108	50-130	PASS	
2,4,5,6-Tetrachloro-m-Xylene	90	50-130	PASS	

**# 7                      CLIENT SAMPLE NUMBER : TTP-W007**

INSTRUMENT:      GC 58  
D/T EXTRACTED:    2017-06-13 00:00  
DATA FILE:        /chem1/SVOA/GC\_58/170614/b1706143417061434

ANALYZED BY:      944  
D/T ANALYZED      2017-06-14 20:08

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	130	50-130	PASS	2S
2,4,5,6-Tetrachloro-m-Xylene	98	50-130	PASS	

**# 8                      CLIENT SAMPLE NUMBER : TTP-W008**

INSTRUMENT:      GC 58  
D/T EXTRACTED:    2017-06-13 00:00  
DATA FILE:        /chem1/SVOA/GC\_58/170614/b1706143517061435

ANALYZED BY:      944  
D/T ANALYZED      2017-06-14 20:26

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	85	50-130	PASS	
2,4,5,6-Tetrachloro-m-Xylene	68	50-130	PASS	



**SURROGATE RECOVERIES  
FOR METHOD: EPA 8082**

WORK ORDER: 17-06-0746  
 BATCH ID:  
LCS/MB:      170613L13  
MS:  
 EXTRACTION : EPA 3545

REVIEWED BY:  
D/T REVIEWED:      

**# 9                    CLIENT SAMPLE NUMBER : TTP-W009**

INSTRUMENT:      GC 58  
D/T EXTRACTED:    2017-06-13 00:00  
DATA FILE:        /chem1/SVOA/GC\_58/170614/b1706143617061436

ANALYZED BY:     944  
D/T ANALYZED    2017-06-14 20:44

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	109	50-130	PASS	
2,4,5,6-Tetrachloro-m-Xylene	88	50-130	PASS	

**# 10                   CLIENT SAMPLE NUMBER : TTP-W010**

INSTRUMENT:      GC 58  
D/T EXTRACTED:    2017-06-13 00:00  
DATA FILE:        /chem1/SVOA/GC\_58/170614/b1706143717061437

ANALYZED BY:     944  
D/T ANALYZED    2017-06-14 21:02

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	111	50-130	PASS	
2,4,5,6-Tetrachloro-m-Xylene	71	50-130	PASS	

**# 11                   CLIENT SAMPLE NUMBER : TTP-W011**

INSTRUMENT:      GC 58  
D/T EXTRACTED:    2017-06-13 00:00  
DATA FILE:        /chem1/SVOA/GC\_58/170614/b1706143817061438

ANALYZED BY:     944  
D/T ANALYZED    2017-06-14 21:21

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	93	50-130	PASS	
2,4,5,6-Tetrachloro-m-Xylene	64	50-130	PASS	

**# 12                   CLIENT SAMPLE NUMBER : TTP-W012**

INSTRUMENT:      GC 58  
D/T EXTRACTED:    2017-06-13 00:00  
DATA FILE:        /chem1/SVOA/GC\_58/170614/b1706143917061439

ANALYZED BY:     944  
D/T ANALYZED    2017-06-14 21:39

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	106	50-130	PASS	
2,4,5,6-Tetrachloro-m-Xylene	71	50-130	PASS	



**SURROGATE RECOVERIES  
FOR METHOD: EPA 8082**

WORK ORDER: 17-06-0746  
BATCH ID:  
LCS/MB: **170613L13**  
MS:  
EXTRACTION: EPA 3545

REVIEWED BY:  
D/T REVIEWED: M

**# 13**      CLIENT SAMPLE NUMBER: **TTP-W013**

INSTRUMENT: GC 58  
D/T EXTRACTED: 2017-06-13 00:00  
DATA FILE: /chem1/SVOA/GC\_58/170614/b1706144017061440

ANALYZED BY: 944  
D/T ANALYZED 2017-06-14 21:56

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	117	50-130	PASS	
2,4,5,6-Tetrachloro-m-Xylene	77	50-130	PASS	

**# 14**      CLIENT SAMPLE NUMBER: **TTP-W014**

INSTRUMENT: GC 58  
D/T EXTRACTED: 2017-06-13 00:00  
DATA FILE: /chem1/SVOA/GC\_58/170614/b1706144117061441

ANALYZED BY: 944  
D/T ANALYZED 2017-06-14 22:14

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	115	50-130	PASS	
2,4,5,6-Tetrachloro-m-Xylene	74	50-130	PASS	

**# MB**      CLIENT SAMPLE NUMBER: **Method Blank**

INSTRUMENT: GC 58  
D/T EXTRACTED: 2017-06-13 00:00  
DATA FILE: /chem1/SVOA/GC\_58/170614/b1706142617061426

ANALYZED BY: 944  
D/T ANALYZED 2017-06-14 17:45

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	81	50-130	PASS	
2,4,5,6-Tetrachloro-m-Xylene	81	50-130	PASS	

**# LCS**      CLIENT SAMPLE NUMBER: **Lab Control Sample**

INSTRUMENT: GC 58  
D/T EXTRACTED: 2017-06-13 00:00  
DATA FILE: /chem1/SVOA/GC\_58/170614/b1706144217061442

ANALYZED BY: 944  
D/T ANALYZED 2017-06-14 22:32

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	76	50-130	PASS	
2,4,5,6-Tetrachloro-m-Xylene	72	50-130	PASS	



**SURROGATE RECOVERIES  
FOR METHOD: EPA 8082**

WORK ORDER: 17-06-0746  
BATCH ID:  
LCS/MB: **170613L13**  
MS:  
EXTRACTION: EPA 3545

REVIEWED BY:  
D/T REVIEWED: 21

# LCD      CLIENT SAMPLE NUMBER : Lab Control Sample Duplicate

INSTRUMENT: GC 58  
D/T EXTRACTED: 2017-06-13 00:00  
DATA FILE: /chem1/SVOA/GC\_58/170614/b1706144317061443

ANALYZED BY: 944  
D/T ANALYZED 2017-06-14 22:50

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	82	50-130	PASS	
2,4,5,6-Tetrachloro-m-Xylene	76	50-130	PASS	

Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061426.d  
 Report Date: 15-Jun-2017 09:52

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170614.b/b17061426.d  
 Lab Smp Id:  
 Inj Date : 14-JUN-2017 17:45  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : MB 170613L13  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170614.b/b8082-n2.m  
 Meth Date : 15-Jun-2017 09:52 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 26  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.738	4.739	-0.001	5137641846	81.0549	81.0	
M 2 Aroclor-1016				Compound Not Detected.			
3 Aroclor 1016 (1)				Compound Not Detected.			
4 Aroclor 1016 (2)				Compound Not Detected.			
5 Aroclor 1016 (3)				Compound Not Detected.			
6 Aroclor 1016 (4)				Compound Not Detected.			
7 Aroclor 1016 (5)				Compound Not Detected.			
M 8 Aroclor-1260				Compound Not Detected.			
9 Aroclor 1260 (1)				Compound Not Detected.			
10 Aroclor 1260 (2)				Compound Not Detected.			
11 Aroclor 1260 (3)				Compound Not Detected.			
12 Aroclor 1260 (4)				Compound Not Detected.			
13 Aroclor 1260 (5)				Compound Not Detected.			
M 14 Aroclor-1221				Compound Not Detected.			
15 Aroclor 1221 (1)				Compound Not Detected.			
16 Aroclor 1221 (2)				Compound Not Detected.			
17 Aroclor 1221 (3)				Compound Not Detected.			
18 Aroclor 1221 (4)				Compound Not Detected.			
19 Aroclor 1221 (5)				Compound Not Detected.			
M 20 Aroclor-1232				Compound Not Detected.			
21 Aroclor 1232 (1)				Compound Not Detected.			



Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061426.d  
 Report Date: 15-Jun-2017 09:52

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
=====	==	=====	=====	=====	=====	=====	=====	=====
22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						Compound Not Detected.		
39 Aroclor 1254 (1)						Compound Not Detected.		
40 Aroclor 1254 (2)						Compound Not Detected.		
41 Aroclor 1254 (3)						Compound Not Detected.		
42 Aroclor 1254 (4)						Compound Not Detected.		
43 Aroclor 1254 (5)						Compound Not Detected.		
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	11.913	11.918	-0.005	5074843779	81.2783	81.3		

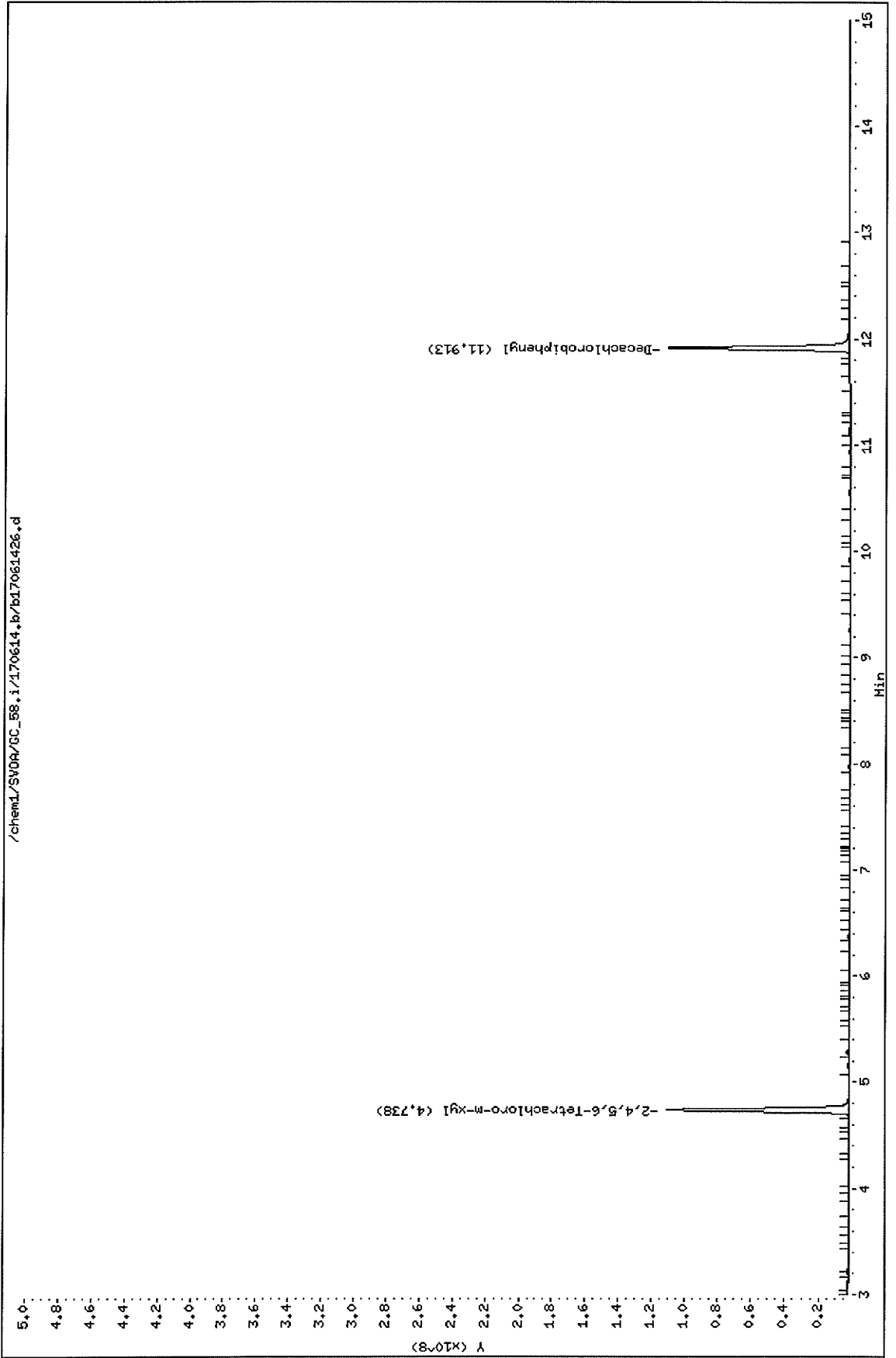
Data File: /chem1/SV0A/GC\_58.i/170614.b/b17061426.d  
Date : 14-JUN-2017 17:45  
Client ID:  
Sample Info: MB 170613L13

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:





Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061442.d  
 Report Date: 15-Jun-2017 09:52

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170614.b/b17061442.d  
 Lab Smp Id:  
 Inj Date : 14-JUN-2017 22:32  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : LCS 170613L13  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170614.b/b8082-n2.m  
 Meth Date : 15-Jun-2017 09:52 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 42  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.742	4.739	0.003	4531357466	71.4897	71.5
M 2 Aroclor-1016				1735527519	150.828	151
3 Aroclor 1016 (1)	5.453	5.450	0.003	183602209	163.506	164
4 Aroclor 1016 (2)	5.997	5.995	0.002	323201692	153.571	154
5 Aroclor 1016 (3)	6.580	6.579	0.001	701185617	148.539	148
6 Aroclor 1016 (4)	6.750	6.749	0.001	296445081	149.282	149
7 Aroclor 1016 (5)	6.877	6.876	0.001	231092920	146.931	147
M 8 Aroclor-1260				1598334032	138.539	138
9 Aroclor 1260 (1)	9.053	9.056	-0.003	487910289	141.423	141
10 Aroclor 1260 (2)	9.565	9.569	-0.004	351450260	137.273	137
11 Aroclor 1260 (3)	9.902	9.907	-0.005	385219057	134.396	134
12 Aroclor 1260 (4)	11.073	11.080	-0.007	106566152	131.505	132
13 Aroclor 1260 (5)	11.255	11.262	-0.007	267188274	144.413	144
T 56 Decachlorobiphenyl	11.912	11.918	-0.006	4764474466	76.3074	76.3



Data File: /chem1/SV0A/GC\_58.i/170614.b/b17061442.d

Date : 14-JUN-2017 22:32

Client ID:

Sample Info: LCS 170613L13

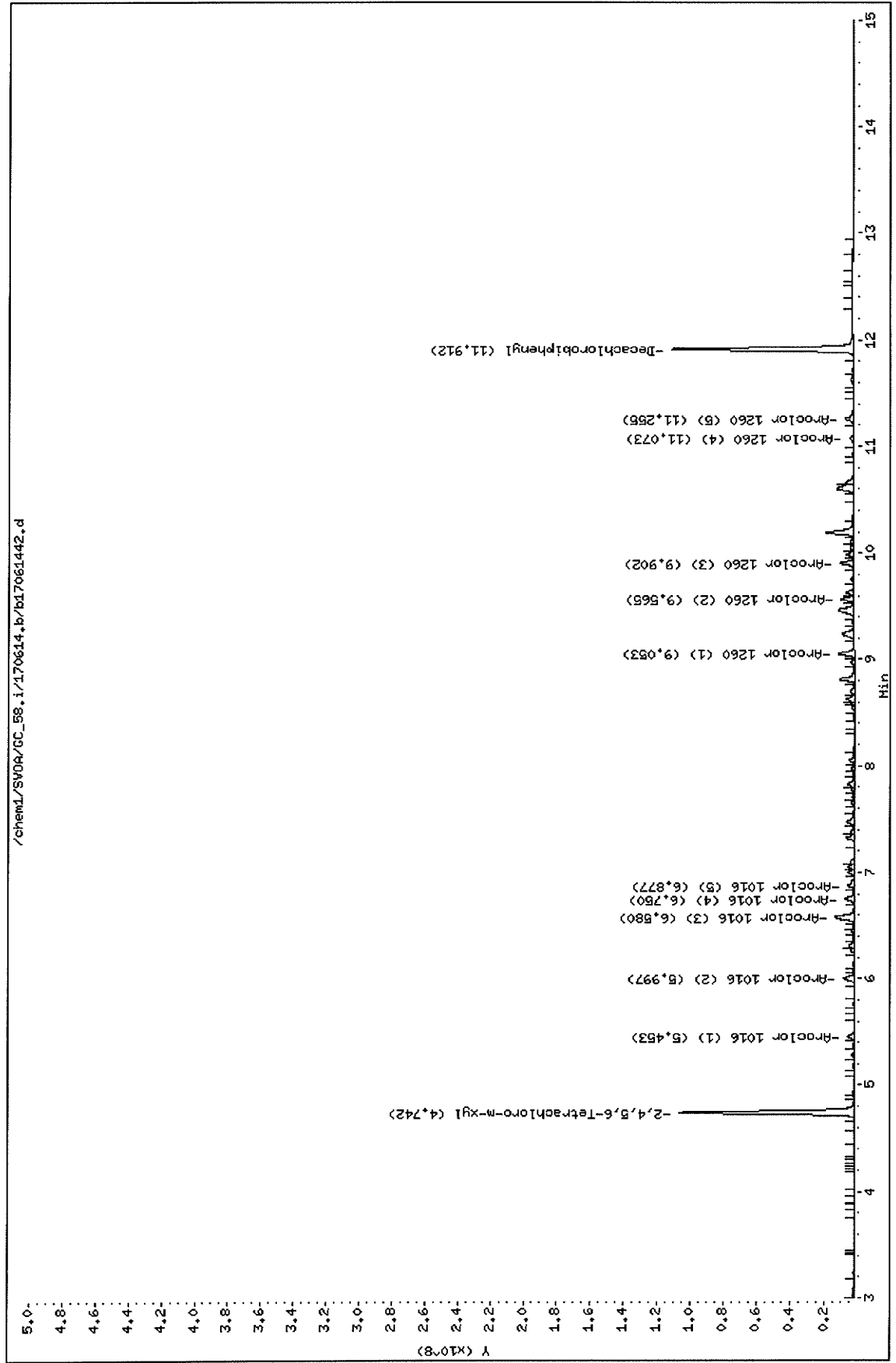
Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:

/chem1/SV0A/GC\_58.i/170614.b/b17061442.d



Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061443.d  
 Report Date: 15-Jun-2017 09:52

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170614.b/b17061443.d  
 Lab Smp Id:  
 Inj Date : 14-JUN-2017 22:50  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : LCSD 170613L13  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170614.b/b8082-n2.m  
 Meth Date : 15-Jun-2017 09:52 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 43  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.743	4.739	0.004	4816756452	75.9924	76.0
M 2 Aroclor-1016				1856794606	161.367	161
3 Aroclor 1016 (1)	5.454	5.450	0.004	191843803	170.846	171
4 Aroclor 1016 (2)	5.998	5.995	0.003	340595715	161.836	162
5 Aroclor 1016 (3)	6.582	6.579	0.003	752635475	159.438	159
6 Aroclor 1016 (4)	6.752	6.749	0.003	320419256	161.355	161
7 Aroclor 1016 (5)	6.879	6.876	0.003	251300357	159.779	160
M 8 Aroclor-1260				1764592868	152.950	153
9 Aroclor 1260 (1)	9.057	9.056	0.001	547720270	158.760	159
10 Aroclor 1260 (2)	9.568	9.569	-0.001	393009521	153.506	154
11 Aroclor 1260 (3)	9.905	9.907	-0.002	420471152	146.695	147
12 Aroclor 1260 (4)	11.076	11.080	-0.004	116366092	143.598	144
13 Aroclor 1260 (5)	11.259	11.262	-0.003	287025833	155.135	155
T 56 Decachlorobiphenyl	11.915	11.918	-0.003	5130486194	82.1694	82.2



Data File: /chem1/SV0A/GC\_58.i/170614.b/b17061443.d

Date : 14-JUN-2017 22:50

Client ID:

Sample Info: LCSD 170613L13

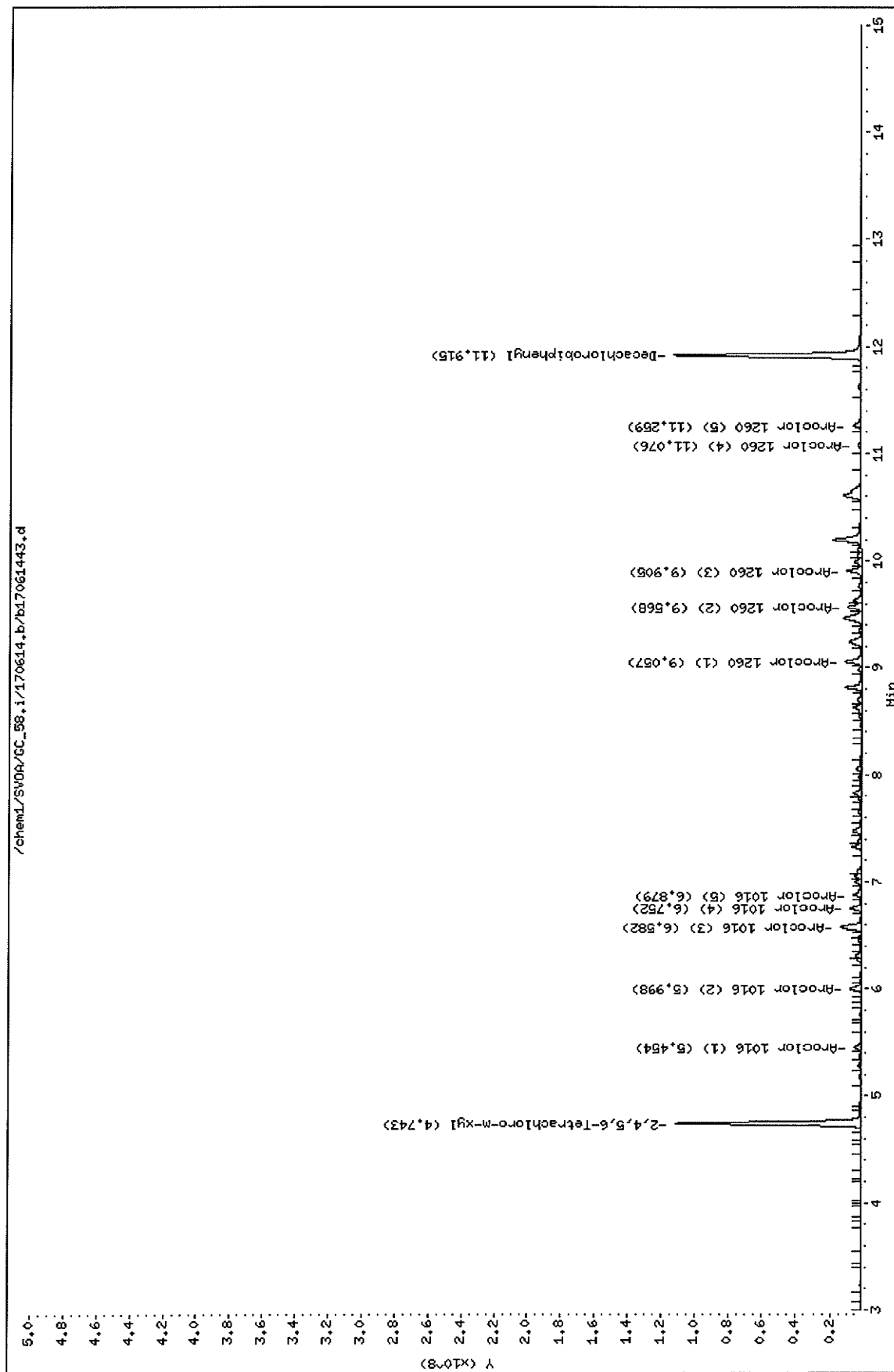
Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:

/chem1/SV0A/GC\_58.i/170614.b/b17061443.d



# EPA METHOD 8082 PCB

## Continuing Calibration

## CCV ASSOCIATION SUMMARY FOR METHOD: EPA 8082

**BATCH ID:** 170614A034  
**INSTRUMENT:** GC 58

**ANALYZED BY:** 944

**WORK ORDER:** 099-12-532  
**MATRIX:** Water

**REVIEWED BY:** *m*  
**D/T REVIEWED:**

<u>CEL SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>D/T ANALYZED</u>	<u>DATA FILE</u>
9743	Daily Calibration	2017-06-14 17:27	/chem1/SVOA/GC_58/170614/b1706142517061425

**WORK ORDER:** 17-06-0746  
**MATRIX:** Wipe

**REVIEWED BY:**  
**D/T REVIEWED:**

<u>CEL SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>D/T ANALYZED</u>	<u>DATA FILE</u>
1	TTP-W001	2017-06-14 18:21	/chem1/SVOA/GC_58/170614/b1706142817061428
2	TTP-W002	2017-06-14 18:39	/chem1/SVOA/GC_58/170614/b1706142917061429
3	TTP-W003	2017-06-14 18:57	/chem1/SVOA/GC_58/170614/b1706143017061430
4	TTP-W004	2017-06-14 19:15	/chem1/SVOA/GC_58/170614/b1706143117061431
5	TTP-W005	2017-06-14 19:33	/chem1/SVOA/GC_58/170614/b1706143217061432
6	TTP-W006	2017-06-14 19:51	/chem1/SVOA/GC_58/170614/b1706143317061433
7	TTP-W007	2017-06-14 20:08	/chem1/SVOA/GC_58/170614/b1706143417061434
8	TTP-W008	2017-06-14 20:26	/chem1/SVOA/GC_58/170614/b1706143517061435
9	TTP-W009	2017-06-14 20:44	/chem1/SVOA/GC_58/170614/b1706143617061436
10	TTP-W010	2017-06-14 21:02	/chem1/SVOA/GC_58/170614/b1706143717061437
11	TTP-W011	2017-06-14 21:21	/chem1/SVOA/GC_58/170614/b1706143817061438
12	TTP-W012	2017-06-14 21:39	/chem1/SVOA/GC_58/170614/b1706143917061439
13	TTP-W013	2017-06-14 21:56	/chem1/SVOA/GC_58/170614/b1706144017061440
14	TTP-W014	2017-06-14 22:14	/chem1/SVOA/GC_58/170614/b1706144117061441

# CONTINUING CALIBRATION VERIFICATION QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**CCV WORK ORDER:** 099-12-532-9743-5154

**BATCH ID:**

1705231001  
170614A034  
GC 58

**ANALYZED BY:** 944

**D/T ANALYZED:**

2017-05-23 16:52  
2017-06-14 17:27

**INITIAL:**

**CCV:**

**REVIEWED BY:**

**D/T REVIEWED:**

*W*

**DATA FILE:** /chem1/SVOA/GC\_58/170614/b1706142517061425

<u>COMPOUND NAME</u>	<u>TYPE</u>	<u>CALIB MODEL</u>	<u>MIN RF</u>	<u>AVG RF</u>	<u>CCV RF</u>	<u>AMOUNT</u>	<u>CCV CONC</u>	<u>CCV %D</u>	<u>CCV %D CL</u>	<u>STATUS</u>
Aroclor-1016	C	Avg Resp	0.00	11506630.029	10709246.256			7	0-15	PASS
Aroclor-1260	C	Avg Resp	0.00	11537050.448	10513703.698			9	0-15	PASS

MIN RF: Method Specified Minimum Response Factor

Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061425.d  
 Report Date: 06/14/2017 17:58

Eurofins CalScience  
 Calibration Verification Report

Instrument ID: GC\_58.i Injection Date and Time: 14-JUN-2017 17:27  
 Sample Name: PCB CCV 500 PPB P051717I Initial Calibration Date(s): 04-OCT-2016 23-MAY-2017  
 Sublist used: p1016\_1260.sub Initial Calibration Time(s): 21:49 19:33  
 Method used: /chem1/SVOA/GC\_58.i/170614.b/b8082-n2.m

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
Aroclor-1016	11506630.029	10709246.257	0.01	7	15	Averaged
Aroclor 1016 (1)	1122906.647	1069213.436	0.01	5	15	Averaged
Aroclor 1016 (2)	2104568.955	1953371.190	0.01	7	15	Averaged
Aroclor 1016 (3)	4720545.338	4428365.697	0.01	6	15	Averaged
Aroclor 1016 (4)	1985806.908	1823618.426	0.01	8	15	Averaged
Aroclor 1016 (5)	1572802.181	1434677.508	0.01	9	15	Averaged
Aroclor 1260 (4)	810360.902	773842.696	0.01	5	15	Averaged
Aroclor-1260	11537050.448	10513703.698	0.01	9	15	Averaged
Aroclor 1260 (5)	1850172.206	1757017.892	0.01	5	15	Averaged
Aroclor 1260 (1)	3449997.793	3095910.730	0.01	10	15	Averaged
Aroclor 1260 (2)	2560223.179	2364856.786	0.01	8	15	Averaged
Aroclor 1260 (3)	2866296.368	2522075.594	0.01	12	15	Averaged
Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
2,4,5,6-Tetrachloro-m-xylene	63384724.500	62409689.301	0.01	2	15	Averaged
Decachlorobiphenyl	62437904.300	61954020.833	0.01	1	15	Averaged





Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061425.d  
 Report Date: 14-Jun-2017 17:58

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170614.b/b17061425.d  
 Lab Smp Id:  
 Inj Date : 14-JUN-2017 17:27  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB CCV 500 PPB P051717I  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170614.b/b8082-n2.m  
 Meth Date : 14-Jun-2017 17:58 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 25 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.740	4.739	0.001	6240968930	100.000	98.5
M 2 Aroclor-1016				5354623128	500.000	465
3 Aroclor 1016 (1)	5.451	5.450	0.001	534606718	500.000	476
4 Aroclor 1016 (2)	5.995	5.995	0.000	976685595	500.000	464
5 Aroclor 1016 (3)	6.578	6.579	-0.001	2214182848	500.000	469
6 Aroclor 1016 (4)	6.748	6.749	-0.001	911809213	500.000	459
7 Aroclor 1016 (5)	6.875	6.876	-0.001	717338754	500.000	456
M 8 Aroclor-1260				5256851849	500.000	456
9 Aroclor 1260 (1)	9.051	9.056	-0.005	1547955365	500.000	449
10 Aroclor 1260 (2)	9.563	9.569	-0.006	1182428393	500.000	462
11 Aroclor 1260 (3)	9.900	9.907	-0.007	1261037797	500.000	440
12 Aroclor 1260 (4)	11.071	11.080	-0.009	386921348	500.000	477
13 Aroclor 1260 (5)	11.252	11.262	-0.010	878508946	500.000	475
T 56 Decachlorobiphenyl	11.910	11.918	-0.008	6195402083	100.000	99.2



Data File: /chem1/SVDA/GC\_58.i/170614.b/17061425.d

Date : 14-JUN-2017 17:27

Client ID:

Sample Info: PCB CCV 500 PPB P0517171

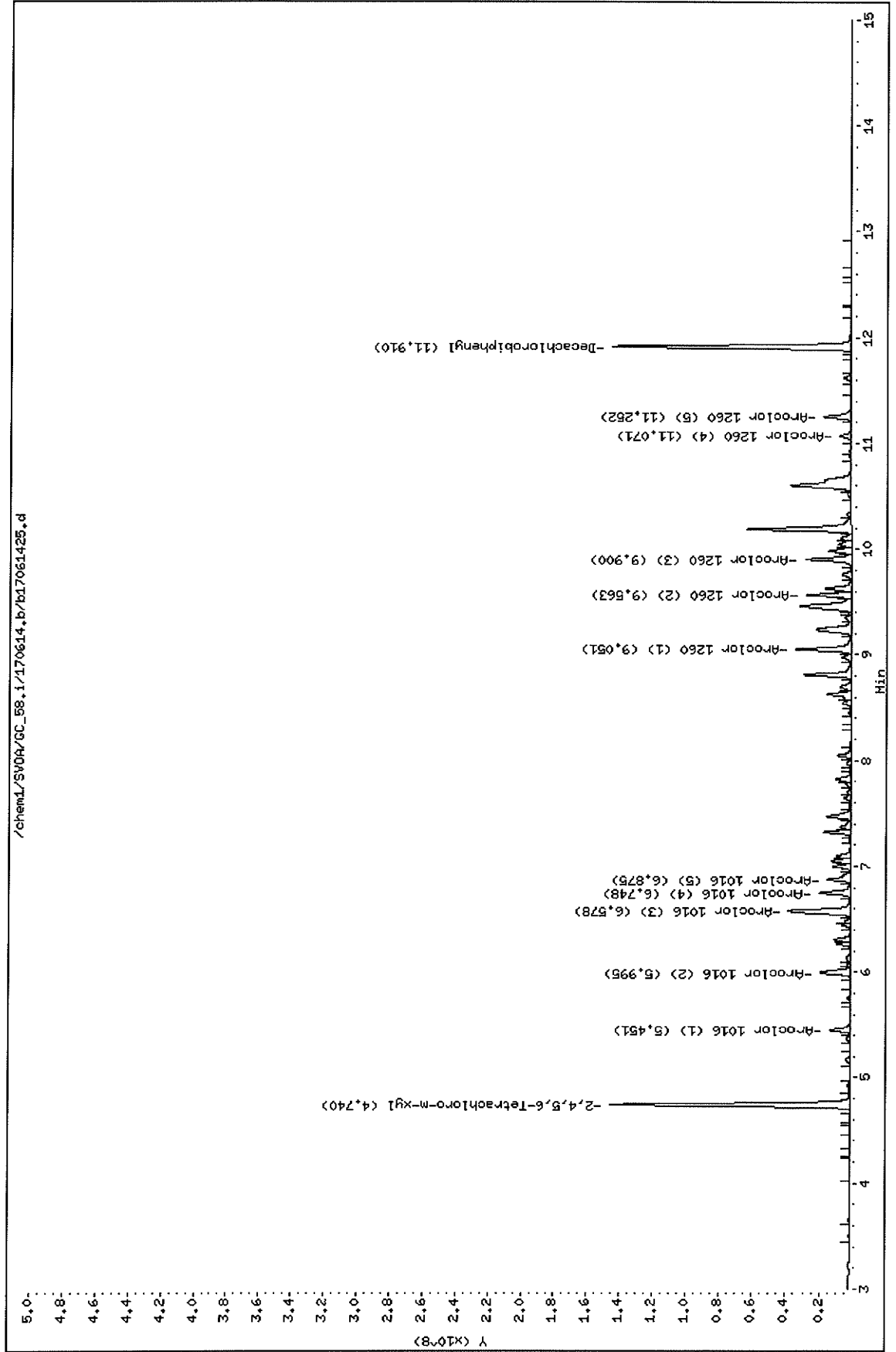
Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

/chem1/SVDA/GC\_58.i/170614.b/17061425.d

Column phase:



# CONTINUING CALIBRATION VERIFICATION QUALITY CONTROL SHEET FOR METHOD: EPA 8082

CCV WORK ORDER: 099-12-532-9744-5154  
BATCH ID:  
INITIAL: 170523I001  
CCV: 170614A059  
INSTRUMENT: GC 58  
DATA FILE: /chem1/SVOA/GC\_58/170614/b1706144417061444

ANALYZED BY: 944  
D/T ANALYZED:  
INITIAL: 2017-05-23 16:52  
CCV: 2017-06-14 23:08  
REVIEWED BY: *7*  
D/T REVIEWED:

<u>COMPOUND NAME</u>	<u>TYPE</u>	<u>CALIB MODEL</u>	<u>MIN RF</u>	<u>AVG RF</u>	<u>CCV RF</u>	<u>AMOUNT</u>	<u>CCV CONC</u>	<u>CCV %D</u>	<u>CCV %D CL</u>	<u>STATUS</u>
Aroclor-1016	C	Avg Resp	0.00	11506630.029	10973267.358			5	0-15	PASS
Aroclor-1260	C	Avg Resp	0.00	11537050.448	11016654.650			5	0-15	PASS

MIN RF: Method Specified Minimum Response Factor



Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061444.d  
 Report Date: 06/15/2017 09:53

Eurofins CalScience  
 Calibration Verification Report

Instrument ID: GC\_58.i Injection Date and Time: 14-JUN-2017 23:08  
 Sample Name: PCB CCV 500 PPB P051717I Initial Calibration Date(s): 04-OCT-2016 23-MAY-2017  
 Sublist used: p1016\_1260.sub Initial Calibration Time(s): 21:49 19:33  
 Method used: /chem1/SVOA/GC\_58.i/170614.b/b8082-n2.m

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
Aroclor-1016	11506630.029	10973267.358	0.01	5	15	Averaged
Aroclor 1016 (1)	1122906.647	1094480.732	0.01	3	15	Averaged
Aroclor 1016 (2)	2104568.955	1997901.396	0.01	5	15	Averaged
Aroclor 1016 (3)	4720545.338	4529826.642	0.01	4	15	Averaged
Aroclor 1016 (4)	1985806.908	1872017.012	0.01	6	15	Averaged
Aroclor 1016 (5)	1572802.181	1479041.576	0.01	6	15	Averaged
Aroclor 1260 (4)	810360.902	821215.352	0.01	-1	15	Averaged
Aroclor-1260	11537050.448	11016654.650	0.01	5	15	Averaged
Aroclor 1260 (5)	1850172.206	1905326.372	0.01	-3	15	Averaged
Aroclor 1260 (1)	3449997.793	3209901.740	0.01	7	15	Averaged
Aroclor 1260 (2)	2560223.179	2476922.380	0.01	3	15	Averaged
Aroclor 1260 (3)	2866296.368	2603288.806	0.01	9	15	Averaged
Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
2,4,5,6-Tetrachloro-m-xylene	63384724.500	64267050.366	0.01	-1	15	Averaged
Decachlorobiphenyl	62437904.300	67707257.455	0.01	-8	15	Averaged

Data File: /chem1/SVOA/GC\_58.i/170614.b/b17061444.d  
 Report Date: 15-Jun-2017 09:52

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170614.b/b17061444.d  
 Lab Smp Id:  
 Inj Date : 14-JUN-2017 23:08  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB CCV 500 PPB P051717I  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170614.b/b8082-n2.m  
 Meth Date : 15-Jun-2017 09:52 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 44 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.742	4.739	0.003	6426705037	100.000	101
M 2 Aroclor-1016				5486633679	500.000	477
3 Aroclor 1016 (1)	5.453	5.451	0.002	547240366	500.000	487
4 Aroclor 1016 (2)	5.997	5.996	0.001	998950698	500.000	475
5 Aroclor 1016 (3)	6.580	6.579	0.001	2264913321	500.000	480
6 Aroclor 1016 (4)	6.750	6.750	0.000	936008506	500.000	471
7 Aroclor 1016 (5)	6.877	6.876	0.001	739520788	500.000	470
M 8 Aroclor-1260				5508327325	500.000	477
9 Aroclor 1260 (1)	9.052	9.056	-0.004	1604950870	500.000	465
10 Aroclor 1260 (2)	9.564	9.569	-0.005	1238461190	500.000	484
11 Aroclor 1260 (3)	9.901	9.907	-0.006	1301644403	500.000	454
12 Aroclor 1260 (4)	11.072	11.080	-0.008	410607676	500.000	507
13 Aroclor 1260 (5)	11.253	11.262	-0.009	952663186	500.000	515
T 56 Decachlorobiphenyl	11.911	11.919	-0.008	6770725746	100.000	108

Data File: /chem1/SV0A/GC\_58.i/170614.b/b17061444.d

Date : 14-JUN-2017 23:08

Client ID:

Sample Info: PCB CCV 500 PPB P0517171

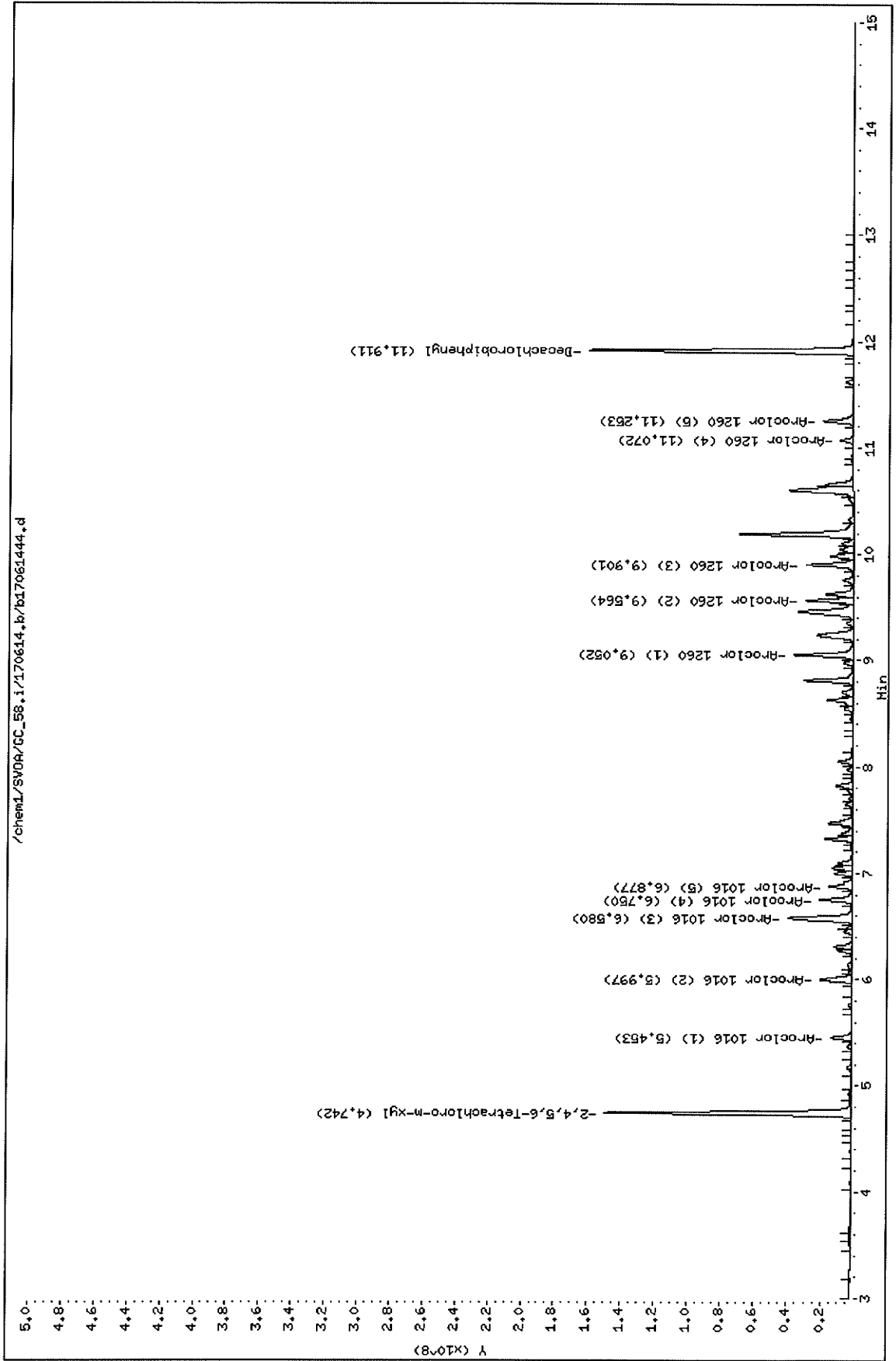
Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:

/chem1/SV0A/GC\_58.i/170614.b/b17061444.d



# CONTINUING CALIBRATION VERIFICATION QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**CCV WORK ORDER:** 099-12-532-9748-5154

**BATCH ID:**

1705231001  
170616A006  
GC 58

**ANALYZED BY:** 944

**D/T ANALYZED:**

2017-05-23 16:52  
2017-06-16 06:19

**INITIAL:**

**CCV:**

**REVIEWED BY:**

**D/T REVIEWED:**

3

**DATA FILE:** /chem1/SVOA/GC\_58/170616/b1706160117061601

<u>COMPOUND NAME</u>	<u>TYPE</u>	<u>CALIB MODEL</u>	<u>MIN RF</u>	<u>AVG RF</u>	<u>CCV RF</u>	<u>AMOUNT</u>	<u>CCV CONC</u>	<u>CCV %D</u>	<u>CCV %D CL</u>	<u>STATUS</u>
Aroclor-1016	C	Avg Resp	0.00	11506630.029	10374902.112			10	0-15	PASS
Aroclor-1260	C	Avg Resp	0.00	11537050.448	11258141.960			2	0-15	PASS

MIN RF: Method Specified Minimum Response Factor

Data File: /chem1/SVOA/GC\_58.i/170616.b/b17061601.d  
 Report Date: 06/16/2017 09:57

Eurofins CalScience  
 Calibration Verification Report

Instrument ID: GC\_58.i                      Injection Date and Time: 16-JUN-2017 06:19  
 Sample Name: PCB CCV 500 PPB P051717I      Initial Calibration Date(s): 04-OCT-2016 23-MAY-2017  
 Sublist used: p1016\_1260.sub              Initial Calibration Time(s): 21:49 19:33  
 Method used: /chem1/SVOA/GC\_58.i/170616.b/b8082-n2.m

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
Aroclor-1016	11506630.029	10374902.113	0.01	10	15	Averaged
Aroclor 1016 (1)	1122906.647	1098611.262	0.01	2	15	Averaged
Aroclor 1016 (2)	2104568.955	2026553.038	0.01	4	15	Averaged
Aroclor 1016 (3)	4720545.338	4312860.185	0.01	9	15	Averaged
Aroclor 1016 (4)	1985806.908	1886356.844	0.01	5	15	Averaged
Aroclor 1016 (5)	1572802.181	1050520.784	0.01	33	15	Averaged
Aroclor 1260 (4)	810360.902	769913.114	0.01	5	15	Averaged
Aroclor-1260	11537050.448	11258141.960	0.01	2	15	Averaged
Aroclor 1260 (5)	1850172.206	1740963.080	0.01	6	15	Averaged
Aroclor 1260 (1)	3449997.793	3309462.924	0.01	4	15	Averaged
Aroclor 1260 (2)	2560223.179	2654280.004	0.01	-4	15	Averaged
Aroclor 1260 (3)	2866296.368	2783522.838	0.01	3	15	Averaged
=====						
Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
2,4,5,6-Tetrachloro-m-xylene	63384724.500	65125071.554	0.01	-3	15	Averaged
Decachlorobiphenyl	62437904.300	63247759.952	0.01	-1	15	Averaged

<-Failed



Data File: /chem1/SVOA/GC\_58.i/170616.b/b17061601.d  
 Report Date: 16-Jun-2017 09:57

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170616.b/b17061601.d  
 Lab Smp Id:  
 Inj Date : 16-JUN-2017 06:19  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB CCV 500 PPB P051717I  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170616.b/b8082-n2.m  
 Meth Date : 16-Jun-2017 09:57 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 1 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RT	RESPONSE	AMOUNTS	
						CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.746	4.740	0.006	6512507155	100.000	103	
M 2 Aroclor-1016				5187451056	500.000	451	
3 Aroclor 1016 (1)	5.457	5.452	0.005	549305631	500.000	489	
4 Aroclor 1016 (2)	6.002	5.997	0.005	1013276519	500.000	481	
5 Aroclor 1016 (3)	6.584	6.580	0.004	2156430092	500.000	457	
6 Aroclor 1016 (4)	6.754	6.750	0.004	943178422	500.000	475	
7 Aroclor 1016 (5)	6.881	6.877	0.004	525260392	500.000	334	
M 8 Aroclor-1260				5629070980	500.000	488	
9 Aroclor 1260 (1)	9.056	9.057	-0.001	1654731462	500.000	480	
10 Aroclor 1260 (2)	9.569	9.570	-0.001	1327140002	500.000	518	
11 Aroclor 1260 (3)	9.905	9.908	-0.003	1391761419	500.000	486	
12 Aroclor 1260 (4)	11.075	11.080	-0.005	384956557	500.000	475	
13 Aroclor 1260 (5)	11.255	11.263	-0.008	870481540	500.000	470	
T 56 Decachlorobiphenyl	11.915	11.919	-0.004	6324775995	100.000	101	

Data File: /chem1/SV00A/GC\_58.i/170616.b/b17061601.d

Date : 16-JUN-2017 06:19

Client ID:

Sample Info: PCB CCV 500 PPB P0517471

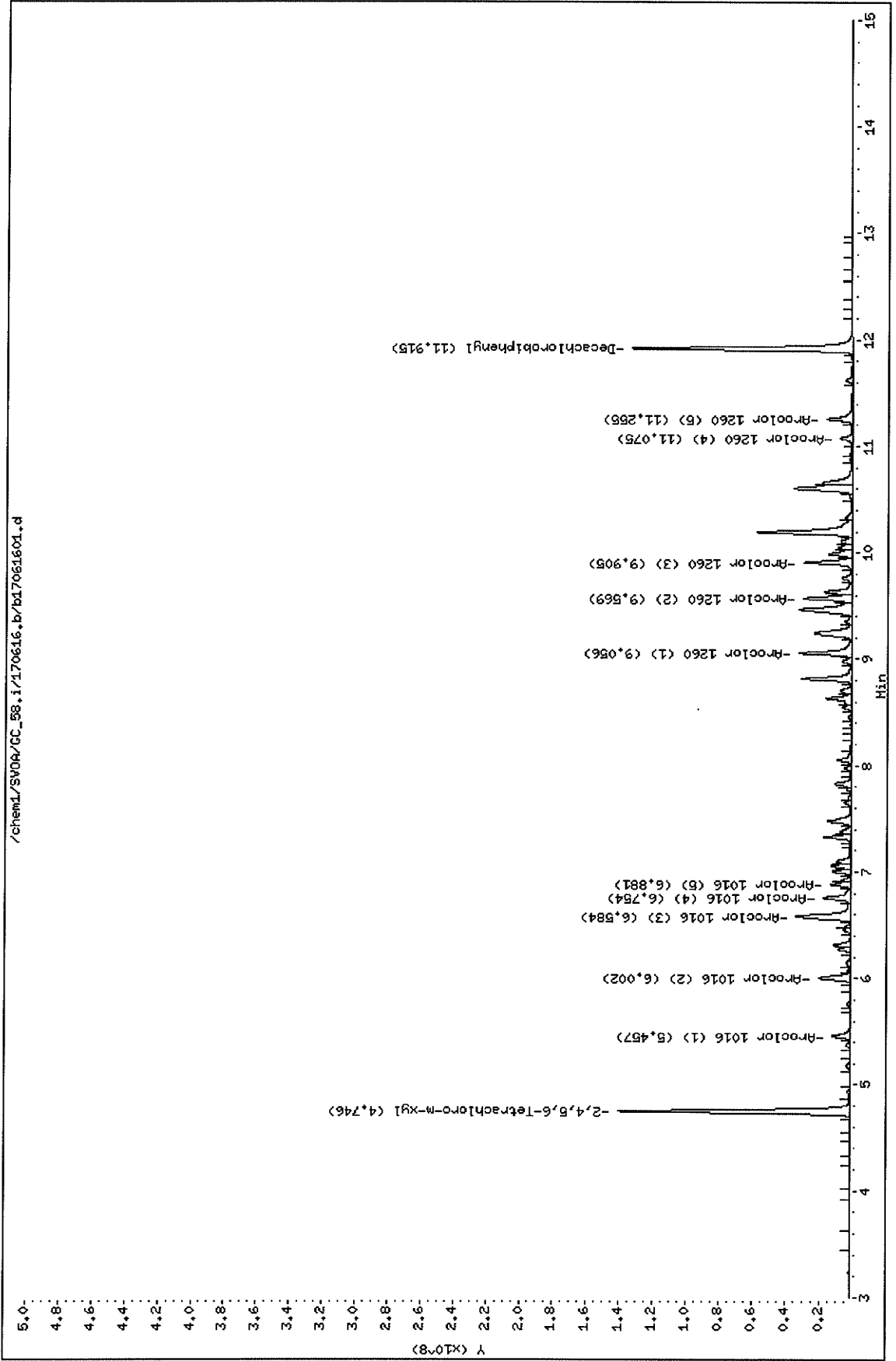
Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:

/chem1/SV00A/GC\_58.i/170616.b/b17061601.d



# CONTINUING CALIBRATION VERIFICATION QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**CCV WORK ORDER:** 099-12-532-9750-5154

**BATCH ID:**

1705231001

170616A007

GC 58

2017-05-23 16:52

2017-06-16 13:53

→

**ANALYZED BY:** 944

**D/T ANALYZED:**

**INITIAL:**

**CCV:**

**REVIEWED BY:**

**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170616/b/1706162217061622

<u>COMPOUND NAME</u>	<u>TYPE</u>	<u>CALIB MODEL</u>	<u>MIN RF</u>	<u>AVG RF</u>	<u>CCV RF</u>	<u>AMOUNT</u>	<u>CCV CONC</u>	<u>CCV %D</u>	<u>CCV %D CL</u>	<u>STATUS</u>
Aroclor-1016	C	Avg Resp	0.00	11506630.029	10544396.368			8	0-15	PASS
Aroclor-1260	C	Avg Resp	0.00	11537050.448	10351428.888			10	0-15	PASS

MIN RF: Method Specified Minimum Response Factor



Data File: /chem1/SVOA/GC\_58.i/170616.b/b17061622.d  
 Report Date: 16-Jun-2017 14:18

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Eurofins Calscience

EPA 8082/A PCB analysis  
 Data file : /chem1/SVOA/GC\_58.i/170616.b/b17061622.d  
 Lab Smp Id:  
 Inj Date : 16-JUN-2017 13:53  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB CCV 500 PPB P051717I  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170616.b/b8082-n2.m  
 Meth Date : 16-Jun-2017 14:18 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 21 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.743	4.740	0.003	6155836324	100.000	97.1
M 2 Aroclor-1016				5272198184	500.000	458
3 Aroclor 1016 (1)	5.456	5.451	0.005	519655288	500.000	463
4 Aroclor 1016 (2)	6.001	5.997	0.004	1014957091	500.000	482
5 Aroclor 1016 (3)	6.585	6.580	0.005	2245168393	500.000	476
6 Aroclor 1016 (4)	6.755	6.751	0.004	916196679	500.000	461
7 Aroclor 1016 (5)	6.882	6.877	0.005	576220733	500.000	366
M 8 Aroclor-1260				5175714444	500.000	449
9 Aroclor 1260 (1)	9.058	9.057	0.001	1530132827	500.000	444
10 Aroclor 1260 (2)	9.571	9.570	0.001	1166491088	500.000	456
11 Aroclor 1260 (3)	9.907	9.908	-0.001	1290653272	500.000	450
12 Aroclor 1260 (4)	11.078	11.081	-0.003	352905988	500.000	435
13 Aroclor 1260 (5)	11.258	11.264	-0.006	835531269	500.000	452
T 56 Decachlorobiphenyl	11.919	11.920	-0.001	6022136992	100.000	96.4

Data File: /chem1/SV0A/CC\_58.i/170616.k/b17061622.d

Date : 16-JUN-2017 13:53

Client ID:

Sample Info: PCB CCV 500 PPB P0517171

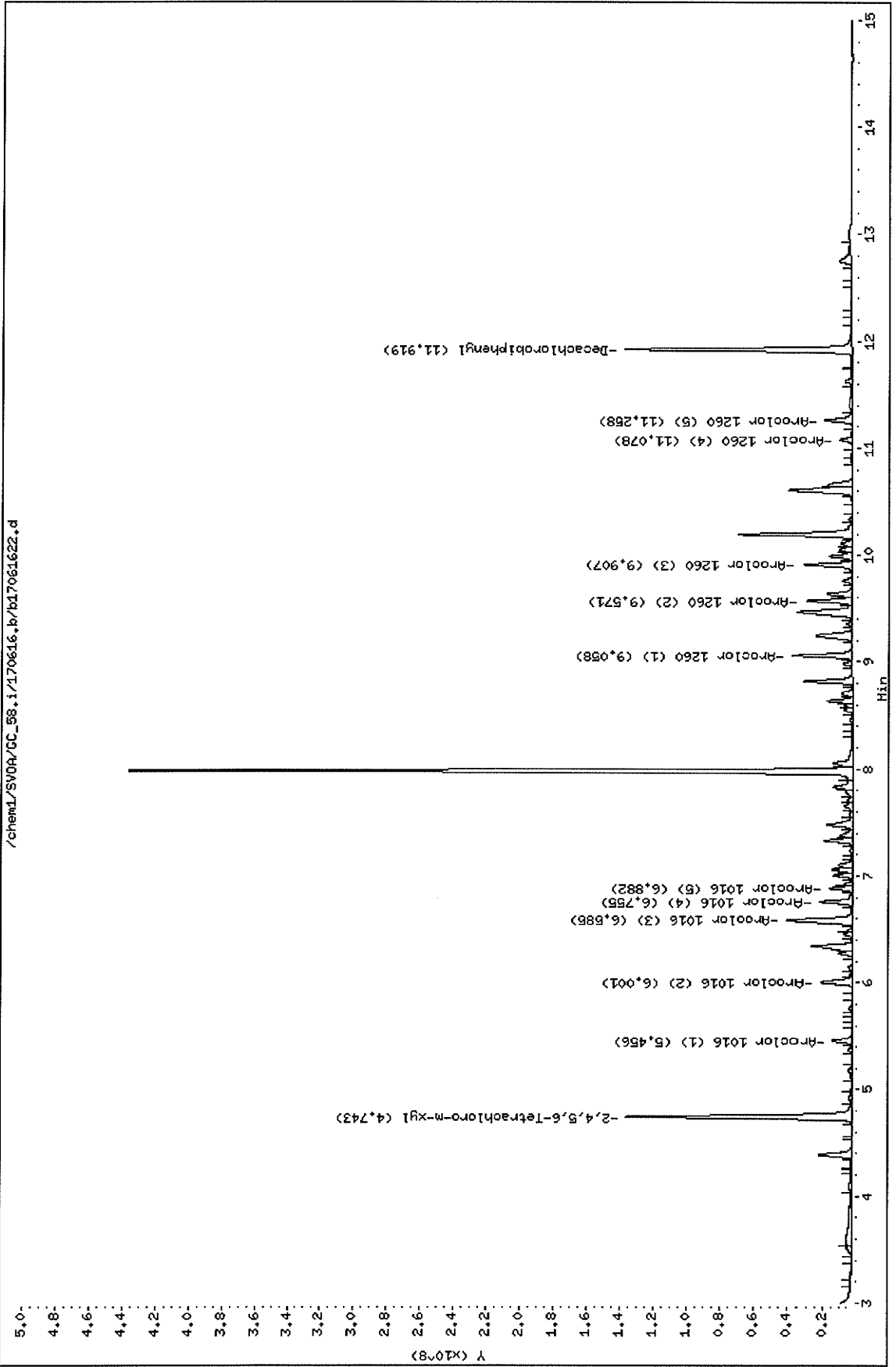
Instrument: CC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:

/chem1/SV0A/CC\_58.i/170616.k/b17061622.d



# EPA METHOD 8082 PCB

## Run Logs

Sequence: C:\CHEM32\1\SEQUENCE\170523.S

Table: Front DataPath: W:\GC\_58\DATA\2017\170523\

Line	Vial	File	Name	Method	InjVolume	Acquired
1	100	17052300	IB S007-62-06	8082-N2		23-May-17, 11:03:20
2	1	17052301	PCB ICAL-1 100 PPB P051717F	8082-N2		23-May-17, 11:21:15
3	2	17052302	PCB ICAL-2 250 PPB P051717E	8082-N2		23-May-17, 11:39:09
4	3	17052303	PCB ICAL-3 500 PPB P051717D	8082-N2		23-May-17, 11:57:04
5	4	17052304	PCB ICAL-4 750 PPB P051717C	8082-N2		23-May-17, 12:15:07
6	5	17052305	PCB ICAL-5 2000 PPB P051717B	8082-N2		23-May-17, 12:33:01
7	6	17052306	PCB ICV 500 PPB P051717H	8082-N2	- front >15% RR Ical	23-May-17, 13:50:06
8	7	17052307	PCB 1221/54 500 PPB P051717J	8082-N2		23-May-17, 14:08:02
9	8	17052308	PCB 1232/62 500 PPB P051717K	8082-N2		23-May-17, 14:25:54
10	9	17052309	PCB 1248/68 500 PPB P051717L	8082-N2		23-May-17, 14:43:51
11	10	17052310	PCB 1242 500 PPB P051717M	8082-N2		23-May-17, 15:01:53
12	11	17052311	P052217A 200 PPB (3540C)-SPIKE	8082-N2		23-May-17, 15:19:50
13	12	17052312	PCB CCV 500 PPB P P051717I	8082-N2		23-May-17, 15:37:42
14	21	17052321	PCB ICAL-1 100 PPB P051717F	8082-N2		23-May-17, 16:52:05
15	22	17052322	PCB ICAL-2 250 PPB P051717E	8082-N2		23-May-17, 17:09:57
16	23	17052323	PCB ICAL-3 500 PPB P051717D	8082-N2		23-May-17, 17:27:51
17	24	17052324	PCB ICAL-4 750 PPB P051717C	8082-N2		23-May-17, 17:45:52
18	25	17052325	PCB ICAL-5 2000 PPB P051717B	8082-N2		23-May-17, 18:03:47
19	26	17052326	PCB ICV 500 PPB P051717H	8082-N2		23-May-17, 18:21:40
20	27	17052327	PCB 1221/54 500 PPB P051717J	8082-N2		23-May-17, 18:39:35
21	28	17052328	PCB 1232/62 500 PPB P051717K	8082-N2		23-May-17, 18:57:36
22	29	17052329	PCB 1248/68 500 PPB P051717L	8082-N2		23-May-17, 19:15:30
23	30	17052330	PCB 1242 500 PPB P051717M	8082-N2		23-May-17, 19:33:25


  
Return to Contents



Line	Vial	File	Name	Method	InjVolume	Acquired
1	100	17061400	S007-62-06	8082-N2		14-Jun-17, 09:07:42
2	1	17061401	PCB CCV 500 PPB P051717I	8082-N2		14-Jun-17, 09:25:38
3	2	17061402	IB	8082-N2		14-Jun-17, 09:43:33
4	3	17061403	MB 170613L11	8082-N2		14-Jun-17, 10:52:05
5	4	17061404	LCS 170613L11	8082-N2		14-Jun-17, 11:10:00
6	5	17061405	MS 17-06-0926-2 170613S11	8082-N2		14-Jun-17, 11:27:59
7	6	17061406	MSD 17-06-0926-2 170613S11	8082-N2		14-Jun-17, 11:45:55
8	7	17061407	17-06-0926-1	8082-N2		14-Jun-17, 12:03:58
9	8	17061408	17-06-0926-2	8082-N2		14-Jun-17, 12:21:53
10	9	17061409	17-06-0926-3	8082-N2		14-Jun-17, 12:39:50
11	10	17061410	17-06-0926-4	8082-N2		14-Jun-17, 12:57:48
12	11	17061411	PCB CCV 500 PPB P051717I	8082-N2		14-Jun-17, 13:15:52
13	12	17061412	17-06-0907-1	8082-N2		14-Jun-17, 13:33:47
14	13	17061413	17-06-0907-2	8082-N2		14-Jun-17, 13:51:44
15	14	17061414	17-06-0910-1	8082-N2		14-Jun-17, 14:09:41
16	15	17061415	17-06-0910-2	8082-N2		14-Jun-17, 14:27:43
17	16	17061416	17-06-0909-1	8082-N2		14-Jun-17, 14:45:39
18	17	17061417	17-06-0909-2	8082-N2		14-Jun-17, 15:03:36
19	18	17061418	17-06-0909-3	8082-N2		14-Jun-17, 15:21:33
20	19	17061419	17-06-0909-4	8082-N2		14-Jun-17, 15:39:36
21	20	17061420	17-06-0909-5	8082-N2		14-Jun-17, 15:57:32
22	21	17061421	17-06-0909-6	8082-N2		14-Jun-17, 16:15:29
23	22	17061422	17-06-0909-7	8082-N2		14-Jun-17, 16:33:26
24	23	17061423	17-06-0907-1 50X	8082-N2		14-Jun-17, 16:51:29
25	24	17061424	17-06-0907-2 5X	8082-N2		14-Jun-17, 17:09:26
26	25	17061425	PCB CCV 500 PPB P051717I	8082-N2	A034	14-Jun-17, 17:27:22
27	26	17061426	MB 170613L13	8082-N2		14-Jun-17, 17:45:19
28	27	17061427	17-06-0742-1	8082-N2		14-Jun-17, 18:03:22
29	28	17061428	17-06-0746-1	8082-N2		14-Jun-17, 18:21:16
30	29	17061429	17-06-0746-2	8082-N2		14-Jun-17, 18:39:11
31	30	17061430	17-06-0746-3	8082-N2		14-Jun-17, 18:57:07
32	31	17061431	17-06-0746-4	8082-N2		14-Jun-17, 19:15:10
33	32	17061432	17-06-0746-5	8082-N2		14-Jun-17, 19:33:05
34	33	17061433	17-06-0746-6	8082-N2		14-Jun-17, 19:51:01
35	34	17061434	17-06-0746-7 → RB + PP to confirm 1254	8082-N2		14-Jun-17, 20:08:57
36	35	17061435	17-06-0746-8	8082-N2		14-Jun-17, 20:26:58
37	36	17061436	17-06-0746-9	8082-N2		14-Jun-17, 20:44:54
38	37	17061437	17-06-0746-10	8082-N2		14-Jun-17, 21:02:50
39	38	17061438	17-06-0746-11	8082-N2		14-Jun-17, 21:21:03
40	39	17061439	17-06-0746-12	8082-N2		14-Jun-17, 21:39:04
41	40	17061440	17-06-0746-13	8082-N2		14-Jun-17, 21:56:58
42	41	17061441	17-06-0746-14	8082-N2		14-Jun-17, 22:14:56
43	42	17061442	LCS 170613L13	8082-N2		14-Jun-17, 22:32:49
44	43	17061443	LCS 170613L13	8082-N2		14-Jun-17, 22:50:50
45	44	17061444	PCB CCV 500 PPB P051717I	8082-N2	A034	14-Jun-17, 23:08:44
46	45	17061445	17-06-1003-1	8082-N2		14-Jun-17, 23:26:40
47	46	17061446	17-06-1003-2	8082-N2		14-Jun-17, 23:44:37
48	47	17061447	17-06-1003-3	8082-N2		15-Jun-17, 00:02:37
49	48	17061448	17-06-1003-4	8082-N2		15-Jun-17, 00:20:30
50	49	17061449	MS 17-06-1003-2 170613S11A	8082-N2		15-Jun-17, 00:38:26
51	50	17061450	MSD 17-06-1003-2 170613S11A	8082-N2		15-Jun-17, 00:56:23
52	44	17061451	PCB CCV 500 PPB P051717I	8082-N2		15-Jun-17, 01:14:23

Line	Vial	File	Name	Method	InjVolume	Acquired
1	100	17061600	S007-62-06	8082-N2		16-Jun-17, 06:02:00
2	1	17061601	PCB CCV 500 PPB P051717I	8082-N2	<i>Ac06</i>	16-Jun-17, 06:19:57
3	2	17061602	17-06-0746-7 RB	8082-N2		16-Jun-17, 06:37:53
4	3	17061603	MB 170614L09	8082-N2		16-Jun-17, 06:55:49
5	4	17061604	LCS 170614L09	8082-N2		16-Jun-17, 07:13:52
6	5	17061605	17-06-0796-1	8082-N2		16-Jun-17, 07:31:50
7	6	17061606	17-06-0796-2	8082-N2		16-Jun-17, 07:49:46
8	7	17061607	17-06-0796-3	8082-N2		16-Jun-17, 08:07:43
9	8	17061608	17-06-0796-4	8082-N2		16-Jun-17, 08:25:43
10	9	17061609	MS 17-06-0796-2 170614S09	8082-N2		16-Jun-17, 08:43:38
11	10	17061610	MSD 17-06-0796-2 170614S09	8082-N2		16-Jun-17, 09:01:36
12	11	17061611	MB 170615L02	8082-N2		16-Jun-17, 09:35:02
13	12	17061612	LCS 170615L02	8082-N2		16-Jun-17, 09:52:58
14	13	17061613	LCSD 170615L02	8082-N2		16-Jun-17, 10:10:53
15	14	17061614	MS 17-06-1117-2 170615S02	8082-N2		16-Jun-17, 10:46:34
16	15	17061615	MSD 17-06-1117-2 170615S02	8082-N2		16-Jun-17, 11:04:31
17	16	17061616	17-06-1117-2	8082-N2		16-Jun-17, 11:22:27
18	17	17061617	17-06-1117-4	8082-N2		16-Jun-17, 11:40:24
19	18	17061618	17-06-1117-5	8082-N2		16-Jun-17, 11:58:25
20	19	17061619	17-06-1117-6	8082-N2		16-Jun-17, 12:16:22
21	20	17061620	17-06-1113-1	8082-N2		16-Jun-17, 12:34:18
22	21	17061622	PCB CCV 500 PPB P051717I	8082-N2	<i>Ac07</i>	16-Jun-17, 13:53:43
23	22	17061623	MB 170615L11	8082-N2		
24	23	17061624	LCS 170615L11	8082-N2		
25	24	17061621	17-06-1113-1 Hg	8082-N2		
26	25	17061625	17-06-1180-1	8082-N2		
27	26	17061626	17-06-1180-2	8082-N2		
28	27	17061627	17-06-1180-3	8082-N2		
29	28	17061628	17-06-1180-4	8082-N2		
30	29	17061629	17-06-1180-5	8082-N2		
31	30	17061630	PCB CCV 500 PPB P051717I	8082-N2		
32	31	17061631	17-06-1180-6	8082-N2		
33	32	17061632	17-06-1180-7	8082-N2		
34	33	17061633	17-06-1180-8	8082-N2		
35	34	17061634	17-06-1180-9	8082-N2		
36	35	17061635	17-06-1180-10	8082-N2		
37	36	17061636	17-06-1180-11	8082-N2		
38	37	17061637	17-06-1180-12	8082-N2		
39	38	17061638	17-06-1180-13	8082-N2		
40	39	17061639	MS 17-06-1180-6 170615S11	8082-N2		
41	40	17061640	MSD 17-06-1180-6 170615S11	8082-N2		
42	30	17061641	PCB CCV 500 PPB P051717I	8082-N2		

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# EPA METHOD 8082 PCB

## Preparation Logs

Analysis Method (EPA Method):  608  8081  8082  8141  8310  TO-13  TO-4  
 8270 ( Soil  Soil SIM SUPER  PAH  SIM PAH  SIM Pest  SIM PCB cong.  SIM FL)

Extraction Method (EPA Method):  3510  3520  3540  3541  3545  3550  3580

Analyst ID#: Measuring Sample: 1070 Start Extraction: 06/10/17 Blow Down: 115 Clean Up: 1130

Matrix:  Soil  Aqueous  Oil  Wipe  Filter  Tissue  Air

Balance ID#: Filter ID#: 807-17-17 ASE ID#: 07 Soxtherm ID#: Orbit Shaker ID#: Sonicator ID#:

Ext. Start Date/Time: 06/13/17 - 16:00 Ext. End Date/Time: 06/13/17 - 22:00

Sand or Wipe ID#: E08-29-10 Drying Agent:  Na<sub>2</sub>SO<sub>4</sub>  Diatomaceous Earth  
 Drying Agent(s) ID#: 807-57-14 / 807-22-03

Surrogate Std ID# & Volume Added (mL): S032717A - 0.5 mL

Spike Std ID# & Volume Added (mL): S020317A - 0.5 mL Spike Added to:  LCS  LCSD  MS  MSD

Extraction Solvent:  MeCl<sub>2</sub>  1:1 Hexane-Acetone  1:1 MeCl<sub>2</sub>-Acetone  9:1 Hexane-Diethyl-ether  Acetonitrile

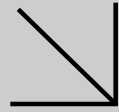
Extraction Solvent ID#: 807-44-07 / 807-44-08 Exchange Solvent ( Hexane  Acetonitrile) ID#: 807-44-07

Clean Up Start Date & Time: 06/14/17 1400 Clean Up End Date & Time: 06/14/17 1430

Clean Up:  3620 Florisil  3630 SGC  3660 Sulfur  3665 Acid  Other Cartridge ID#:

Clean Up Reagent ID#: 807-82-12 Cartridge Conditioning Column Pre-Elution Reagent ID#:

Cell ID#:	Sample W (g) / V (mL)		Clean Up Performed	Comments
	Initial	Final		
MB	EACH	10	<input checked="" type="checkbox"/>	
LCS	EACH	10	<input checked="" type="checkbox"/>	
LCSD	EACH	10	<input checked="" type="checkbox"/>	
MS N/A	---	---	<input type="checkbox"/>	
MSD N/A	---	---	<input type="checkbox"/>	
17-06-0742-1A	EACH	10	<input checked="" type="checkbox"/>	
17-06-0746-1A	EACH	10	<input checked="" type="checkbox"/>	
-2A	EACH	10	<input checked="" type="checkbox"/>	
-3A	EACH	10	<input checked="" type="checkbox"/>	
-4A	EACH	10	<input checked="" type="checkbox"/>	
-5A	EACH	10	<input checked="" type="checkbox"/>	
-6A	EACH	10	<input checked="" type="checkbox"/>	
-7A	EACH	10	<input checked="" type="checkbox"/>	
-8A	EACH	10	<input checked="" type="checkbox"/>	
-9A	EACH	10	<input checked="" type="checkbox"/>	
-10A	EACH	10	<input checked="" type="checkbox"/>	
-11A	EACH	10	<input checked="" type="checkbox"/>	
-12A	EACH	10	<input checked="" type="checkbox"/>	
-13A	EACH	10	<input checked="" type="checkbox"/>	
-14A	EACH	10	<input checked="" type="checkbox"/>	
			<input type="checkbox"/>	
			<input type="checkbox"/>	
			<input type="checkbox"/>	
			<input type="checkbox"/>	
			<input type="checkbox"/>	



**WORK ORDER NUMBER: 17-06-0746**

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

**Analytical Report For**

**Client:** EA Engineering

**Client Project Name:** Hazmat Survey - GPA 93156.01

**Attention:** Brenda Nuding  
615 Piikoi Street  
Suite 515  
Honolulu, HI 96814-3116

Approved for release on 06/19/2017 by:  
Carla Hollowell  
Project Manager

ResultLink ▶

Email your PM ▶

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



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 Work Order Number: 17-06-0746

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## Work Order Narrative

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Work Order: 17-06-0746

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### **Condition Upon Receipt:**

Samples were received under Chain-of-Custody (COC) on 06/09/17. They were assigned to Work Order 17-06-0746.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

### **Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

### **Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

### **Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

### **Additional Comments:**

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



## Sample Summary

Client: EA Engineering	Work Order: 17-06-0746
615 Piikoi Street, Suite 515	Project Name: Hazmat Survey - GPA 93156.01
Honolulu, HI 96814-3116	PO Number: 16405
	Date/Time Received: 06/09/17 10:30
	Number of Containers: 14

Attn: Brenda Nuding

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
TTP-W001	17-06-0746-1	06/06/17 10:10	1	Wipe
TTP-W002	17-06-0746-2	06/06/17 10:20	1	Wipe
TTP-W003	17-06-0746-3	06/06/17 10:30	1	Wipe
TTP-W004	17-06-0746-4	06/06/17 10:40	1	Wipe
TTP-W005	17-06-0746-5	06/06/17 10:50	1	Wipe
TTP-W006	17-06-0746-6	06/06/17 10:58	1	Wipe
TTP-W007	17-06-0746-7	06/06/17 11:00	1	Wipe
TTP-W008	17-06-0746-8	06/06/17 11:45	1	Wipe
TTP-W009	17-06-0746-9	06/06/17 11:50	1	Wipe
TTP-W010	17-06-0746-10	06/06/17 11:52	1	Wipe
TTP-W011	17-06-0746-11	06/06/17 11:55	1	Wipe
TTP-W012	17-06-0746-12	06/06/17 11:58	1	Wipe
TTP-W013	17-06-0746-13	06/06/17 12:00	1	Wipe
TTP-W014	17-06-0746-14	06/06/17 12:10	1	Wipe

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## Analytical Report

EA Engineering  
615 Piikoi Street, Suite 515  
Honolulu, HI 96814-3116

Date Received: 06/09/17  
Work Order: 17-06-0746  
Preparation: EPA 3545  
Method: EPA 8082  
Units: ug/smpl

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>TTP-W001</b>	<b>17-06-0746-1-A</b>	<b>06/06/17 10:10</b>	<b>Wipe</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 18:21</b>	<b>170613L13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	103	50-130	
2,4,5,6-Tetrachloro-m-Xylene	88	50-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>TTP-W002</b>	<b>17-06-0746-2-A</b>	<b>06/06/17 10:20</b>	<b>Wipe</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 18:39</b>	<b>170613L13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	95	50-130	
2,4,5,6-Tetrachloro-m-Xylene	78	50-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



### Analytical Report

EA Engineering	Date Received:	06/09/17
615 Piikoi Street, Suite 515	Work Order:	17-06-0746
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/smpl

Project: Hazmat Survey - GPA 93156.01 Page 2 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>TTP-W003</b>	<b>17-06-0746-3-A</b>	<b>06/06/17 10:30</b>	<b>Wipe</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 18:57</b>	<b>170613L13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	76	50-130	
2,4,5,6-Tetrachloro-m-Xylene	61	50-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>TTP-W004</b>	<b>17-06-0746-4-A</b>	<b>06/06/17 10:40</b>	<b>Wipe</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 19:15</b>	<b>170613L13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	112	50-130	
2,4,5,6-Tetrachloro-m-Xylene	92	50-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





### Analytical Report

EA Engineering	Date Received:	06/09/17
615 Piikoi Street, Suite 515	Work Order:	17-06-0746
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/smpl

Project: Hazmat Survey - GPA 93156.01 Page 3 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>TTP-W005</b>	<b>17-06-0746-5-A</b>	<b>06/06/17 10:50</b>	<b>Wipe</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 19:33</b>	<b>170613L13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	113	50-130	
2,4,5,6-Tetrachloro-m-Xylene	92	50-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>TTP-W006</b>	<b>17-06-0746-6-A</b>	<b>06/06/17 10:58</b>	<b>Wipe</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 19:51</b>	<b>170613L13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	108	50-130	
2,4,5,6-Tetrachloro-m-Xylene	90	50-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





### Analytical Report

EA Engineering	Date Received:	06/09/17
615 Piikoi Street, Suite 515	Work Order:	17-06-0746
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/smpl

Project: Hazmat Survey - GPA 93156.01 Page 4 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>TTP-W007</b>	<b>17-06-0746-7-A</b>	<b>06/06/17 11:00</b>	<b>Wipe</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 20:08</b>	<b>170613L13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	5.7	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	130	50-130	
2,4,5,6-Tetrachloro-m-Xylene	98	50-130	

TTP-W008	17-06-0746-8-A	06/06/17 11:45	Wipe	GC 58	06/13/17	06/14/17 20:26	170613L13
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Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	85	50-130	
2,4,5,6-Tetrachloro-m-Xylene	68	50-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





### Analytical Report

EA Engineering	Date Received:	06/09/17
615 Piikoi Street, Suite 515	Work Order:	17-06-0746
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/smpl

Project: Hazmat Survey - GPA 93156.01 Page 5 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>TTP-W009</b>	<b>17-06-0746-9-A</b>	<b>06/06/17 11:50</b>	<b>Wipe</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 20:44</b>	<b>170613L13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	109	50-130	
2,4,5,6-Tetrachloro-m-Xylene	88	50-130	

<b>TTP-W010</b>	<b>17-06-0746-10-A</b>	<b>06/06/17 11:52</b>	<b>Wipe</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 21:02</b>	<b>170613L13</b>
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Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	111	50-130	
2,4,5,6-Tetrachloro-m-Xylene	71	50-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





### Analytical Report

EA Engineering	Date Received:	06/09/17
615 Piikoi Street, Suite 515	Work Order:	17-06-0746
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/smpl

Project: Hazmat Survey - GPA 93156.01 Page 6 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>TTP-W011</b>	<b>17-06-0746-11-A</b>	<b>06/06/17 11:55</b>	<b>Wipe</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 21:21</b>	<b>170613L13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	93	50-130	
2,4,5,6-Tetrachloro-m-Xylene	64	50-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>TTP-W012</b>	<b>17-06-0746-12-A</b>	<b>06/06/17 11:58</b>	<b>Wipe</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 21:39</b>	<b>170613L13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	106	50-130	
2,4,5,6-Tetrachloro-m-Xylene	71	50-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





### Analytical Report

EA Engineering	Date Received:	06/09/17
615 Piikoi Street, Suite 515	Work Order:	17-06-0746
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/smpl

Project: Hazmat Survey - GPA 93156.01 Page 7 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>TTP-W013</b>	<b>17-06-0746-13-A</b>	<b>06/06/17 12:00</b>	<b>Wipe</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 21:56</b>	<b>170613L13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	117	50-130	
2,4,5,6-Tetrachloro-m-Xylene	77	50-130	

TTP-W014	17-06-0746-14-A	06/06/17 12:10	Wipe	GC 58	06/13/17	06/14/17 22:14	170613L13
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Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	115	50-130	
2,4,5,6-Tetrachloro-m-Xylene	74	50-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

EA Engineering	Date Received:	06/09/17
615 Piikoi Street, Suite 515	Work Order:	17-06-0746
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/smpl

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-12-582-537</b>	<b>N/A</b>	<b>Filter</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 17:45</b>	<b>170613L13</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	1.0	0.42	1.00	
Aroclor-1221	ND	1.0	0.85	1.00	
Aroclor-1232	ND	1.0	0.50	1.00	
Aroclor-1242	ND	1.0	0.74	1.00	
Aroclor-1248	ND	1.0	0.64	1.00	
Aroclor-1254	ND	1.0	0.63	1.00	
Aroclor-1260	ND	1.0	0.61	1.00	
Aroclor-1262	ND	1.0	0.69	1.00	
Aroclor-1268	ND	1.0	0.67	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	81	50-130	
2,4,5,6-Tetrachloro-m-Xylene	81	50-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





### Quality Control - LCS/LCSD

EA Engineering	Date Received:	06/09/17
615 Piikoi Street, Suite 515	Work Order:	17-06-0746
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
Project: Hazmat Survey - GPA 93156.01		Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
<b>099-12-582-537</b>	<b>LCS</b>	<b>Filter</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 22:32</b>	<b>170613L13</b>
<b>099-12-582-537</b>	<b>LCSD</b>	<b>Filter</b>	<b>GC 58</b>	<b>06/13/17</b>	<b>06/14/17 22:50</b>	<b>170613L13</b>

<u>Parameter</u>	<u>Spike Added</u>	<u>LCS Conc.</u>	<u>LCS %Rec.</u>	<u>LCSD Conc.</u>	<u>LCSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Aroclor-1016	2.000	1.510	76	1.610	80	50-135	6	0-25	
Aroclor-1260	2.000	1.380	69	1.530	76	50-135	10	0-25	

↑  
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RPD: Relative Percent Difference. CL: Control Limits

## Sample Analysis Summary Report

Work Order: 17-06-0746

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 8082	EPA 3545	944	GC 58	1

  
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## Glossary of Terms and Qualifiers

Work Order: 17-06-0746

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494  
For courier service / sample drop off information, contact us@eurofins.com or call us.

LABORATORY CLIENT: EA Engineering, Science, and Technology, Inc. PBC

ADDRESS: 1001 Army Drive, Suite 103

CITY: Barrigada

STATE: GU ZIP: 96913

TEL: 671-646-5231

E-MAIL: rshambach@eaeast.com, bnuiding@eaeast.com

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

GLOBAL ID:

LOG CODE:

SPECIAL INSTRUCTIONS:

# CHAIN OF CUSTODY RECORD

DATE: 06/06/17

PAGE: 1 OF 1

WO # / LAB USE ONLY

## 17-06-0746

CLIENT PROJECT NAME / NUMBER:

Hazmat Survey - GPA 63156.01

PROJECT CONTACT:

Brenda Nuding (Chemist); Bob Shambach (PM)

P.O. NO.:

16405

SAMPLER(S): (PRINT)

Robert Shambach/Jaquay Soriano

### REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	DATE	TIME	MATRIX	NO. OF CONT.	Field Filtered	Unpreserved	Preserved (C <sub>6</sub> H <sub>4</sub> )
1	TTP-W001	6/6/2017	1010	WIPE	1			X
2	TTP-W002	6/6/2017	1020	WIPE	1			X
3	TTP-W003	6/6/2017	1030	WIPE	1			X
4	TTP-W004	6/6/2017	1040	WIPE	1			X
5	TTP-W005	6/6/2017	1050	WIPE	1			X
6	TTP-W006	6/6/2017	1058	WIPE	1			X
7	TTP-W007	6/6/2017	1100	WIPE	1			X
8	TTP-W008	6/6/2017	1145	WIPE	1			X
9	TTP-W009	6/6/2017	1150	WIPE	1			X
10	TTP-W010	6/6/2017	1152	WIPE	1			X
11	TTP-W011	6/6/2017	1155	WIPE	1			X
12	TTP-W012	6/6/2017	1158	WIPE	1			X
13	TTP-W013	6/6/2017	1200	WIPE	1			X
14	TTP-W014	6/6/2017	1210	WIPE	1			X

TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH <input type="checkbox"/> DRO	TPH <input type="checkbox"/> GRO	TPH <input type="checkbox"/> DRO	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6
										X			
										X			
										X			
										X			
										X			
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										X			
										X			

Relinquished by: (Signature)		Date: 6/1/17	Time: 1100	Received by: (Signature/Affiliation)		Date:	Time:
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature/Affiliation)		Date: 6/9/17	Time: 1030
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature/Affiliation)		Date:	Time:

07HG

# FedEx International Air Waybill

Express

FedEx Tracking Number: **8088 0762 4481** Form ID No: **0402** **Origin Copy**

**1 From**

Date: 04/27/14 Sender's FedEx Account Number: 3175 5776-0

Sender's Name: Shooka Technology Phone: 6716469231

Company: EA King, Inc. P.O. Box 1100

Address: 101 Army Ave Suite 100

Address:

City: Durham State: NC

Country: 90913 ZIP Postal Code:

**4 Express Package Service**

1  FedEx Intl. Priority 6  FedEx Intl. First Available to select locations.

3  FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

*Packages up to 150 lbs. / 68 kg For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.*

*Not all services and options are available to all destinations. Dangerous goods can be shipped using the Air Waybill.*

**2 To**

Recipient's Name: Carla Lee Hollardell Phone: 714 9955444

Company: Enviros Cal Science, Inc

Address: 7440 Lincoln Way

Address:

City: Garden Grove State: CA

Country: USA ZIP Postal Code: 92841

Recipient's Tax ID Number for Customs Purposes e.g., GST/RFC/VAT/INEIN/ABN, or as locally required.

**5 Packaging**

6  FedEx Envelope 2  FedEx Pak 3  FedEx Box 4  FedEx Tube

1  Other coolbox PW  FedEx 10kg Box\* PX  FedEx 25kg Box\*

*\*These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.*

**6 Special Handling**

1  HOLD at FedEx Location 3  SATURDAY Delivery Available to select locations for FedEx Intl. Priority only.

**7 Payment**

Bill transportation charges to:

1  Sender Acct. No. in Section 1 will be billed. 2  Recipient 3  Third Party 4  Credit Card 5  Cash Check/Checkue

Enter FedEx Acct. No. or Credit Card No. below.

FedEx Acct. No.: 3175-5776-0

Credit Card Exp. Date:

Specify Currency:

Bill duties and taxes to:

1  Sender Acct. No. in Section 1 will be billed. 2  Recipient 3  Third Party 5  Check/Checkue

Enter FedEx Acct. No. below, which FedEx does not estimate prior to clearance.

FedEx Acct. No.:

**8 Your Internal Billing Reference**

First 24 characters will appear on invoice.

6315601

**3 Shipment Information**

For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages: 1 Total Weight: 22 lbs.  kg  DIM: 15, 11, 17 in.  cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
<u>Electronics</u>		<u>USA</u>	<u>100</u>

Has EEI been filed in AES? For U.S. Export Only: Check One

No EEI required, value \$2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.  Total Declared Value for Carriage: 100

No EEI required, enter exemption number: If other than NLR, enter License Exception:

Yes - Enter AES proof of filing citation:

Total Value for Customs (Specify Currency): 100 USD

**9 Required Signature**

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: [Signature]

This is not authorization to deliver this shipment without a recipient signature.

Received above shipment in good order and condition. We agree to pay all charges, including Customs duties and taxes as applicable, and we agree to the Conditions of Carriage as stated on the reverse side of the Recipient's Copy.

Recipient's Signature: \_\_\_\_\_

FedEx Tracking Number: **8088 0762 4481 0402**

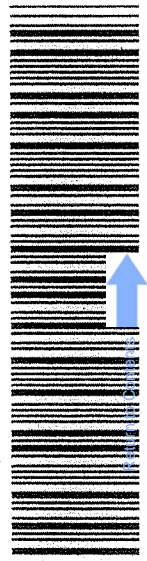
Origin Station ID: GUWA Country Code/Destination Station ID: APVA WZAPVA URSA Routing: WZAPVA Handling Units: 1 Total Volume (cm): \_\_\_\_\_

Received At: 1  Reg. Stop 2  On-Call Stop 3  Drop Box 4  World Service Center 5  Station

Base Charges: 22.53 Declared Val. Chrg. 0.00 ODA/OPA: 0.00 Credit Card Auth. \_\_\_\_\_

FedEx Emp. # 2253 Audit Emp. # \_\_\_\_\_ Date 04/27/14 Time \_\_\_\_\_ Del. Courier Emp. # \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Non-Negotiable International Air Waybill \*921954



568

PART 15600 Rev. Date 11/08 ©1994-2008 FedEx PRINTED IN CHINA Form ID No.

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: EAE

DATE: 06/09/2017

**TEMPERATURE:** (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC3 (CF: 0.0°C); Temperature (w/o CF): 3.4 °C (w/ CF): 3.4 °C;  Blank  Sample

Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature:  Air  Filter

Checked by: LS

**CUSTODY SEAL:**

Cooler  Present and Intact  Present but Not Intact  Not Present  N/A

Sample(s)  Present and Intact  Present but Not Intact  Not Present  N/A

Checked by: LS

Checked by: 1053

**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers			
<input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time			
Sampler's name indicated on COC .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and in good condition .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sufficient volume/mass for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within holding time .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples for certain analyses received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation chemical(s) noted on COC and/or sample container .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Unpreserved aqueous sample(s) received for certain analyses			
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Total Metals <input type="checkbox"/> Dissolved Metals			
Container(s) for certain analysis free of headspace .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500)			
<input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:** (Trip Blank Lot Number: \_\_\_\_\_)

**Aqueous:**  VOA  VOA<sub>h</sub>  VOA<sub>na2</sub>  100PJ  100PJ<sub>na2</sub>  125AGB  125AGB<sub>h</sub>  125AGB<sub>p</sub>  125PB

125PB<sub>z<sub>na</sub></sub>  250AGB  250CGB  250CGB<sub>s</sub>  250PB  250PB<sub>n</sub>  500AGB  500AGJ  500AGJ<sub>s</sub>

500PB  1AGB  1AGB<sub>na2</sub>  1AGB<sub>s</sub>  1PB  1PB<sub>na</sub>  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

**Solid:**  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (\_\_\_\_\_)  EnCores® (\_\_\_\_\_)  TerraCores® (\_\_\_\_\_)  \_\_\_\_\_

**Air:**  Tedlar™  Canister  Sorbent Tube  PUF  \_\_\_\_\_ **Other Matrix** (Wipe):  20265  \_\_\_\_\_

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO<sub>3</sub>, **na** = NaOH, **na<sub>2</sub>** = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, **p** = H<sub>3</sub>PO<sub>4</sub>, **s** = H<sub>2</sub>SO<sub>4</sub>, **u** = ultra-pure, **x** = Na<sub>2</sub>SO<sub>3</sub>+NaHSO<sub>4</sub>.H<sub>2</sub>O, **z<sub>na</sub>** = Zn (CH<sub>3</sub>CO<sub>2</sub>)<sub>2</sub> + NaOH

Labeled/Checked by: 1053

Reviewed by: 718



**APPENDIX O – HAZARDOUS MATERIAL SURVEY DATA REPORT- DEDEDO DIESEL POWER PLANT**



# **HAZARDOUS MATERIALS SURVEY DATA REPORT**

## **DEDEDO DIESEL POWER PLANT**

31 August 2017

Prepared By



EA Engineering, Science, & Technology, Inc., PBC

1001 Army Drive, Suite 103  
Barrigada, Guam 96913





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### LIST OF ACRONYMS AND ABBREVIATIONS

ACM	Asbestos-Containing Materials
AST	aboveground storage tank
CFR	Code of Federal Regulations
EA	EA Engineering, Science, and Technology, Inc., PBC
EPA	U.S. Environmental Protection Agency
GPA	Guam Power Authority
HUD	Department of Housing and Urban Development
HID	high-intensity discharge
IFB	Invitation for Bid
LBP	lead-based paint
LCP	lead-containing paint
mg/cm <sup>2</sup>	milligrams per square centimeter
mg/L	milligrams per liter
OSHA	Occupational Safety and Health Administration
PCB	polychlorinated biphenyl
PLM	Polarized Light Microscopy
RCRA	Resource Conservation and Recovery Act
TCLP	Toxicity Characteristic Leaching Procedure
XRF	X-ray Fluorescence Spectrum Analyzer



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## 1.0 EXECUTIVE SUMMARY

### Asbestos-Containing Materials (ACM)

ACM was not present in any of the materials tested at the Dededo Diesel Power Plant.

### Lead-Based Paint (LBP)

XRF readings were collected at 307 locations on the interior and exterior building and components at the property. Painted component surfaces that were tested and confirmed to be LBP includes: cement foundations, roll-up doors, door frames, concrete supports, outdoor water storage tank, Z-channel, metal I-beams, compressed air line, fuel lines, tank 1, generator 4 foundation and platform, and control panel in control room. Surfaces were identified as LBP if the results were equal to or greater than the HUD definition of lead-based paint of 1.0 mg/cm<sup>2</sup>. LCP (greater than 0.0 mg/cm<sup>2</sup>) was observed on the majority of the painted surfaces.

### Polychlorinated Biphenyls (PCBs)

Seven (7) fluorescent light ballasts were surveyed at the Dededo Diesel Power Plant, none of which contain PCBs. Grab surface soil samples collected at the former transformer area at the plant contained PCB concentrations below the screening criteria.

### Mercury-Containing Sources

Thirty-eight (38) fluorescent light tubes and six (6) high-intensity discharge (HID) lamps were identified at the Dededo Diesel Power Plant. All tubes and lamps are assumed to be mercury-containing. No other mercury containing sources were observed at the property.

### Containerized Hazardous Substances/Regulated Materials

Twenty (20) items of containerized hazardous substances and regulated materials were identified at the Dededo Diesel Power Plant.

## 2.0 INTRODUCTION

EA Engineering, Science, and Technology, Inc., PBC (EA) was contracted by the Guam Power Authority (GPA) to conduct a Hazardous Materials Survey at the Dededo Diesel Power Plant (“the facility”), which is anticipated for future demolition. The Hazardous Materials Survey was conducted in accordance with the requirements in the GPA Invitation for Bid (IFB) to include ACM, LBP, PCB-containing equipment, containerized wastes, and other miscellaneous regulated materials.

The purpose of the hazardous materials survey was to identify building materials and components at the property that may require special handling and/or disposal during any future demolition or construction activities. Surveys at the facility were conducted from March through June 2017. This report presents the inspection findings of the surveys performed at the facility main power plant structure, former transformer pad, aboveground storage tanks (ASTs), and exhaust stacks. This report also presents the laboratory analytical results from samples collected from the property.



### **3.0 LIMITATIONS**

Our professional services have been performed, our findings obtained and our recommendations prepared in accordance with customary principles and practices in the field of environmental science and engineering. This statement is in lieu of other statements either expressed or implied. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

EA does not warrant that there are no environmental issues beyond those identified in this report, nor does EA accept any liability if such are found at some future time, or could have been found if sampling or additional studies were conducted. EA does not assume responsibility for other environmental issues that may be associated with the subject property.

This report is not intended to serve as a bidding document nor as a project specification document. Actual site conditions and quantities should be field-verified. Additionally, the passage of time may result in a change in the environmental characteristics at this site. The results, findings, conclusions, and recommendations expressed in this report are based only on conditions that were observed during EA's inspection of the site. In view of the rapidly changing status of environmental laws, regulations, and guidelines, EA cannot be responsible for changes in laws, regulations, or guidelines which occur after the study has been completed and which may affect the subject property.

This report was prepared for GPA by EA and is based in part on third-party information not within the control of EA. While it is believed that the third-party information contained herein will be reliable under the conditions and subject to the limitations set forth herein, EA does not guarantee the accuracy thereof. This report has been completed solely for the use of GPA and is being provided as a confidential document. Any transfer of this report to third parties is the sole responsibility of GPA.

### **4.0 PROPERTY DESCRIPTION**

The Dededo Diesel Power Plant is located at Lot 10122-10-1 & 10122-13-1 Marine Corp. Drive in the Municipality of Dededo, Guam (Figure 1). The facility is comprised of the main power plant structure, former transformer pad, ASTs, and exhaust stacks (Figures 2 and 3). The main power plant structure is approximately 7,500 square feet of covered space. The former transformer pad was located on the south side of the main power plant structure.

### **5.0 ASBESTOS-CONTAINING MATERIALS**

#### **5.1 INSPECTION METHODOLOGY**

Inspectors performed detailed visual inspection of accessible areas, assessment of potentially inaccessible areas, and sampling to locate friable and non-friable ACM. This was done in accordance with the U.S. Environmental Protection Agency (EPA) Standard 40 CFR 763, Subpart E, Asbestos Hazard Emergency Response Act inspection and sampling protocol. Samples were collected, minimizing disruption, sealed and labeled with a unique identification

name, and then double bagged, with the chain-of-custody in the second bag. The samples were then submitted to the laboratory for analysis by Polarized Light Microscopy (PLM) in accordance with the EPA Method for the Determination of Asbestos in Bulk Insulation Samples (EPA/600/R-93/116). The selected laboratory, Schneider Laboratories Global, Inc., in Richmond, Virginia is certified for bulk asbestos sample analysis via PLM by the National Institute for Science and Technology through the National Voluntary Laboratory Accreditation Program.

EA assessed the potential ACM as being either friable or non-friable and classified ACM in good, fair or poor condition. The following are the general definitions of each category:

<b>Friable</b>	ACM, when dry, that can be crumbled, pulverized, or reduced to powder by hand pressure
<b>Good Condition</b>	ACM which is intact with no noticeable damage
<b>Fair Condition</b>	ACM with a small amount of overall or localized damage (generally less than 10% of the entire area)
<b>Poor Condition</b>	ACM with a large amount of damage (generally greater than 10% of the entire surface area)

*ACM Sample Collection*

ACM samples were collected in a manner as to minimize disruption of the function or appearance of the source area. Once samples were collected and placed in a sample container (resealable plastic bag), the bags were sealed and labeled.

All sample designations are unique. Prior to shipment, the bagged samples were placed into a larger sealable bag for double containment. One secondary containment bag was used to contain the samples from a single building. The completed chain-of-custody forms were added to the secondary containment bags. The bags were placed into rigid containers or boxes for delivery to the analytical laboratory.

**5.2 SUMMARY OF FINDINGS**

A total of 15 samples of suspect ACM were collected from the interior and exterior of the property. Samples locations are presented on Figure 4 and Appendix A contains the ACM inspection report that was developed which includes a quantified assessment for the amount of ACM present. The results indicate that asbestos is not present in any of the materials tested. This will be used as a reference for removal and disposal during future demolition/renovation.

**5.3 CONCLUSIONS AND RECOMMENDATIONS**

The EPA National Emission Standards for Hazardous Air Pollutants regulations (40 CFR subpart M, part 61) require the removal of friable forms of asbestos and non-friable forms that may be rendered friable as a result of renovation/demolition activities. Friability refers to the ability to crumble, pulverize, or reduce to powder by hand pressure. OSHA regulates exposure to all types





of asbestos in construction and general industry (29 CFR 1926.1101 and 29 CFR 1910.1001 respectively).

Since there were no ACM identified in the building, no specific recommendations are applicable.

## **6.0 LEAD-BASED PAINT**

### **6.1 INSPECTION METHODOLOGY**

EA performed a lead-based and lead-containing paint survey to identify locations of LBP that may be disturbed during renovation of the Dededo Diesel Power Plant. The survey was completed utilizing a Niton XLp 300A Spectrum Analyzer.

Prior to obtaining readings from suspect LBP surfaces, the XRF was calibrated in accordance with the manufacturer's instructions. A minimum of three tests was performed on a lead paint standard to check the calibration of the instrument. Once the XRF displays three consecutive readings within the acceptable range of 0.8 – 1.2 mg/cm<sup>2</sup>, the unit is considered to be functioning properly and within the established tolerance. Calibration checks were performed prior to surveying and at the end of daily field activities. Paint chip samples were not collected during the LBP survey.

Federal or state regulations do not currently specify testing procedures for non-residential structures scheduled for renovation. XRF readings above 0.0 mg/cm<sup>2</sup> are addressed as LCP and possible exposure hazard to workers under the OSHA Lead in Construction standard found at 29 CFR 1926.62. Any removal actions for LBP structural materials should follow federal Resource Conservation and Recovery Act (RCRA) standards. The hazardous waste criterion for lead wastes is established under RCRA, Subtitle C, as 5.0 milligrams per liter (mg/L) measured with the Toxicity Characteristic Leaching Procedure (TCLP). A photo log of LBP surveys is presented in Appendix B.

### **6.2 SUMMARY OF FINDINGS**

XRF readings were collected at 307 locations on the interior and exterior building and components at the property. Table 1 provides a summary of painted component surfaces that were tested (confirmed LBP in bold font). This table includes a description of the tested component, location, paint color, and test results. Surfaces were identified as LBP if the results were equal to or greater than the HUD definition of lead-based paint of 1.0 mg/cm<sup>2</sup>. LCP (greater than 0.0 mg/cm<sup>2</sup>) was observed on the majority of the painted surfaces. A photo log of the LBP survey is presented in Appendix B.

### **6.3 CONCLUSIONS AND RECOMMENDATIONS**

LBP and LCP were identified at various locations throughout the Dededo Diesel Power Plant as presented in Table 1. Although LBP and LCP are not required to be abated prior to renovation activities, contractors working on LBP/LCP-coated structures and/or in areas containing LBP/LCP should be notified of its presence and must adhere to the requirements of OSHA Lead



in Construction (29 CFR 1926.62). In addition, LBP/LCP-containing waste and debris generated via renovation activities must be sampled and analyzed by TCLP to determine lead content in the generated waste. If the result of the TCLP testing indicates greater than 5.0 mg/L of lead in the waste stream, specialized disposal procedures are required. All lead paint containing debris exceeding the TCLP standard for lead and other metals shall be disposed of as a hazardous waste.

According to the OSHA Lead in Construction standard found at 29 CFR 1926.62, workers in contact with materials identified as either LCP or LBP are potentially at risk for exposure to lead. Current OSHA regulations require that lead-containing surfaces that may be affected by building renovation activities be identified prior to conducting these activities.

As with any painted surface, the underlying paint layers can vary in color and lead content. Therefore, negative test results for a given component and surface color should not be relied upon for similar appearing components. For instance, the same color surface paint on doors can produce negative results on some doors and be positive (due to underlying paint) on other doors.

Untested facility components or structures should be considered to contain regulated levels of lead until subsequent testing shows otherwise. However, the same positive test combinations of substrate, paint color, and component at one location should be assumed to contain lead at locations not specifically sampled. Although LCP is not required to be abated prior to renovation activities, contractors working on lead-painted components and/or working in the area of lead-containing paint should be notified of its presence and must adhere to the requirements of OSHA Lead in Construction (29 CFR 1926.62). In addition, EA recommends that representative TCLP testing of any possible lead-containing waste generated during facility renovation activities be conducted to determine waste disposal requirements.

## **7.0 POLYCHLORINATED BIPHENYLS**

### **7.1 INSPECTION METHODOLOGY**

EA staff performed a visual inspection in accordance with the requirements in the GPA IFB in an attempt to detect sources that may contain PCBs. Examples of suspect sources of PCBs include light ballasts, transformers pads, pole mounted transformers, hydraulic fluids, oils and paints, switches, motors, drains, sumps, and sediments.

The transformers at the southern portion of the Dededo Power Plant have been removed; however, the soil at the former location of the transformers had not been previously tested for PCBs. Surface soil samples were collected, prepared, and analyzed to characterize suspect PCB oils and greases (Figure 4).

### **7.2 SUMMARY OF FINDINGS**

Seven (7) light ballasts were inspected for PCB-containing components at the Dededo Diesel Power Plant, none of which contained PCB ballasts. It is therefore assumed that all lighting fixtures at the property are non-PCB containing.



EA collected 11 grab surface soil samples (including 1 duplicate sample). A photo log of PCB soil sampling is presented in Appendix B. All soil samples collected contained PCB concentrations below the screening criteria of 9.8 milligrams per kilogram as shown in Table 3. Laboratory data reports are provided in Appendix C.

### **7.3 CONCLUSIONS AND RECOMMENDATIONS**

All suspect PCBs identified should be handled and disposed of in accordance with 40 CFR 761.50(b) (2) (ii) and 40 CFR 761.62(a)-(c) prior to renovation.

## **8.0 MERCURY-CONTAINING SOURCES**

### **8.1 INSPECTION METHODOLOGY**

EA performed a visual inspection at the property in an attempt to detect any sources that may contain mercury. Examples of suspect sources of mercury that EA attempted to locate were fluorescent lights, HID lamps, and thermostats.

### **8.2 SUMMARY OF FINDINGS**

EA identified 38 fluorescent light tubes and six (6) HID lamps at the Dededo Diesel Power Plant that which may contain mercury. No thermostats were observed at the property.

### **8.3 CONCLUSIONS AND RECOMMENDATIONS**

The transportation and disposal of all mercury-containing light sources should be conducted in accordance with 40 CFR 261 – 263.

## **9.0 CONTAINERIZED HAZARDOUS SUBSTANCES / REGULATED MATERIALS**

### **9.1 INSPECTION METHODOLOGY**

EA performed a visual inspection at the Dededo Diesel Power Plant for containerized hazardous substances and other regulated materials. The inspection documented the presence of 55-gallon drums, compressed gas cylinders, waste storage bins, mercury switches, thermostats, tanks containing caustic solutions, anti-scaling chemicals, oils, fuels, ASTs, underground storage tanks, sumps, cesspools, piping, backup generators, resins, batteries, and other suspect containers or wastes.

### **9.2 SUMMARY OF FINDINGS**

Table 2 lists a thorough inventory of containerized hazardous substances and other regulated materials. EA surveyed 20 different types of containerized hazardous substances and regulated materials.

### **9.3 CONCLUSIONS AND RECOMMENDATIONS**

Containerized hazardous substances and other regulated materials were identified during this investigation. In order to prevent an unintentional release, any hazardous materials identified should be removed and properly disposed in accordance with any applicable federal, state, and local regulations prior to renovation.



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## **TABLES**



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**TABLE 1. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE DEDEDO DIESEL POWER PLANT**

<b>Date</b>	<b>Shot No.</b>	<b>Location</b>	<b>Description</b>	<b>Color</b>	<b>Analytical Results (mg/cm<sup>2</sup>)</b>
27-Mar-17	4	Exterior	Southern/Southwest Wall	Beige	0.00
27-Mar-17	5	Exterior	Southern/Southwest Wall	Beige	0.50
27-Mar-17	6	Exterior	Electrical Box	Green	0.00
27-Mar-17	7	Exterior	HVAC	Grey	0.00
27-Mar-17	8	Exterior	Old Foundation	Metal	<b>3.70</b>
27-Mar-17	9	Exterior	Concrete Pad	Grey	0.60
27-Mar-17	10	Exterior	Southern/Southwest Wall	Beige	0.50
27-Mar-17	11	Exterior	Metal Door	Grey	0.00
27-Mar-17	12	Exterior	Door Frame	Green	0.00
27-Mar-17	13	Exterior	HAZMAT Locker	Grey	0.01
27-Mar-17	14	Exterior	HAZMAT Locker inside frame	White	0.19
27-Mar-17	15	Exterior	HAZMAT Locker metal door	Grey	0.08
27-Mar-17	16	Exterior	HAZMAT interior metal	White	0.01
27-Mar-17	17	Exterior	Southern/Southwest Wall	White	0.00
27-Mar-17	18	Exterior	HVAC old unit	Grey	0.00
27-Mar-17	19	Exterior	SW fire piping	Red	0.00
27-Mar-17	20	Exterior	SW PVC drain pipe	White	0.00
27-Mar-17	21	Exterior	East wall metal canopy	Grey	0.12
27-Mar-17	22	Exterior	East wall metal canopy	Grey	0.19
27-Mar-17	23	Exterior	East wall metal canopy	Grey	0.02
<b>Lead-Based Paint</b>					
<i>Lead-Containing Paint</i>					
<b>Bold</b> denotes lead concentrations greater than 1.0 mg/cm <sup>2</sup> .					
<i>Italics</i> denotes lead concentrations less than 1.0 mg/cm <sup>2</sup> .					
<LOD=not detected as a concentration exceeding the limit of detection.					





**TABLE 1. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE DEDEDO DIESEL POWER PLANT**

<b>Date</b>	<b>Shot No.</b>	<b>Location</b>	<b>Description</b>	<b>Color</b>	<b>Analytical Results (mg/cm<sup>2</sup>)</b>
27-Mar-17	24	Exterior	Metal canopy beam	Beige	0.00
27-Mar-17	25	Exterior	Concrete canopy beam	Grey	0.40
27-Mar-17	26	Exterior	Metal canopy beam	Grey	0.00
27-Mar-17	27	Exterior	Metal canopy beam retest	Grey	0.00
27-Mar-17	28	Exterior	Green box	Green	0.00
27-Mar-17	29	Exterior	East wall	Beige	0.00
27-Mar-17	30	Exterior	East wall	Beige	0.00
27-Mar-17	31	Exterior	Wood door frame	Green	0.00
27-Mar-17	32	Exterior	Door	Green	0.00
27-Mar-17	33	Exterior	Metal east wall frame	Beige	0.10
27-Mar-17	34	Exterior	Metal siding	Grey	0.07
27-Mar-17	35	Exterior	Roll up metal door	Beige	0.60
27-Mar-17	36	Exterior	Roll up door - south angle bar	Beige	<b>1.10</b>
27-Mar-17	37	Exterior	Roll up door - south angle bar	Beige	0.60
27-Mar-17	38	Exterior	North roll up door	Beige	<b>7.40</b>
27-Mar-17	39	Exterior	North roll up door retest	Beige	<b>5.20</b>
27-Mar-17	40	Exterior	South roll up door frame	Beige	<b>1.00</b>
27-Mar-17	41	Exterior	East wall	Beige	0.18
27-Mar-17	42	Exterior	North wall vent frame	Beige	0.04
27-Mar-17	43	Exterior	Concrete wall support	Green/Black	<b>1.80</b>
<b>Lead-Based Paint</b>					
<i>Lead-Containing Paint</i>					
<b>Bold</b> denotes lead concentrations greater than 1.0 mg/cm <sup>2</sup> .					
<i>Italics</i> denotes lead concentrations less than 1.0 mg/cm <sup>2</sup> .					
<LOD=not detected as a concentration exceeding the limit of detection.					



**TABLE 1. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE DEDEDO DIESEL POWER PLANT**

<b>Date</b>	<b>Shot No.</b>	<b>Location</b>	<b>Description</b>	<b>Color</b>	<b>Analytical Results (mg/cm<sup>2</sup>)</b>
27-Mar-17	44	Exterior	Large concrete support	Green/Black	<b>1.20</b>
27-Mar-17	45	Exterior	1st Engine - cooling water pipe	White	0.00
27-Mar-17	46	Exterior	1st Engine - censored cooling pipe	White	0.00
27-Mar-17	47	Exterior	1st Engine - cross beam	White	0.50
27-Mar-17	48	Exterior	Power frame?	White	0.00
27-Mar-17	49	Exterior	Cross beam	White	0.02
27-Mar-17	50	Exterior	Cross beam	White	0.25
27-Mar-17	51	Exterior	Pipe	White	0.00
27-Mar-17	53	Exterior	Pipe strap	White	0.00
27-Mar-17	54	Exterior	Pipe support	White	0.09
27-Mar-17	55	Exterior	Water line (1' 1/4" pipe)	White	0.23
27-Mar-17	56	Exterior	Water line bracket	White	0.00
27-Mar-17	57	Exterior	I beam	White	0.00
27-Mar-17	58	Exterior	I beam	White	0.00
27-Mar-17	59	Exterior	Cross beam	White	0.00
27-Mar-17	60	Exterior	Power switch frame	White	0.00
27-Mar-17	61	Exterior	Concrete support	Green	<b>1.50</b>
27-Mar-17	62	Exterior	Concrete support	Green/Black	0.50
27-Mar-17	63	Exterior	North metal wall	Beige	0.10
27-Mar-17	64	Exterior	Metal door	Beige	0.00
<b>Lead-Based Paint</b>					
<i>Lead-Containing Paint</i>					
<b>Bold</b> denotes lead concentrations greater than 1.0 mg/cm <sup>2</sup> .					
<i>Italics</i> denotes lead concentrations less than 1.0 mg/cm <sup>2</sup> .					
<LOD—not detected as a concentration exceeding the limit of detection.					



**TABLE 1. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE DEDEDO DIESEL POWER PLANT**

<b>Date</b>	<b>Shot No.</b>	<b>Location</b>	<b>Description</b>	<b>Color</b>	<b>Analytical Results (mg/cm<sup>2</sup>)</b>
27-Mar-17	65	Exterior	Power switch	White	0.00
27-Mar-17	66	Exterior	Power box	White	0.00
27-Mar-17	67	Exterior	I beam beneath engines 2/3	White	0.00
27-Mar-17	68	Exterior	Metal chair at engines 3/4	White	0.16
27-Mar-17	69	Exterior	Metal stair tread	White	0.06
27-Mar-17	70	Exterior	Metal stair railing	White	0.00
27-Mar-17	72	Exterior	Stair metal crossbeam	Beige	0.00
27-Mar-17	73	Exterior	Stair handrail	White	0.14
27-Mar-17	74	Exterior	Power bracket	White	0.00
27-Mar-17	75	Exterior	Concrete support	Green	<b>2.60</b>
27-Mar-17	77	Exterior	Concrete support	Green	0.70
27-Mar-17	78	Exterior	Water pipe	White	0.00
27-Mar-17	80	Exterior	Water pipe flange	White	0.00
27-Mar-17	81	Exterior	I beam	White	0.00
27-Mar-17	82	Exterior	Cross beam	White	0.01
27-Mar-17	83	Exterior	Power switch	White	0.00
27-Mar-17	84	Exterior	North facing wall	Beige	0.14
27-Mar-17	85	Exterior	Metal cross beam near engine 4	White	0.12
27-Mar-17	86	Exterior	Metal bracket	White	0.00
27-Mar-17	87	Exterior	Center pipe	White	0.00
<b>Lead-Based Paint</b>					
<i>Lead-Containing Paint</i>					
<b>Bold</b> denotes lead concentrations greater than 1.0 mg/cm <sup>2</sup> .					
<i>Italics</i> denotes lead concentrations less than 1.0 mg/cm <sup>2</sup> .					
<LOD=not detected as a concentration exceeding the limit of detection.					



**TABLE 1. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE DEDEDO DIESEL POWER PLANT**

<b>Date</b>	<b>Shot No.</b>	<b>Location</b>	<b>Description</b>	<b>Color</b>	<b>Analytical Results (mg/cm<sup>2</sup>)</b>
27-Mar-17	88	Exterior	Metal west wall	Beige	0.08
27-Mar-17	89	Exterior	Fire piping	Red	0.00
27-Mar-17	90	Exterior	Fire piping	Red	0.00
27-Mar-17	91	Exterior	2" fire piping	Red	0.00
27-Mar-17	92	Exterior	Northwest rollup door frame	Beige	<b>4.00</b>
27-Mar-17	93	Exterior	Southwest rollup door frame	Beige	<b>2.20</b>
27-Mar-17	94	Exterior	West rollup metal door	Beige	0.15
27-Mar-17	95	Exterior	West metal wall	Beige	0.20
27-Mar-17	96	Exterior	Concrete burn	Green	0.00
27-Mar-17	97	Exterior	Concrete burn frame	Green	0.00
27-Mar-17	98	Exterior	Concrete west wall	White	0.00
27-Mar-17	99	Exterior	Railing behind engine 4	White	0.00
27-Mar-17	100	Exterior	Railing	White	0.05
27-Mar-17	101	Exterior	I beam for exhaust	Grey	0.00
27-Mar-17	102	Exterior	Exhaust stack base	Beige	0.00
27-Mar-17	103	Exterior	Exhaust stack	Beige	0.00
27-Mar-17	105	Exterior	Top of exhaust stack	White	0.00
27-Mar-17	106	Exterior	I beam structural steel	White	0.00
27-Mar-17	107	Exterior	Railing	White	0.00
27-Mar-17	108	Exterior	Catwalk angle bar	White	0.50
<b>Lead-Based Paint</b>					
<i>Lead-Containing Paint</i>					
<b>Bold</b> denotes lead concentrations greater than 1.0 mg/cm <sup>2</sup> .					
<i>Italics</i> denotes lead concentrations less than 1.0 mg/cm <sup>2</sup> .					
<LOD=not detected as a concentration exceeding the limit of detection.					



**TABLE 1. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE DEDEDO DIESEL POWER PLANT**

<b>Date</b>	<b>Shot No.</b>	<b>Location</b>	<b>Description</b>	<b>Color</b>	<b>Analytical Results (mg/cm<sup>2</sup>)</b>
27-Mar-17	109	Exterior	Water tank below engines 2/3	White	0.00
27-Mar-17	110	Exterior	Water tank north wall	White	0.00
27-Mar-17	111	Exterior	Water tank north of engine	White	<b>2.00</b>
27-Mar-17	112	Exterior	Water tank north of engine	White	<b>3.00</b>
27-Mar-17	113	Exterior	South roof hang over	White	0.00
27-Mar-17	114	Exterior	South roof hang over	Green	0.01
27-Mar-17	115	Exterior	South roof trimming	Green	0.00
27-Mar-17	118	Exterior	South roof trimming face	Green	0.00
27-Mar-17	120	Interior	Support	Beige	<LOD
27-Mar-17	121	Interior	Siding	White	<LOD
27-Mar-17	122	Interior	Siding	Black	<LOD
27-Mar-17	123	Interior	Z-channel	White	<b>2.40</b>
27-Mar-17	124	Interior	Z-channel	White	<LOD
27-Mar-17	125	Interior	Z-channel	White	<LOD
27-Mar-17	126	Interior	Z-channel	White	<LOD
27-Mar-17	127	Interior	Z-channel	White	<LOD
27-Mar-17	128	Interior	Z-channel	White	<b>1.90</b>
27-Mar-17	129	Interior	Z-channel	Beige	<LOD
27-Mar-17	130	Interior	Vertical beam	Beige	<LOD
27-Mar-17	131	Interior	Vertical beam	Beige	<LOD
<b>Lead-Based Paint</b>					
<i>Lead-Containing Paint</i>					
<b>Bold</b> denotes lead concentrations greater than 1.0 mg/cm <sup>2</sup> .					
<i>Italics</i> denotes lead concentrations less than 1.0 mg/cm <sup>2</sup> .					
<LOD=not detected as a concentration exceeding the limit of detection.					



**TABLE 1. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE DEDEDO DIESEL POWER PLANT**

<b>Date</b>	<b>Shot No.</b>	<b>Location</b>	<b>Description</b>	<b>Color</b>	<b>Analytical Results (mg/cm<sup>2</sup>)</b>
27-Mar-17	132	Interior	Z-channel	Beige	<LOD
27-Mar-17	133	Interior	Vertical beam	Beige	<LOD
27-Mar-17	134	Interior	Generic ETS System	Grey	<LOD
27-Mar-17	135	Interior	Transformer	Grey	<LOD
27-Mar-17	136	Interior	Power box	Grey	<LOD
27-Mar-17	137	Interior	Double ___ Safety	Grey	<LOD
27-Mar-17	138	Interior	Electrical panel	Grey	<LOD
27-Mar-17	139	Interior	DD24 panel box	Grey	<LOD
27-Mar-17	140	Interior	Switch panel	Grey	<LOD
27-Mar-17	141	Interior	West interior wall	White	<LOD
27-Mar-17	142	Interior	Interior wall trim	Black	<LOD
27-Mar-17	143	Interior	South interior wall	White	<LOD
27-Mar-17	144	Interior	South interior trim	Red	<LOD
27-Mar-17	145	Interior	East interior wall battery room	White	<LOD
27-Mar-17	146	Interior	Diamond deck plate	Green	<LOD
27-Mar-17	147	Interior	Post	Yellow	<LOD
27-Mar-17	148	Interior	Tank fire supplier	Red	<LOD
27-Mar-17	149	Interior	Pipe above suppliers tank	Red	<LOD
27-Mar-17	150	Interior	Pipe above fire	Red	<LOD
27-Mar-17	151	Interior	Beam	White	<b>1.40</b>
<b>Lead-Based Paint</b>					
<i>Lead-Containing Paint</i>					
<b>Bold</b> denotes lead concentrations greater than 1.0 mg/cm <sup>2</sup> .					
<i>Italics</i> denotes lead concentrations less than 1.0 mg/cm <sup>2</sup> .					
<LOD=not detected as a concentration exceeding the limit of detection.					



**TABLE 1. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE DEDEDO DIESEL POWER PLANT**

<b>Date</b>	<b>Shot No.</b>	<b>Location</b>	<b>Description</b>	<b>Color</b>	<b>Analytical Results (mg/cm<sup>2</sup>)</b>
27-Mar-17	152	Interior	Metal door frame	Brown	<LOD
27-Mar-17	153	Interior	Wood door	White	<LOD
27-Mar-17	154	Interior	South wall interior engine room	White	<LOD
27-Mar-17	155	Interior	Beam	White	<b>1.30</b>
27-Mar-17	156	Interior	Interior wall	White	<LOD
27-Mar-17	157	Interior	Wood door	Grey	<LOD
27-Mar-17	158	Interior	Metal door frame	Brown	<LOD
27-Mar-17	159	Interior	Beam	White	<b>1.00</b>
27-Mar-17	160	Interior	Metal door frame	White	<LOD
27-Mar-17	161	Interior	Wood door	White	<LOD
27-Mar-17	162	Interior	Interior wall	White	<LOD
27-Mar-17	163	Interior	Beam	White	<b>1.20</b>
27-Mar-17	164	Interior	Wood door frame	White	<LOD
27-Mar-17	165	Interior	Wood door	White	<LOD
27-Mar-17	167	Interior	South wall	White	<LOD
27-Mar-17	168	Interior	Beam at east end	Beige	<b>1.80</b>
27-Mar-17	169	Interior	East interior Z-beam	White	<LOD
27-Mar-17	170	Interior	Interior metal siding	White	<LOD
27-Mar-17	171	Interior	Siding	Black	<LOD
27-Mar-17	172	Interior	Z-channel	Beige	<b>2.70</b>
<b>Lead-Based Paint</b>					
<i>Lead-Containing Paint</i>					
<b>Bold</b> denotes lead concentrations greater than 1.0 mg/cm <sup>2</sup> .					
<i>Italics</i> denotes lead concentrations less than 1.0 mg/cm <sup>2</sup> .					
<LOD=not detected as a concentration exceeding the limit of detection.					



**TABLE 1. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE DEDEDO DIESEL POWER PLANT**

<b>Date</b>	<b>Shot No.</b>	<b>Location</b>	<b>Description</b>	<b>Color</b>	<b>Analytical Results (mg/cm<sup>2</sup>)</b>
27-Mar-17	173	Interior	Z-channel	Beige	<LOD
27-Mar-17	174	Interior	Interior beam	Beige	<b>3.50</b>
27-Mar-17	175	Interior	Fuel line at northeast interior	Yellow	<LOD
27-Mar-17	176	Interior	Beam	Beige	<LOD
27-Mar-17	177	Interior	Compressed line	Yellow	<b>1.20</b>
27-Mar-17	178	Interior	East compressed line	Yellow	<i>0.70</i>
27-Mar-17	179	Interior	East compressed line	Yellow	<b>2.10</b>
27-Mar-17	180	Interior	Northeast beam	Beige	<LOD
27-Mar-17	181	Interior	Z-channel	Beige	<LOD
27-Mar-17	182	Interior	North interior siding	White	<LOD
27-Mar-17	183	Interior	Siding	Black	<LOD
27-Mar-17	184	Interior	North side beam	White	<LOD
27-Mar-17	185	Interior	North side beam face	Beige	<LOD
27-Mar-17	186	Interior	North side beam	Beige	<LOD
27-Mar-17	187	Interior	North Z-channel	Beige	<i>0.70</i>
27-Mar-17	188	Interior	Compressed pipe	Yellow	<b>1.50</b>
27-Mar-17	189	Interior	Door beam	Beige	<b>1.90</b>
27-Mar-17	190	Interior	North siding	White	<LOD
27-Mar-17	191	Interior	Z-channel	Beige	<b>1.50</b>
27-Mar-17	192	Interior	Compressed line	Yellow	<i>0.70</i>
<b>Lead-Based Paint</b>					
<i>Lead-Containing Paint</i>					
<b>Bold</b> denotes lead concentrations greater than 1.0 mg/cm <sup>2</sup> .					
<i>Italics</i> denotes lead concentrations less than 1.0 mg/cm <sup>2</sup> .					
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**TABLE 1. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE DEDEDO DIESEL POWER PLANT**

<b>Date</b>	<b>Shot No.</b>	<b>Location</b>	<b>Description</b>	<b>Color</b>	<b>Analytical Results (mg/cm<sup>2</sup>)</b>
27-Mar-17	193	Interior	North beam	Beige	<b>1.10</b>
27-Mar-17	195	Interior	Z-beam	Beige	<b>3.90</b>
27-Mar-17	196	Interior	North beam	Beige	<LOD
27-Mar-17	197	Interior	Interior north beam	Yellow	<LOD
27-Mar-17	198	Interior	Z-channel	Beige	<LOD
27-Mar-17	199	Interior	Interior siding	Black	<LOD
27-Mar-17	200	Interior	Interior beam	White	<b>2.10</b>
27-Mar-17	201	Interior	West Z-channel	Beige	<b>2.00</b>
27-Mar-17	202	Interior	Storage tank	Yellow	<LOD
27-Mar-17	203	Interior	Tank frame	Grey	<LOD
27-Mar-17	205	Interior	Tank cross beam	Grey	<LOD
27-Mar-17	206	Interior	Z-channel near storage tank	Beige	<b>2.90</b>
27-Mar-17	207	Interior	Tank railing	Grey	<LOD
27-Mar-17	208	Interior	Tank 1	Yellow	<b>2.00</b>
27-Mar-17	209	Interior	Tank 2	Yellow	<LOD
27-Mar-17	210	Interior	Tank 3	Yellow	<i>0.90</i>
27-Mar-17	211	Interior	Tank 3	Yellow	<b>1.30</b>
27-Mar-17	212	Interior	North face Z-channel	Beige	<b>1.70</b>
27-Mar-17	213	Interior	Fuel line	Yellow	<b>2.20</b>
27-Mar-17	214	Generator 4	CW line	Grey	<LOD
<b>Lead-Based Paint</b>					
<i>Lead-Containing Paint</i>					
<b>Bold</b> denotes lead concentrations greater than 1.0 mg/cm <sup>2</sup> .					
<i>Italics</i> denotes lead concentrations less than 1.0 mg/cm <sup>2</sup> .					
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**TABLE 1. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE DEDEDO DIESEL POWER PLANT**

<b>Date</b>	<b>Shot No.</b>	<b>Location</b>	<b>Description</b>	<b>Color</b>	<b>Analytical Results (mg/cm<sup>2</sup>)</b>
27-Mar-17	215	Generator 4	Foundation	Grey	<LOD
27-Mar-17	216	Generator 4	Foundation	Grey	<b>1.30</b>
27-Mar-17	217	Generator 4	Fuel line	Yellow	<LOD
27-Mar-17	218	Generator 4	Fuel tank	Yellow	<LOD
27-Mar-17	219	Generator 4	Fuel tank	Yellow	<LOD
27-Mar-17	220	Generator 4	Filter	Grey	<LOD
27-Mar-17	221	Generator 4	Filter frame	Grey	<LOD
27-Mar-17	222	Generator 4	Foundation	Orange	<b>3.30</b>
27-Mar-17	223	Generator 4	Platform frame	Yellow	<b>2.10</b>
27-Mar-17	224	Generator 4	Platform wood	Yellow	<LOD
27-Mar-17	225	Generator 4	Platform wood	Red	<LOD
27-Mar-17	226	Generator 4	Cylinder motor	Grey	<LOD
27-Mar-17	227	Generator 4	Generator shroud	Grey	<LOD
27-Mar-17	228	Generator 4	Generator motor	Grey	<LOD
27-Mar-17	229	Generator 4	Top of motor	Silver	<LOD
27-Mar-17	230	Generator 4	Top of motor	Silver	<LOD
27-Mar-17	231	Generator 4	Wood box	Red	<LOD
27-Mar-17	232	Generator 3	Generator shovel	Grey	<LOD
27-Mar-17	233	Generator 3	Vent	Yellow	<LOD
27-Mar-17	234	Generator 3		Grey	<LOD
<b>Lead-Based Paint</b>					
<i>Lead-Containing Paint</i>					
<b>Bold</b> denotes lead concentrations greater than 1.0 mg/cm <sup>2</sup> .					
<i>Italics</i> denotes lead concentrations less than 1.0 mg/cm <sup>2</sup> .					
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**TABLE 1. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE DEDEDO DIESEL POWER PLANT**

<b>Date</b>	<b>Shot No.</b>	<b>Location</b>	<b>Description</b>	<b>Color</b>	<b>Analytical Results (mg/cm<sup>2</sup>)</b>
27-Mar-17	235	Generator 3	Motor	Grey	<LOD
27-Mar-17	236	Generator 3	Pipe	Grey	<LOD
27-Mar-17	237	Generator 3	Control panel	Grey	<LOD
27-Mar-17	238	Generator 3	Platform frame	Yellow	<LOD
27-Mar-17	239	Generator 3	CW pipe	White	<LOD
27-Mar-17	240	Generator 3	Foundation	Grey	<LOD
27-Mar-17	241	Generator 3	Bracket for water filter	Grey	0.80
27-Mar-17	242	Generator 3	Top of water	Silver	<LOD
27-Mar-17	243	Generator 3	Generator engine	Grey	<LOD
27-Mar-17	244	Generator 3	Housing	Grey	<LOD
27-Mar-17	245	Generator 2	Wood box	Red	<LOD
27-Mar-17	246	Generator 2	Foundation	Grey	<LOD
27-Mar-17	247	Generator 2	Generator box	Grey	<LOD
27-Mar-17	248	Generator 2	Platform frame	Yellow	<LOD
27-Mar-17	249	Generator 2	Top of motor	Silver	<LOD
27-Mar-17	250	Generator 2	Generator motor	Grey	<LOD
27-Mar-17	251	Generator 2	Control panel	Grey	<LOD
27-Mar-17	252	Generator 2	CW pipe	White	<LOD
27-Mar-17	253	Generator 2	Fuel tank	Yellow	<LOD
27-Mar-17	254	Generator 2	Fuel tank	Yellow	<LOD
<b>Lead-Based Paint</b>					
<i>Lead-Containing Paint</i>					
<b>Bold</b> denotes lead concentrations greater than 1.0 mg/cm <sup>2</sup> .					
<i>Italics</i> denotes lead concentrations less than 1.0 mg/cm <sup>2</sup> .					
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**TABLE 1. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE DEDEDO DIESEL POWER PLANT**

<b>Date</b>	<b>Shot No.</b>	<b>Location</b>	<b>Description</b>	<b>Color</b>	<b>Analytical Results (mg/cm<sup>2</sup>)</b>
27-Mar-17	255	Generator 2	Foundation	Grey	<LOD
27-Mar-17	256	Generator 1	Box	Red	<LOD
27-Mar-17	257	Generator 1	Foundation	Grey	<LOD
27-Mar-17	258	Generator 1	Vent	Yellow	<LOD
27-Mar-17	259	Generator 1	Foundation	Grey	<LOD
27-Mar-17	260	Generator 1	Platform	Yellow	<LOD
27-Mar-17	261	Generator 1	Control panel	Grey	<LOD
27-Mar-17	263	Generator 1	Foundation	Grey	<LOD
27-Mar-17	264	Generator 1	CW pipe	White	<LOD
27-Mar-17	265	Generator 1	Fuel tank	Yellow	<LOD
27-Mar-17	266	Generator 1	Top of motor	Silver	<LOD
27-Mar-17	267	Generator 1	Motor	Grey	<LOD
27-Mar-17	268	Generator 1	Side of motor	Grey	<LOD
27-Mar-17	269	Interior	Generator 1 footbridge over cooling water pipe	Yellow	<LOD
27-Mar-17	270	Interior	Footbridge over generator 2	Yellow	<LOD
27-Mar-17	271	Interior	Footbridge over generator 3	Yellow	<LOD
27-Mar-17	272	Interior	Footbridge over generator 4	Yellow	<LOD
27-Mar-17	273	Interior	Control room entry way from generator building	White	<LOD
27-Mar-17	274	Interior	Gypsum beam	White	<LOD
<b>Lead-Based Paint</b>					
<i>Lead-Containing Paint</i>					
<b>Bold</b> denotes lead concentrations greater than 1.0 mg/cm <sup>2</sup> .					
<i>Italics</i> denotes lead concentrations less than 1.0 mg/cm <sup>2</sup> .					
<LOD=not detected as a concentration exceeding the limit of detection.					



**TABLE 1. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE DEDEDO DIESEL POWER PLANT**

<b>Date</b>	<b>Shot No.</b>	<b>Location</b>	<b>Description</b>	<b>Color</b>	<b>Analytical Results (mg/cm<sup>2</sup>)</b>
27-Mar-17	275	Interior	Wood door jam	Red	<LOD
27-Mar-17	276	Interior	Wood door	White	<LOD
27-Mar-17	277	Interior	West wall control wall	White	<LOD
27-Mar-17	278	Interior	South wood lower trim	Red	<LOD
27-Mar-17	279	Interior	South control room wall	White	<LOD
27-Mar-17	280	Interior	Exit metal door jam	Red	<LOD
27-Mar-17	281	Interior	Metal exit door	White	<LOD
27-Mar-17	282	Interior	Interior east control wall	White	<LOD
27-Mar-17	283	Interior	Gypsum north wall	White	<LOD
27-Mar-17	284	Interior	Concrete north wall	White	<LOD
27-Mar-17	286	Interior	North lower wall trim	Red	<LOD
27-Mar-17	287	Interior	Wood door	White	<LOD
27-Mar-17	288	Interior	Wood door frame	Red	<LOD
27-Mar-17	289	Interior	Gypsum entry wall	White	<LOD
27-Mar-17	290	Interior	Concrete entry wall	White	<LOD
27-Mar-17	291	Restaurant	Concrete wall	White	<LOD
27-Mar-17	292	Restaurant	South wall	White	<LOD
27-Mar-17	293	Restaurant	East wall	White	<LOD
27-Mar-17	294	Restaurant	North wall	White	<LOD
27-Mar-17	295	Kitchen/Office	Concrete wall	White	<LOD
<b>Lead-Based Paint</b>					
<i>Lead-Containing Paint</i>					
<b>Bold</b> denotes lead concentrations greater than 1.0 mg/cm <sup>2</sup> .					
<i>Italics</i> denotes lead concentrations less than 1.0 mg/cm <sup>2</sup> .					
<LOD=not detected as a concentration exceeding the limit of detection.					



**TABLE 1. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE DEDEDO DIESEL POWER PLANT**

<b>Date</b>	<b>Shot No.</b>	<b>Location</b>	<b>Description</b>	<b>Color</b>	<b>Analytical Results (mg/cm<sup>2</sup>)</b>
27-Mar-17	296	Kitchen/Office	Gypsum wall	White	<LOD
27-Mar-17	297	Kitchen/Office	Bathroom ceiling	Grey	<LOD
27-Mar-17	298	Kitchen/Office	Platform frame	Yellow	<LOD
27-Mar-17	299	Kitchen/Office	Top of motor	Silver	<LOD
27-Mar-17	300	Kitchen/Office	Generator motor	Grey	<b>2.40</b>
27-Mar-17	301	Kitchen/Office	Control panel	Grey	<b>4.60</b>
27-Mar-17	302	Kitchen/Office	CW pipe	White	<LOD
27-Mar-17	303	Kitchen/Office	Fuel tank	Yellow	<LOD
27-Mar-17	304	Kitchen/Office	Fuel tank	Yellow	<LOD
27-Mar-17	305	Kitchen/Office	Foundation	Grey	<LOD
27-Mar-17	306	Kitchen/Office	Storage room trim	Black	<LOD
27-Mar-17	307	Kitchen/Office	West kitchen wall	White	<LOD
27-Mar-17	308	Kitchen/Office	South kitchen wall	White	<LOD
27-Mar-17	309	Kitchen/Office	East kitchen wall	White	<LOD
27-Mar-17	310	Kitchen/Office	North kitchen wall	White	<LOD
27-Mar-17	311	Kitchen/Office	Gypsum kitchen wall	White	<LOD
27-Mar-17	312	Kitchen/Office	Door frame	Brown	<LOD
27-Mar-17	313	Kitchen/Office	East office wall	White	<LOD
27-Mar-17	314	Kitchen/Office	North office wall	White	<LOD
27-Mar-17	315	Kitchen/Office	West office wall	White	<LOD
<b>Lead-Based Paint</b>					
<i>Lead-Containing Paint</i>					
<b>Bold</b> denotes lead concentrations greater than 1.0 mg/cm <sup>2</sup> .					
<i>Italics</i> denotes lead concentrations less than 1.0 mg/cm <sup>2</sup> .					
<LOD=not detected as a concentration exceeding the limit of detection.					



**TABLE 1. LEAD-BASE AND LEAD-CONTAINING PAINT SURVEY AT THE DEDEDO DIESEL POWER PLANT**

<b>Date</b>	<b>Shot No.</b>	<b>Location</b>	<b>Description</b>	<b>Color</b>	<b>Analytical Results (mg/cm<sup>2</sup>)</b>
27-Mar-17	316	Kitchen/Office	South office wall	White	<LOD
27-Mar-17	317	Kitchen/Office	Kitchen ceiling	White	<LOD
27-Mar-17	318	Kitchen/Office	Battery room ceiling	White	<LOD
27-Mar-17	319	Kitchen/Office	Storage room ceiling	White	<LOD
<b>Lead-Based Paint</b>					
<i>Lead-Containing Paint</i>					
<b>Bold</b> denotes lead concentrations greater than 1.0 mg/cm <sup>2</sup> .					
<i>Italics</i> denotes lead concentrations less than 1.0 mg/cm <sup>2</sup> .					
<LOD=not detected as a concentration exceeding the limit of detection.					

**TABLE 2. SUMMARY OF CONTAINERIZED HAZARDOUS SUBSTANCES/  
REGULATED MATERIALS AT THE DEDEDO DIESEL POWER PLANT**

Location	Contents	Quantity	Units
Dededo Power Plant	2500 Extension acrylic latex paint	2	gal
Dededo Power Plant	3% AFFF (55 gal)	3	ea
Dededo Power Plant	5W-30 Motor Oil	3	qt
Dededo Power Plant	Car battery	1	ea
Dededo Power Plant	ELSY Stripping agent	5	gal
Dededo Power Plant	Enamel interior undercoat	1	gal
Dededo Power Plant	Fire Extinguisher (10 lbs.)	1	ea
Dededo Power Plant	Fire Extinguisher (30 lbs.)	7	ea
Dededo Power Plant	Large Nitrogen tanks (FM200) Liquified UN3296 Heptafluoropropane	2	ea
Dededo Power Plant	Lubricant	15	ea
Dededo Power Plant	Mobil DTE Oil Heavy Medium	5	gal
Dededo Power Plant	Mobil grease	5	gal
Dededo Power Plant	New Kohlar 150 Power (w/ 2 batteries each)	4	ea
Dededo Power Plant	Oil based paint	0.5	gal
Dededo Power Plant	Omega liquid sealant	5	qt
Dededo Power Plant	Omega Lubricant	5	gal
Dededo Power Plant	Paint (5 gal)	6	ea
Dededo Power Plant	Setting high temp bonding	5	gal
Dededo Power Plant	Shell Caprinus XR40 Oil (55 gal)	2	ea
Dededo Power Plant	Unknown	11	gal



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TABLE 3. PCB SOIL SAMPLE RESULTS, DEDEDO POWER PLANT, GUAM.

Analyte	Analytical Method	CASRN	Units	TPESLs <sup>1</sup>	Sample Identifier		DDP-S001		DDP-S002		DDP-S003		DDP-S004		DDP-S005		DDP-S006		
					Sample Date	Lab Report ID	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	
<b>Polychlorinated biphenyls (PCBs)</b>																			
Aroclor-1016	SW8082	12674-11-2	mg/kg	NS	0.021	U	0.021	U	0.021	U	0.021	U	0.021	U	0.021	U	0.021	U	
Aroclor-1221	SW8082	11104-28-2	mg/kg	NS	0.042	U	0.042	U	0.042	U	0.042	U	0.042	U	0.042	U	0.042	U	
Aroclor-1232	SW8082	11141-16-5	mg/kg	NS	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	
Aroclor-1242	SW8082	53469-21-9	mg/kg	NS	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	
Aroclor-1248	SW8082	12672-29-6	mg/kg	NS	0.032	U	0.032	U	0.032	U	0.032	U	0.032	U	0.032	U	0.032	U	
Aroclor-1254	SW8082	11097-69-1	mg/kg	NS	0.15		0.15		0.14		0.28		0.14		0.074		0.065		
Aroclor-1260	SW8082	11096-82-5	mg/kg	NS	0.030	U	0.030	U	0.030	U	0.030	U	0.075		0.038	J	0.030	U	
Aroclor-1262	SW8082	37324-23-5	mg/kg	NS	0.034	U	0.034	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	
Aroclor-1268	SW8082	11100-14-4	mg/kg	NS	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	
Total PCBs	SW8082	1336-36-3	mg/kg	9.8	0.15		0.15		0.042	U	0.28		0.22		0.11		0.065		

Notes:

**Results shown in bold and highlighted blue equal or exceed the screening criteria.**

<sup>1</sup> TPESLs - Tropical Pacific Environmental Screening Levels for shallow soils (<3 meters below ground surface) where groundwater IS NOT a current or potential source of drinking water, commercial/industrial land use only (updated December 2016) from Table B.

CASRN = Chemical Abstracts Service Registry Number  
 mg/kg = milligram(s) per kilogram

Q = qualifier

Data Qualifiers:

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the detection limit





TABLE 3. PCB SOIL SAMPLE RESULTS, DEDEDO POWER PLANT, GUAM.

Analyte	Analytical Method	CASRN	Units	TPESLs <sup>1</sup>	DDP-S007 10-May-2017 17-05-1776		DDP-S008 10-May-2017 17-05-1776		DDP-S009 10-May-2017 17-05-1776		DDP-S010 10-May-2017 17-05-1776		DDP-S011 (Dup of S008) 10-May-2017 17-05-1776	
					Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
<b>Polychlorinated biphenyls (PCBs)</b>														
Aroclor-1016	SW8082	12674-11-2	mg/kg	NS	0.021	U	0.021	U	0.021	U	0.21	U	0.021	U
Aroclor-1221	SW8082	11104-28-2	mg/kg	NS	0.042	U	0.042	U	0.042	U	0.42	U	0.042	U
Aroclor-1232	SW8082	11141-16-5	mg/kg	NS	0.025	U	0.025	U	0.025	U	0.25	U	0.025	U
Aroclor-1242	SW8082	53469-21-9	mg/kg	NS	0.037	U	0.037	U	0.037	U	0.37	U	0.037	U
Aroclor-1248	SW8082	12672-29-6	mg/kg	NS	0.032	U	0.032	U	0.032	U	0.32	U	0.032	U
Aroclor-1254	SW8082	11097-69-1	mg/kg	NS	0.032	U	0.032	U	0.34		4.2		0.032	U
Aroclor-1260	SW8082	11096-82-5	mg/kg	NS	0.030	U	0.030	U	0.030	U	0.030	U	0.030	U
Aroclor-1262	SW8082	37324-23-5	mg/kg	NS	0.035	U	0.035	U	0.035	U	0.35	U	0.035	U
Aroclor-1268	SW8082	11100-14-4	mg/kg	NS	0.033	U	0.033	U	0.033	U	0.33	U	0.033	U
Total PCBs	SW8082	1336-36-3	mg/kg	9.8	0.042	U	0.042	U	0.34		4.2		0.042	U

Notes:

**Results shown in bold and highlighted blue equal or exceed the screening criteria.**

<sup>1</sup> TPESLs - Tropical Pacific Environmental Screening Levels for shallow soils (<3 meters below ground surface) where groundwater IS NOT a current or potential source of drinking water, commercial/industrial land use only (updated December 2016) from Table B.

CASRN = Chemical Abstracts Service Registry Number  
mg/kg = milligram(s) per kilogram

Q = qualifier

Data Qualifiers:

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the detection limit



## **FIGURES**



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kinhla Path: \\HONOLULU\External\GIS\Guam\2017\Deededo\Figure 1 Site Map.mxd

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors

0 50 100 200 Feet

**Figure 1**  
**Site Location**  
**Dededo Power Plant**



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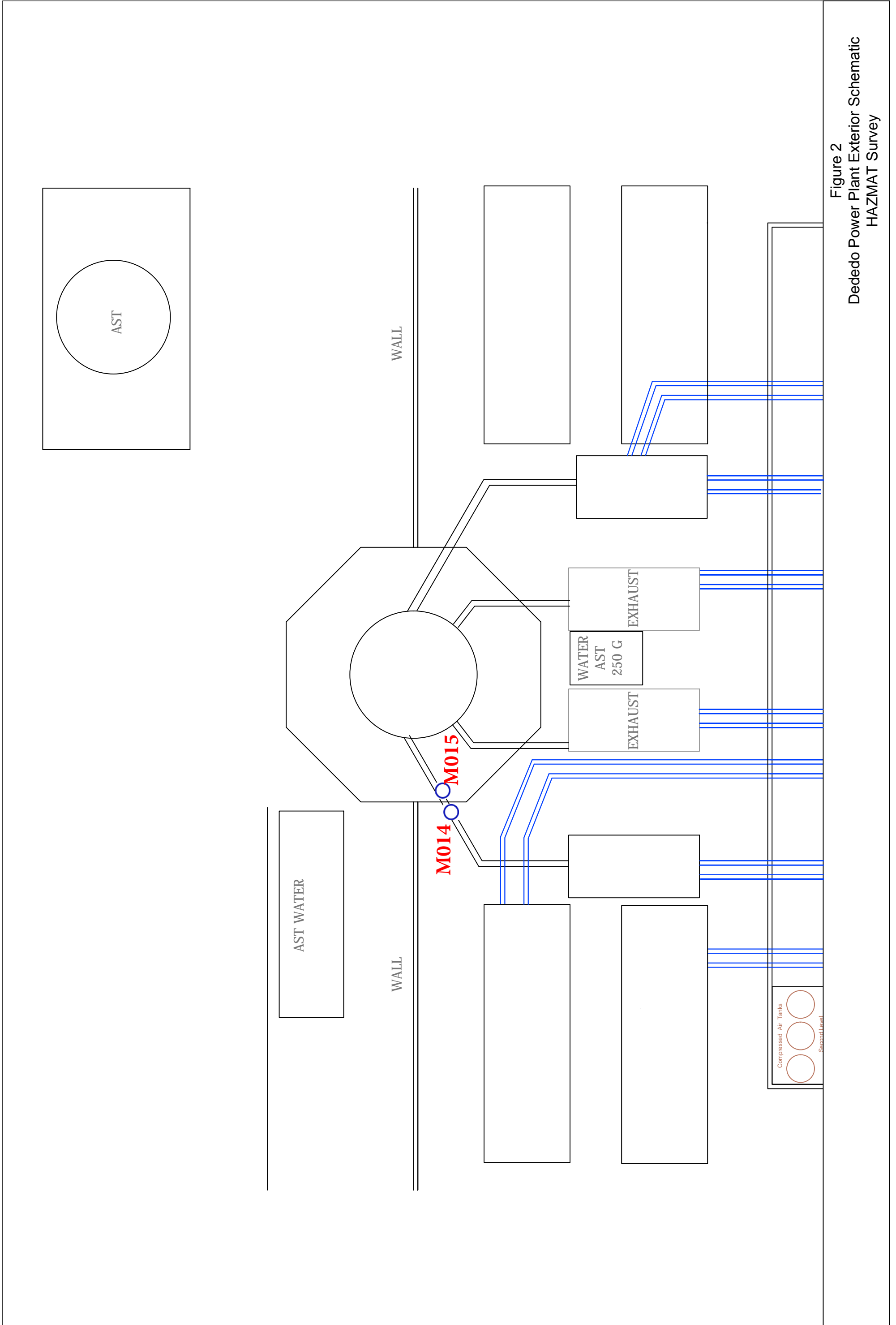


Figure 2  
Dededo Power Plant Exterior Schematic  
HAZMAT Survey



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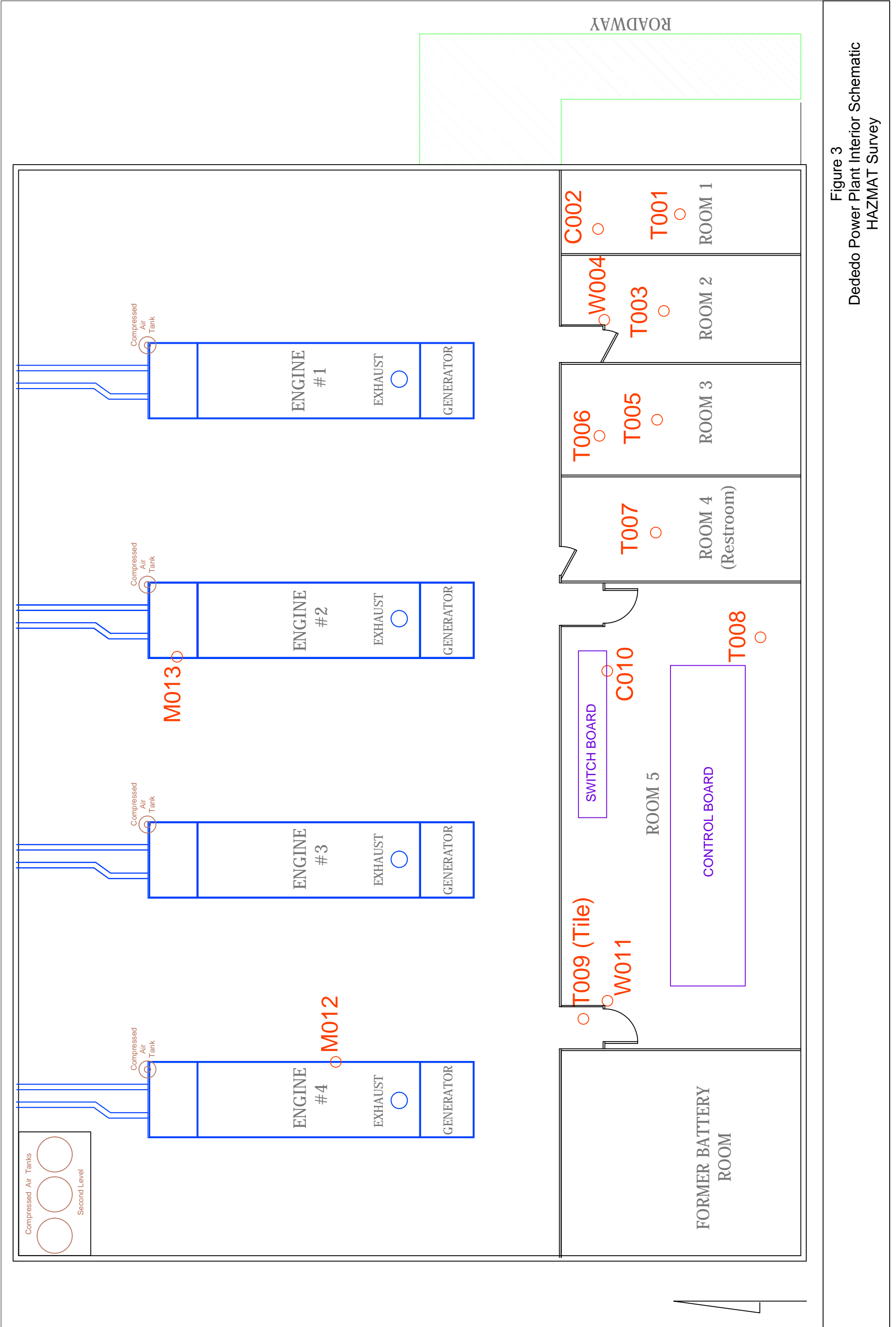


Figure 3  
Dededo Power Plant Interior Schematic  
HAZMAT Survey

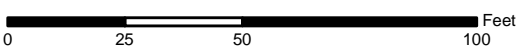
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k:\hishia Path: \HONOLULU\External\GIS\Guam\2017\Deededo\Figure 2 Sample Location.mxd

◆ Sample Locations  
— Stain Area

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



**Figure 4**  
**Sample Location**  
**Dededo Power Plant**



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**APPENDIX A**  
**ACM INSPECTION REPORT**



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# ASBESTOS INSPECTION REPORT

## *Guam Power Authority – Dededo Diesel Power Plant*

Inspection Date: March 28, 2017

Report Date: June 7, 2017



**Prepared For:**

EA Engineering, Science, and Technology, Inc  
1001 Army Drive, Suite 103  
Barrigada, Guam 96913-1402  
(671) 646-5231

**Prepared By:**

Industrial Hygiene Professionals, Inc.  
P.O. Box 5086  
Hagåtña, Guam 96932  
Tel/Fax: (671) 734-0749



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APPENDIX A – ASBESTOS LABORATORY REPORT AND CHAIN-OF-CUSTODY FORM

APPENDIX B – INSPECTOR AND LABORATORY CERTIFICATIONS

## 1.0 PURPOSE AND SCOPE

The purpose of this inspection was to identify asbestos-containing materials (ACM) in the Guam Power Authority Dededo Diesel Power Plant in Dededo, Guam prior to renovation/demolition activities. The scope entailed the inspection of the interior and immediate exterior of the power plant.

## 2.0 METHODS

### 2.1 Asbestos Containing Materials (ACM)

A total of fifteen (15) samples from thirteen (13) homogeneous sampling areas were collected by an EPA-Accredited Asbestos Building Inspector. A homogeneous area is an area which is uniform by color, texture, construction/application date, and general appearance. Table 1 below includes details of the samples collected:

**Table 1. Summary of Sampled Materials – GPA Dededo Diesel Power Plant – March 28, 2017**

SAMPLE ID	SAMPLE DESCRIPTION	HOMOGENEOUS AREA
DDP-T001	FLOOR TILES/MASTIC - ROOM 1 - 176SF	A
DDP-C002	ACOUSTIC CEILING TILES - ROOM 1 - 176SF	B
DDP-T003	FLOOR TILES/MASTIC - ROOM 2 - 240SF	C
DDP-W004	GYPSUM/JOINT COMPOUND - ROOM 2 - 100SF	D
DDP-T005	FLOOR TILES/MASTIC - ROOM 3 (ENTRANCE) - 20SF	E
DDP-T006	FLOOR TILES/MASTIC - ROOM 3 (MAIN) - 183SF	F
DDP-T007	FLOOR TILES/MASTIC - RESTROOM (ROOM 4) - 203SF	G
DDP-T008	FLOOR TILES/MASTIC - CONTROL ROOM (ROOM 5) - 630SF	H
DDP-T009	FLOOR TILES/MASTIC - CONTROL ROOM (ROOM 5) - 630SF	
DDP-C010	ACOUSTIC CEILING TILES - CONTROL ROOM (ROOM 5) - 630SF	I
DDP-W011	GYPSUM/JOINT COMPOUND - CONTROL ROOM (ROOM 5) - 200SF	J
DDP-M012	INSULATION MATERIAL - GENERATOR 4 EXHAUST (INTERIOR, FALLEN) - UNKNOWN	K
DDP-M013	GASKET MATERIAL - GENERATOR 2 -"H20 IN" - UNKNOWN	L
DDP-M014	INSULATION MATERIAL - GENERATOR 4 EXHAUST (EXTERIOR) - UNKNOWN	M
DDP-M015	INSULATION MATERIAL - GENERATOR 4 EXHAUST (EXTERIOR) - UNKNOWN	

Each layer of a material counts as a separate sample (analysis) at the laboratory. For example, a vinyl floor tile with adhering mastic counts as two samples (two separate analyses). For the purpose of this inspection, floor tiles and the associated mastics were considered one homogeneous area for sampling and sample identification.

The samples were shipped with chain-of-custody forms to an American Industrial Hygiene Association (AIHA)/National Voluntary Lab Accreditation Program (NVLAP) accredited laboratory (Schneider Laboratories, Richmond, VA) for analysis by polarized light microscopy (PLM). Samples containing greater than one percent (> 1%) asbestos are reported as asbestos-containing materials (ACM).

## 3.0 RESULTS

### 3.1 Asbestos Containing Materials (ACM)

The results indicate that asbestos is not present in any of the materials tested. The complete laboratory results and chain-of custody form are included in Appendix A.

## 4.0 RECOMMENDATIONS

### 4.1 Asbestos Containing Materials (ACM)

The U.S. EPA National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations (40 CFR subpart M, part 61) require the removal of friable forms of asbestos and non-friable forms that may be rendered friable as a result of renovation/demolition activities. Friability refers to the ability to crumble, pulverize, or reduce to powder by hand pressure. OSHA regulates exposure to all types of asbestos in construction and general industry (29 CFR 1926.1101 and 29 CFR 1910.1001 respectively).

Since there were no ACM identified in the building, no specific recommendations are applicable.

## 5.0 DISCLAIMER

It should be noted that the surveys should not be interpreted to imply that no other asbestos-containing materials exist in the building. Only areas reasonably accessible without damaging government property were evaluated during this inspection and representative samples were collected from each identified homogeneous area. Inaccessible asbestos-containing materials, for example, could be present beneath floors, behind walls, in hidden crawl spaces, or as part of the sewer system in the form of transite piping. As a matter of necessity, inspectors must identify homogeneous areas based on similar appearance and/or date of application. In some cases these materials which appear to be the same, may in fact be different. Any hidden suspect materials which are identified during renovation or demolition activities which may not be identified in this report should be analyzed. Except for those areas/components/materials actually sampled which tested negative for suspected contaminants, it is recommended that all suspect fibrous materials uncovered during renovations be considered as potentially hazardous and handled accordingly until analyzed by an accredited laboratory.

## 6.0 REFERENCES

1. **Occupational Safety and Health Administration:** U.S. Code of Federal Regulations Vol. 29 Part 1926.1101.
2. **U.S. Environmental Protection Agency:** *Asbestos in Buildings Simplified Sampling Scheme for Friable Surfacing Materials*. Washington, DC: U.S. Environmental Protection Agency, 1985.
3. **U.S. Environmental Protection Agency:** U.S. Code of Federal Regulations Vol. 40 Subpart M, Part 61.
4. **U.S. Environmental Protection Agency:** U.S. Code of Federal Regulations Vol. 40 Subpart 763.

## 7.0 BUILDING INSPECTOR SIGNATURE

This building inspection and creation of this report were performed/prepared by:



Franco L. Quintans, CIH, CSP, OHST

**APPENDIX A**

**ASBESTOS LABORATORY  
REPORTS AND COMPLETED  
CHAIN OF CUSTODY FORMS**



## Analysis Report

## Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117  
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

**Customer:** Industrial Hygiene Professionals, Inc. (2755)  
**Address:** P. O. Box 5086  
Hagatna, GU 96913

<b>Order #:</b>	207916
-----------------	--------

**Attn:**  
**Project:** EA  
**Location:** Dededo Diesel Power Plant  
**Number:** ACM

**Received** 03/31/17  
**Analyzed** 04/02/17  
**Reported** 04/03/17

**PO Number:**

**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

Sample ID	Collected	Cust. ID	Location	Asbestos Fibers	Other Materials
<b>207916-001</b>	03/28/17	DDP-T001	Room 1 - 176SF		
Layer 1:	Floor Tile			None Detected	100% NON FIBROUS MATERIAL
	Off White, Organically Bound				
Layer 2:	Mastic			None Detected	100% NON FIBROUS MATERIAL
	Yellow, Soft				
<b>207916-002</b>	03/28/17	DDP-C002	Room 1 - 176SF		
Layer 1:	Ceiling Tile			None Detected	40% CELLULOSE FIBER
	White, Fibrous				20% FOAMED GLASS
					30% MINERAL/GLASS WOOL
					10% NON FIBROUS MATERIAL
<b>207916-003</b>	03/28/17	DDP-T003	Room 2 - 240SF		
Layer 1:	Floor Tile			None Detected	100% NON FIBROUS MATERIAL
	Gray, Organically Bound				
Layer 2:	Mastic			None Detected	100% NON FIBROUS MATERIAL
	Yellow, Soft				
<b>207916-004</b>	03/28/17	DDP-W004	Room 2 - 100SF		
Layer 1:	Gypsum Board			None Detected	3% CELLULOSE FIBER
	White, Powdery				97% NON FIBROUS MATERIAL
Layer 2:	Joint Compound			None Detected	100% NON FIBROUS MATERIAL
	White, Granular				
<b>207916-005</b>	03/28/17	DDP-T005	Room 3 Entrance - 20SF		
Layer 1:	Floor Tile			None Detected	100% NON FIBROUS MATERIAL
	Gray, Organically Bound				
Layer 2:	Mastic			None Detected	100% NON FIBROUS MATERIAL
	Yellow, Soft				

Reporting Limit: 1% Gravimetrically Reduced Reporting Limit: 0.01% PLM analysis is based on Visual Estimation and NESHAP recommends that any asbestos content less than 10 percent be verified by PLM Point Count or TEM Analysis. The EPA recommends that any vermiculite should be treated as Asbestos Containing Material (ACM). This report must not be reproduced except in full with the approval of the laboratory. The test results reported relate only to the samples submitted.

Method: EPA 600/R-93/116 &amp; 600/M4-82-020

## PLM Analysis

Sample ID	Collected	Cust. ID	Location	Asbestos Fibers	Other Materials
<b>207916-006</b>	03/28/17	DDP-T006	Room 3 Main - 183SF		
Layer 1:	Floor Tile			None Detected	100% NON FIBROUS MATERIAL
	Off White, Organically Bound				
Layer 2:	Mastic			None Detected	100% NON FIBROUS MATERIAL
	Yellow, Soft				
<b>207916-007</b>	03/28/17	DDP-T007	Restroom Room 4 - 203SF		
Layer 1:	Floor Tile			None Detected	100% NON FIBROUS MATERIAL
	Gray, Organically Bound				
Layer 2:	Mastic			None Detected	100% NON FIBROUS MATERIAL
	Yellow, Soft				
<b>207916-008</b>	03/28/17	DDP-T008	Control Room Rm 5 - 630SF		
Layer 1:	Floor Tile			None Detected	100% NON FIBROUS MATERIAL
	Gray, Organically Bound				
Layer 2:	Mastic			None Detected	100% NON FIBROUS MATERIAL
	Yellow, Soft				
<b>207916-009</b>	03/28/17	DDP-T009	Control Room Rm 5 - 630SF		
Layer 1:	Floor Tile			None Detected	100% NON FIBROUS MATERIAL
	Gray, Organically Bound				
Layer 2:	Mastic			None Detected	100% NON FIBROUS MATERIAL
	Yellow, Soft				
<b>207916-010</b>	03/28/17	DDP-C010	Control Room Rm 5 - 630SF		
Layer 1:	Ceiling Tile			None Detected	40% CELLULOSE FIBER
	White, Fibrous				20% FOAMED GLASS
					30% MINERAL/GLASS WOOL
					10% NON FIBROUS MATERIAL
<b>207916-011</b>	03/28/17	DDP-W011	Control Room Rm 5 - 200SF		
Layer 1:	Gypsum Board			None Detected	3% CELLULOSE FIBER
	White, Powdery				97% NON FIBROUS MATERIAL
Layer 2:	Joint Compound			None Detected	100% NON FIBROUS MATERIAL
	White, Granular				
<b>207916-012</b>	03/28/17	DDP-M012	Generator 4 Interior		
Layer 1:	Insulation			None Detected	90% MINERAL/GLASS WOOL
	Yellow, Fibrous				10% NON FIBROUS MATERIAL

Reporting Limit: 1% Gravimetrically Reduced Reporting Limit: 0.01% PLM analysis is based on Visual Estimation and NESHAP recommends that any asbestos content less than 10 percent be verified by PLM Point Count or TEM Analysis. The EPA recommends that any vermiculite should be treated as Asbestos Containing Material (ACM). This report must not be reproduced except in full with the approval of the laboratory. The test results reported relate only to the samples submitted.

Method: EPA 600/R-93/116 & 600/M4-82-020

**PLM Analysis**

Sample ID	Collected	Cust. ID	Location	Asbestos Fibers	Other Materials
<b>207916-013</b>	03/28/17	DDP-M013	Generator 2		
Layer 1:	Gasket Tan, Fibrous			None Detected	20% CELLULOSE FIBER 10% NON FIBROUS MATERIAL 70% SYNTHETIC FIBER
<b>207916-014</b>	03/28/17	DDP-M014	Generator 4 Exterior		
Layer 1:	Insulation Gray, Fibrous			None Detected	90% MINERAL/GLASS WOOL 10% NON FIBROUS MATERIAL
<b>207916-015</b>	03/28/17	DDP-M015	Generator 4 Exterior		
Layer 1:	Insulation Gray, Brittle			None Detected	100% NON FIBROUS MATERIAL

EPA Regulatory Limit: 1%  
Total layers analyzed on order: 24

207916-04/03/17 02:48 PM



Analyst **Elsamani Abdelfadiel**



Reviewed By: **Charles Lynch**  
Data Management

Reporting Limit: 1% Gravimetrically Reduced Reporting Limit: 0.01% PLM analysis is based on Visual Estimation and NESHAP recommends that any asbestos content less than 10 percent be verified by PLM Point Count or TEM Analysis. The EPA recommends that any vermiculite should be treated as Asbestos Containing Material (ACM). This report must not be reproduced except in full with the approval of the laboratory. The test results reported relate only to the samples submitted.



**SCHNEIDER LABORATORIES GLOBAL, INC.**

2512 West Cary Street, Richmond, Virginia 23220-5117

804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

WO Label:

207916



S 15

V:207\207916

fghraizi

3/31/2017 1:11:00 PM

DHL

Submitting Co. <b>INDUSRTRIAL HYGIENE PROFESSIONALS, INC.</b>	Lab Use- WO #	Phone # Fax # & E-mail	<b>671 734-0749</b> <b>jack@ihpguam.com</b> <b>franco@ihpguam.com</b>
P.O. BOX 5086 HAGATNA, GU 96932	Acct # <b>2755</b>		

Project Name: **EA** Special Instructions [include requests for special reporting or data packages]

Project Location: **DEDEDO DIESEL POWER PLANT**

Project Number: **ACM**

PO Number: \_\_\_\_\_ State Of Collection: **GUAM**

Turn-Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input checked="" type="checkbox"/> 2 business day* <input type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals &amp; weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input checked="" type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input type="checkbox"/> Soil	<b>Asbestos Air / Fiber Counts</b> <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/> _____ <b>Miscellaneous Tests</b> <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> _____	<b>Asbestos Bulk / Asb&gt;ID</b> <input checked="" type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.1/4.6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/> _____ <b>FOR ASBESTOS AIR:</b> TYPE OF RESPIRATOR USED: _____	<b>Metals-Total Conc.</b> <input type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> _____ <input type="checkbox"/> _____ <b>Metals-Extract</b> <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) <input type="checkbox"/> _____ <b>Others</b> <input type="checkbox"/> _____

SAMPLE ID	TIME	DATE	INITIALS	SAMPLE DESCRIPTION
DDP-T001	9:30	3/28/2017	FQ	FLOOR TILES/MASTIC - ROOM 1 - 176SF
DDP-C002	9:37	3/28/2017	FQ	ACOUSTIC CEILING TILES - ROOM 1 - 176SF
DDP-T003	9:41	3/28/2017	FQ	FLOOR TILES/MASTIC - ROOM 2 - 240SF
DDP-W004	9:45	3/28/2017	FQ	GYPSTUM/JOINT COMPOUND - ROOM 2 - 100SF
DDP-T005	9:47	3/28/2017	FQ	FLOOR TILES/MASTIC - ROOM 3 (ENTRANCE) - 20SF
DDP-T006	9:50	3/28/2017	FQ	FLOOR TILES/MASTIC - ROOM 3 (MAIN) - 183SF
DDP-T007	9:55	3/28/2017	FQ	FLOOR TILES/MASTIC - RESTROOM (ROOM 4) - 203SF
DDP-T008	9:59	3/28/2017	FQ	FLOOR TILES/MASTIC - CONTROL ROOM (ROOM 5) - 630SF
DDP-T009	10:03	3/28/2017	FQ	FLOOR TILES/MASTIC - CONTROL ROOM (ROOM 5) - 630SF
DDP-C010	10:05	3/28/2017	FQ	ACOUSTIC CEILING TILES - CONTROL ROOM (ROOM 5) - 630SF
DDP-W011	10:07	3/28/2017	FQ	GYPSTUM/JOINT COMPOUND - CONTROL ROOM (ROOM 5) - 200SF
DDP-M012	10:13	3/28/2017	FQ	INSULATION MATERIAL - GENERATOR 4 EXHAUST (INTERIOR, FALLEN) - UNKNOWN
DDP-M013	10:25	3/28/2017	FQ	GASKET MATERIAL - GENERATOR 2 - "H2O IN" - UNKNOWN
DDP-M014	10:45	3/28/2017	FQ	INSULATION MATERIAL - GENERATOR 4 EXHAUST (EXTERIOR) - UNKNOWN
DDP-M015	10:45	3/28/2017	FQ	INSULATION MATERIAL - GENERATOR 4 EXHAUST (EXTERIOR) - UNKNOWN

Sampled by NAME <u>  Franco Quintans  </u> SIGNATURE <u>[Signature]</u> DATE/TIME <u>  03/28/17  </u>	Relinquished to lab by NAME <u>  Franco Quintans  </u> SIGNATURE <u>[Signature]</u> DATE/TIME <u>  03/28/17  </u>	<input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: _____
--	--	--

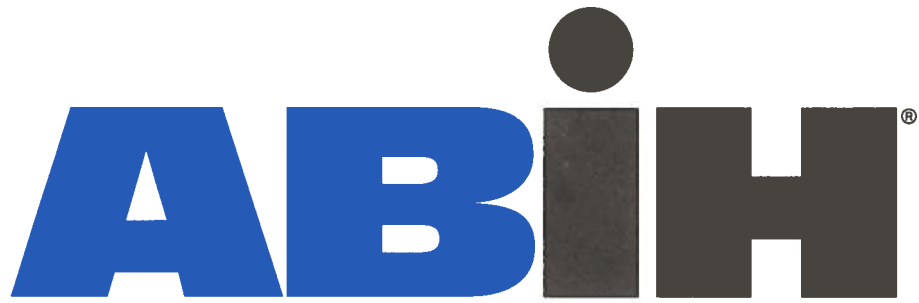


**APPENDIX B**

**INSPECTOR AND**

**LABORATORY**

**CERTIFICATIONS**



**american board of industrial hygiene®**

**organized to improve the practice of industrial hygiene  
proclaims that**

*Franco L. Quintans*

**having met all requirements of  
education, experience and examination,  
is hereby certified in the**

**COMPREHENSIVE PRACTICE  
of  
INDUSTRIAL HYGIENE**

**and has the right to use the designations**

**CERTIFIED INDUSTRIAL HYGIENIST**

**CIH**

<b>Certificate Number</b>	<b>10802 CP</b>
<b>Awarded:</b>	<b>May 29, 2015</b>
<b>Expiration Date:</b>	<b>December 1, 2020</b>



*Nicole Gresson*  
\_\_\_\_\_  
Chair, ABIH

*Allen K. Olson*  
\_\_\_\_\_  
Chief Executive Officer, ABIH



# Big Apple Occupational Safety Inc.

505 Eighth Avenue, New York, New York 10018  
212-564-7656

This is to certify that

*Franco Quintans*

SS#: xxx-xx-8970

has successfully completed the 8 hours EPA approved Asbestos Contractor/Supervisor Refresher Training Course and passed the examination for purpose of accreditation required under 206 of Title II of the Toxic Substances Control Act (TSCA) conducted by Big Apple Occupational Safety Corp. at Guam

## Asbestos Inspector Refresher

Course Date: 09/19/2016

Examination Date: 09/19/2016

Expiration Date: 09/19/2017

Certificate Number: IR-8970

Examination Grade: 96%

Radha Reddy  
Training Director

United States Department of Commerce  
National Institute of Standards and Technology



**Certificate of Accreditation to ISO/IEC 17025:2005**

NVLAP LAB CODE: 101150-0

**Schneider Laboratories Global, Inc.**  
Richmond, VA

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:*

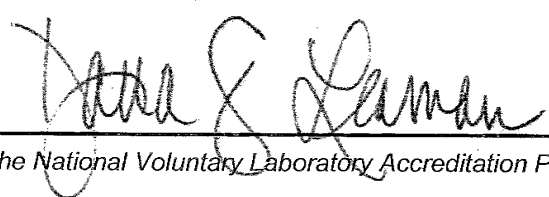
**Asbestos Fiber Analysis**

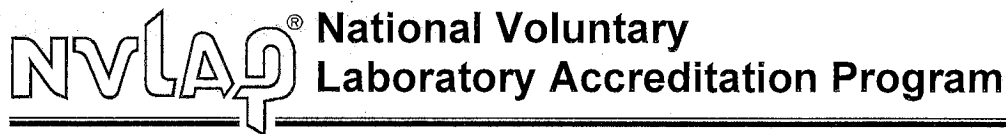
*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2017-04-01 through 2018-03-31

Effective Dates



  
For the National Voluntary Laboratory Accreditation Program



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**Schneider Laboratories Global, Inc.**

2512 W. Cary Street  
Richmond, VA 23220-5117  
Ms. Irma Faszewski  
Phone: 804-353-6778 Fax: 804-359-1475  
Email: ifaszewski@slabinc.com  
<http://www.slabinc.com>

**ASBESTOS FIBER ANALYSIS**

**NVLAP LAB CODE 101150-0**

**Bulk Asbestos Analysis**

<u>Code</u>	<u>Description</u>
18/A01	EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

A handwritten signature in black ink, appearing to read "Irma Faszewski".

For the National Voluntary Laboratory Accreditation Program



**APPENDIX B**  
**PHOTO LOG**



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***LBP Survey***





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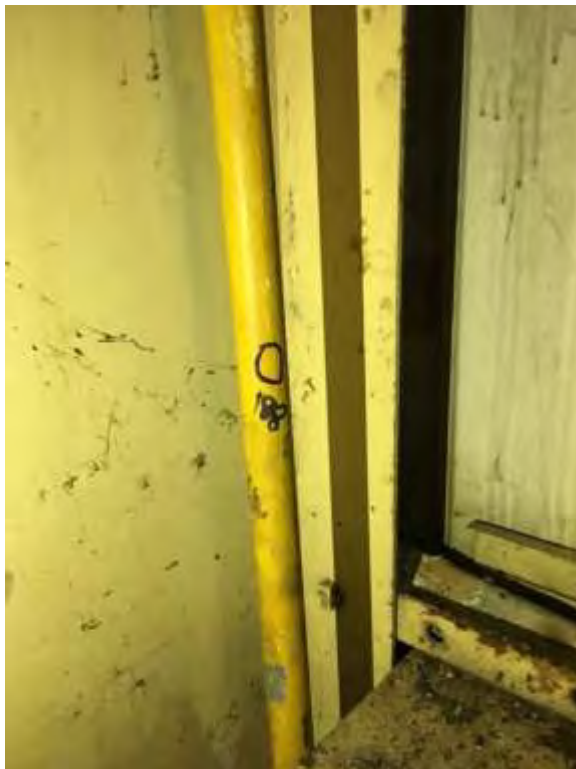
*Hazardous Materials Survey Data Report for Dededo Diesel Power Plant*



Yellow metal beam



White beam



Yellow compressed pipe



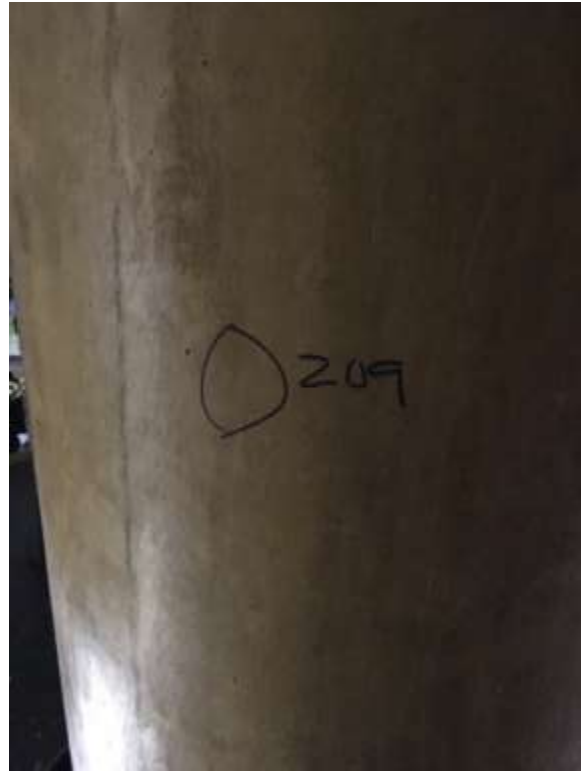
Door beam



Hazardous Materials Survey Data Report for Dededo Diesel Power Plant



Roll-up door



Tank 2



Grey foundation



Yellow platform



*Hazardous Materials Survey Data Report for Dededo Diesel Power Plant*



Beige Z channel



Beige interior beam



Orange foundation



Yellow platform frame



*Hazardous Materials Survey Data Report for Dededo Diesel Power Plant*



Old metal foundation



Concrete support



Water tank north of engine No. 4



Roll-up door frame



## ***Soil Sample Collection***



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*Hazardous Materials Survey Data Report for Dededo Diesel Power Plant*



Soil Sampling



Soil Sampling



Soil Sample Location



Soil Sample Collection at Oil Stained Location





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**APPENDIX C**

**LABORATORY RESULTS AND CHAIN OF CUSTODY RECORDS**

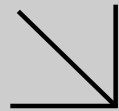


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Supplemental Report 2

The original report has been revised/corrected.

**WORK ORDER NUMBER: 17-05-1776***The difference is service*

AIR | SOIL | WATER | MARINE CHEMISTRY

**Analytical Report For****Client:** EA Engineering**Client Project Name:** Hazmat Survey - GPA 93156.01**Attention:** Brenda Nuding  
615 Piikoi Street  
Suite 515  
Honolulu, HI 96814-3116

---

 Approved for release on 07/21/2017 by:  
 Carla Hollowell  
 Project Manager

ResultLink ▶

Email your PM ▶

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

# Contents

Client Project Name: Hazmat Survey - GPA 93156.01  
 Work Order Number: 17-05-1776

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2	17-05-1776 Level III Case Narrative. . . . .	4
3	Sample Summary. . . . .	6
4	Client Sample Data. . . . .	7
	4.1 EPA 8082 PCB Aroclors (Solid). . . . .	7
5	Quality Control Sample Data. . . . .	19
	5.1 MS/MSD. . . . .	19
	5.2 LCS/LCSD. . . . .	21
6	Glossary of Terms and Qualifiers. . . . .	23
7	Chain-of-Custody/Sample Receipt Form. . . . .	24
8	17-05-1776 Level III Data Package. . . . .	29

**Condition Upon Receipt:**

Samples were received under Chain-of-Custody (COC) on 05/23/17. They were assigned to Work Order 17-05-1776.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

**Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

**Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

**Additional Comments:**

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

## Case Narrative

Client Project Name: Hazmat Survey - GPA 93156.01  
 Work Order Number: 17-05-1776

### CONDITION UPON RECEIPT:

Eurofins Calscience, Inc. received 22 solid samples on May 23, 2017. A total of 22 containers were received in good condition at a temperature of 2.1°C, within the recommended temperature criteria of 0°C – 6°C.

Client Sample ID	Lab Sample ID	Date & Time Sampled	Date & Time Received
DDP-S001	17-05-1776-1	05/10/17 14:22	05/23/17 10:10
DDP-S002	17-05-1776-2	05/10/17 14:25	05/23/17 10:10
DDP-S003	17-05-1776-3	05/10/17 14:29	05/23/17 10:10
DDP-S004	17-05-1776-4	05/10/17 14:32	05/23/17 10:10
DDP-S005	17-05-1776-5	05/10/17 14:34	05/23/17 10:10
DDP-S006	17-05-1776-6	05/10/17 14:38	05/23/17 10:10
DDP-S007	17-05-1776-7	05/10/17 14:41	05/23/17 10:10
DDP-S008	17-05-1776-8	05/10/17 14:44	05/23/17 10:10
DDP-S009	17-05-1776-9	05/10/17 14:50	05/23/17 10:10
DDP-S010	17-05-1776-10	05/10/17 14:52	05/23/17 10:10
DDP-S011	17-05-1776-11	05/10/17 14:00	05/23/17 10:10
TP-S001	17-05-1776-12	05/12/17 11:27	05/23/17 10:10
TP-S002	17-05-1776-13	05/12/17 11:32	05/23/17 10:10
TP-S003	17-05-1776-14	05/12/17 11:38	05/23/17 10:10
TP-S004	17-05-1776-15	05/12/17 11:45	05/23/17 10:10
TP-S005	17-05-1776-16	05/12/17 11:47	05/23/17 10:10
TP-S006	17-05-1776-17	05/12/17 11:51	05/23/17 10:10
TP-S007	17-05-1776-18	05/12/17 12:04	05/23/17 10:10
TP-S008	17-05-1776-19	05/12/17 12:10	05/23/17 10:10
TP-S009	17-05-1776-20	05/12/17 12:13	05/23/17 10:10
TP-S010	17-05-1776-21	05/12/17 12:18	05/23/17 10:10
TP-S011	17-05-1776-22	05/12/17 11:25	05/23/17 10:10

Return to Contents

### DATA SUMMARY:

Pursuant to the chain-of-custody document, the samples were analyzed using the following methodologies:

- EPA 8082 PCB Aroclors

All samples were analyzed within the suggested EPA holding time for the requested methods unless otherwise noted.

Sample results were reported in the RL format.

Any dilutions made to the sample(s) and/or QC will be noted in the following narrative. Reporting limits have been adjusted accordingly.

## Case Narrative

Client Project Name: Hazmat Survey - GPA 93156.01  
Work Order Number: 17-05-1776

Any manual integration made to the data will be noted in the following narrative. The initial and amended chromatograms have been included in the data package.

All samples and analytical QC are within acceptance criteria unless otherwise noted.

### EPA 8082 PCB Aroclors:

Samples -1 through -22 were analyzed for PCB Aroclors using EPA Method 8082. The samples were prepared on 05/23/17 and analyzed on 05/25 - 26/17 in batch # 170523L12 / 170523S12 on GC 58 and 170523L13 / 170523S13 on GC 31.

Sample results were reported from the primary column (ECD2 B).

### Initial Calibration and Initial Calibration Verification:

- ICAL on 05/19/17 on GC 31:

The ICAL was within the 20% RSD acceptance criteria and the ICV was within the 15% D acceptance criteria for Aroclors 1016 and 1260 on the primary column. Single point response factors were generated for all other Aroclors.

- ICAL on 05/23/17 on GC 58:

The ICAL was within the 20% RSD acceptance criteria and the ICV was within the 15% D acceptance criteria for Aroclors 1254 on the primary column.

### Continuing Calibration Verification:

All values were within the 15% D acceptance criteria.

### Sample and QC:

- QC Batch # 170523L12 / 170523S12: (Associated with samples -1 through -20)

The method blank was non-detect; the LCS and surrogate recoveries were within acceptance criteria.

Sample -1 was used for the MS/MSD; the MS/MSD % recoveries and MS/MSD RPDs for Aroclor-1016 and /or Aroclor-1260 were above the method control limits due to suspected sample matrix interference.

The following dilutions were performed and reported:

Sample -10:	10x	Sample -12:	10x
-------------	-----	-------------	-----

Manual integration was performed on one or more samples to correct the peak ID and/or baseline integration.

- QC Batch # 170523L13 / 170523S13: (Associated with samples -21 and -22)

Sample -22 was used for the MS/MSD. The method blank was non-detect; the LCS, MS/MSD, and surrogate recoveries were within acceptance criteria except for the MS and MSD % recoveries for Aroclor-1260, which were above the method control limits due to suspected sample matrix interference.



## Sample Summary

Client: EA Engineering	Work Order:	17-05-1776
615 Piikoi Street, Suite 515	Project Name:	Hazmat Survey - GPA 93156.01
Honolulu, HI 96814-3116	PO Number:	16405
	Date/Time Received:	05/23/17 10:10
	Number of Containers:	22

Attn: Brenda Nuding

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
DDP-S001	17-05-1776-1	05/10/17 14:22	1	Solid
DDP-S002	17-05-1776-2	05/10/17 14:25	1	Solid
DDP-S003	17-05-1776-3	05/10/17 14:29	1	Solid
DDP-S004	17-05-1776-4	05/10/17 14:32	1	Solid
DDP-S005	17-05-1776-5	05/10/17 14:34	1	Solid
DDP-S006	17-05-1776-6	05/10/17 14:38	1	Solid
DDP-S007	17-05-1776-7	05/10/17 14:41	1	Solid
DDP-S008	17-05-1776-8	05/10/17 14:44	1	Solid
DDP-S009	17-05-1776-9	05/10/17 14:50	1	Solid
DDP-S010	17-05-1776-10	05/10/17 14:52	1	Solid
DDP-S011	17-05-1776-11	05/10/17 14:00	1	Solid
TP-S001	17-05-1776-12	05/12/17 11:27	1	Solid
TP-S002	17-05-1776-13	05/12/17 11:32	1	Solid
TP-S003	17-05-1776-14	05/12/17 11:38	1	Solid
TP-S004	17-05-1776-15	05/12/17 11:45	1	Solid
TP-S005	17-05-1776-16	05/12/17 11:47	1	Solid
TP-S006	17-05-1776-17	05/12/17 11:51	1	Solid
TP-S007	17-05-1776-18	05/12/17 12:04	1	Solid
TP-S008	17-05-1776-19	05/12/17 12:10	1	Solid
TP-S009	17-05-1776-20	05/12/17 12:13	1	Solid
TP-S010	17-05-1776-21	05/12/17 12:18	1	Solid
TP-S011	17-05-1776-22	05/12/17 11:25	1	Solid

## Analytical Report

EA Engineering	Date Received:	05/23/17
615 Piikoi Street, Suite 515	Work Order:	17-05-1776
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: Hazmat Survey - GPA 93156.01

Page 1 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DDP-S001	17-05-1776-1-A	05/10/17 14:22	Solid	GC 58	05/23/17	05/25/17 19:50	170523L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	150	50	31	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	34	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	85	24-168	
2,4,5,6-Tetrachloro-m-Xylene	62	25-145	

DDP-S002	17-05-1776-2-A	05/10/17 14:25	Solid	GC 58	05/23/17	05/25/17 20:08	170523L12
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	86	24-168	
2,4,5,6-Tetrachloro-m-Xylene	61	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

EA Engineering  
615 Piikoi Street, Suite 515  
Honolulu, HI 96814-3116

Date Received: 05/23/17  
Work Order: 17-05-1776  
Preparation: EPA 3545  
Method: EPA 8082  
Units: ug/kg

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DDP-S003	17-05-1776-3-A	05/10/17 14:29	Solid	GC 58	05/23/17	05/25/17 20:26	170523L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	280	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	92	24-168	
2,4,5,6-Tetrachloro-m-Xylene	72	25-145	

DDP-S004	17-05-1776-4-A	05/10/17 14:32	Solid	GC 58	05/23/17	05/25/17 20:44	170523L12
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	140	50	32	1.00	
Aroclor-1260	75	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	24-168	
2,4,5,6-Tetrachloro-m-Xylene	66	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

EA Engineering  
 615 Piikoi Street, Suite 515  
 Honolulu, HI 96814-3116

Date Received: 05/23/17  
 Work Order: 17-05-1776  
 Preparation: EPA 3545  
 Method: EPA 8082  
 Units: ug/kg

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DDP-S005	17-05-1776-5-A	05/10/17 14:34	Solid	GC 58	05/23/17	05/25/17 21:02	170523L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	74	50	32	1.00	
Aroclor-1260	38	50	30	1.00	J
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	67	24-168	
2,4,5,6-Tetrachloro-m-Xylene	55	25-145	

DDP-S006	17-05-1776-6-A	05/10/17 14:38	Solid	GC 58	05/23/17	05/25/17 21:20	170523L12
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	65	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	88	24-168	
2,4,5,6-Tetrachloro-m-Xylene	72	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

EA Engineering  
615 Piikoi Street, Suite 515  
Honolulu, HI 96814-3116

Date Received: 05/23/17  
Work Order: 17-05-1776  
Preparation: EPA 3545  
Method: EPA 8082  
Units: ug/kg

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DDP-S007	17-05-1776-7-A	05/10/17 14:41	Solid	GC 58	05/23/17	05/25/17 21:38	170523L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	54	24-168	
2,4,5,6-Tetrachloro-m-Xylene	82	25-145	

DDP-S008	17-05-1776-8-A	05/10/17 14:44	Solid	GC 58	05/23/17	05/25/17 21:56	170523L12
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	44	24-168	
2,4,5,6-Tetrachloro-m-Xylene	44	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

EA Engineering  
 615 Piikoi Street, Suite 515  
 Honolulu, HI 96814-3116

Date Received: 05/23/17  
 Work Order: 17-05-1776  
 Preparation: EPA 3545  
 Method: EPA 8082  
 Units: ug/kg

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>DDP-S009</b>	<b>17-05-1776-9-A</b>	<b>05/10/17 14:50</b>	<b>Solid</b>	<b>GC 58</b>	<b>05/23/17</b>	<b>05/25/17 22:14</b>	<b>170523L12</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	340	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	81	24-168	
2,4,5,6-Tetrachloro-m-Xylene	61	25-145	

DDP-S010	17-05-1776-10-A	05/10/17 14:52	Solid	GC 58	05/23/17	05/26/17 16:52	170523L12
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	500	210	10.0	
Aroclor-1221	ND	500	420	10.0	
Aroclor-1232	ND	500	250	10.0	
Aroclor-1242	ND	500	370	10.0	
Aroclor-1248	ND	500	320	10.0	
Aroclor-1254	4200	500	320	10.0	
Aroclor-1260	ND	500	300	10.0	
Aroclor-1262	ND	500	350	10.0	
Aroclor-1268	ND	500	330	10.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	91	24-168	
2,4,5,6-Tetrachloro-m-Xylene	75	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

EA Engineering	Date Received:	05/23/17
615 Piikoi Street, Suite 515	Work Order:	17-05-1776
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DDP-S011	17-05-1776-11-A	05/10/17 14:00	Solid	GC 58	05/23/17	05/25/17 22:50	170523L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	50	24-168	
2,4,5,6-Tetrachloro-m-Xylene	68	25-145	

TP-S001	17-05-1776-12-A	05/12/17 11:27	Solid	GC 58	05/23/17	05/26/17 17:10	170523L12
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	500	210	10.0	
Aroclor-1221	ND	500	420	10.0	
Aroclor-1232	ND	500	250	10.0	
Aroclor-1242	ND	500	370	10.0	
Aroclor-1248	ND	500	320	10.0	
Aroclor-1254	2200	500	320	10.0	
Aroclor-1260	1700	500	300	10.0	
Aroclor-1262	ND	500	350	10.0	
Aroclor-1268	ND	500	330	10.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	58	24-168	
2,4,5,6-Tetrachloro-m-Xylene	51	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

EA Engineering  
615 Piikoi Street, Suite 515  
Honolulu, HI 96814-3116

Date Received: 05/23/17  
Work Order: 17-05-1776  
Preparation: EPA 3545  
Method: EPA 8082  
Units: ug/kg

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TP-S002	17-05-1776-13-A	05/12/17 11:32	Solid	GC 58	05/23/17	05/25/17 23:25	170523L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	640	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	24-168	
2,4,5,6-Tetrachloro-m-Xylene	68	25-145	

TP-S003	17-05-1776-14-A	05/12/17 11:38	Solid	GC 58	05/23/17	05/25/17 23:43	170523L12
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	93	50	31	1.00	
Aroclor-1260	280	50	30	1.00	
Aroclor-1262	ND	50	34	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	81	24-168	
2,4,5,6-Tetrachloro-m-Xylene	60	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

EA Engineering  
615 Piikoi Street, Suite 515  
Honolulu, HI 96814-3116

Date Received: 05/23/17  
Work Order: 17-05-1776  
Preparation: EPA 3545  
Method: EPA 8082  
Units: ug/kg

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TP-S004	17-05-1776-15-A	05/12/17 11:45	Solid	GC 58	05/23/17	05/26/17 00:01	170523L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	42	50	32	1.00	J
Aroclor-1260	160	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	80	24-168	
2,4,5,6-Tetrachloro-m-Xylene	65	25-145	

TP-S005	17-05-1776-16-A	05/12/17 11:47	Solid	GC 58	05/23/17	05/26/17 00:19	170523L12
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	370	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	24-168	
2,4,5,6-Tetrachloro-m-Xylene	79	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

EA Engineering  
615 Piikoi Street, Suite 515  
Honolulu, HI 96814-3116

Date Received: 05/23/17  
Work Order: 17-05-1776  
Preparation: EPA 3545  
Method: EPA 8082  
Units: ug/kg

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TP-S006	17-05-1776-17-A	05/12/17 11:51	Solid	GC 58	05/23/17	05/26/17 00:37	170523L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	54	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	79	24-168	
2,4,5,6-Tetrachloro-m-Xylene	55	25-145	

TP-S007	17-05-1776-18-A	05/12/17 12:04	Solid	GC 58	05/23/17	05/26/17 00:55	170523L12
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	170	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	67	24-168	
2,4,5,6-Tetrachloro-m-Xylene	55	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

EA Engineering  
 615 Piikoi Street, Suite 515  
 Honolulu, HI 96814-3116

Date Received: 05/23/17  
 Work Order: 17-05-1776  
 Preparation: EPA 3545  
 Method: EPA 8082  
 Units: ug/kg

Project: Hazmat Survey - GPA 93156.01

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>TP-S008</b>	<b>17-05-1776-19-A</b>	<b>05/12/17 12:10</b>	<b>Solid</b>	<b>GC 58</b>	<b>05/23/17</b>	<b>05/26/17 01:13</b>	<b>170523L12</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	86	24-168	
2,4,5,6-Tetrachloro-m-Xylene	76	25-145	

TP-S009	17-05-1776-20-A	05/12/17 12:13	Solid	GC 58	05/23/17	05/26/17 01:31	170523L12
---------	-----------------	-------------------	-------	-------	----------	-------------------	-----------

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	36	50	30	1.00	J
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	88	24-168	
2,4,5,6-Tetrachloro-m-Xylene	54	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

EA Engineering  
615 Piikoi Street, Suite 515  
Honolulu, HI 96814-3116

Date Received: 05/23/17  
Work Order: 17-05-1776  
Preparation: EPA 3545  
Method: EPA 8082  
Units: ug/kg

Project: Hazmat Survey - GPA 93156.01

Page 11 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TP-S010	17-05-1776-21-A	05/12/17 12:18	Solid	GC 31	05/23/17	05/25/17 11:37	170523L13

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	31	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	34	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	111	24-168	
2,4,5,6-Tetrachloro-m-Xylene	101	25-145	

TP-S011	17-05-1776-22-A	05/12/17 11:25	Solid	GC 31	05/23/17	05/25/17 11:56	170523L13
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	520	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	121	24-168	
2,4,5,6-Tetrachloro-m-Xylene	91	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

EA Engineering	Date Received:	05/23/17
615 Piikoi Street, Suite 515	Work Order:	17-05-1776
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
	Units:	ug/kg

Project: Hazmat Survey - GPA 93156.01

Page 12 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-15-959-203</b>	<b>N/A</b>	<b>Solid</b>	<b>GC 58</b>	<b>05/23/17</b>	<b>05/25/17 18:20</b>	<b>170523L12</b>

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	109	24-168	
2,4,5,6-Tetrachloro-m-Xylene	80	25-145	

Method Blank	099-15-959-200	N/A	Solid	GC 31	05/23/17	05/25/17 10:42	170523L13
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	113	24-168	
2,4,5,6-Tetrachloro-m-Xylene	89	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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**Quality Control - Spike/Spike Duplicate**

EA Engineering  
615 Piikoi Street, Suite 515  
Honolulu, HI 96814-3116

Date Received: 05/23/17  
Work Order: 17-05-1776  
Preparation: EPA 3545  
Method: EPA 8082

Project: Hazmat Survey - GPA 93156.01

Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
TP-S011	Sample	Solid	GC 31	05/23/17	05/25/17 11:56	170523S13
TP-S011	Matrix Spike	Solid	GC 31	05/23/17	05/25/17 12:15	170523S13
TP-S011	Matrix Spike Duplicate	Solid	GC 31	05/23/17	05/25/17 12:34	170523S13

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	66.34	66	67.50	68	50-135	2	0-20	
Aroclor-1260	517.4	100.0	274.8	0	269.5	0	50-135	2	0-25	3

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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Quality Control - Spike/Spike Duplicate

EA Engineering  
615 Piikoi Street, Suite 515  
Honolulu, HI 96814-3116

Date Received: 05/23/17  
Work Order: 17-05-1776  
Preparation: EPA 3545  
Method: EPA 8082

Project: Hazmat Survey - GPA 93156.01

Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
DDP-S001	Sample	Solid	GC 58	05/23/17	05/25/17 19:50	170523S12
DDP-S001	Matrix Spike	Solid	GC 58	05/23/17	05/25/17 18:56	170523S12
DDP-S001	Matrix Spike Duplicate	Solid	GC 58	05/23/17	05/25/17 19:14	170523S12

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	80.50	80	46.07	46	50-135	54	0-20	3,4
Aroclor-1260	ND	100.0	144.0	144	77.11	77	50-135	60	0-25	3,4

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

## Quality Control - LCS

EA Engineering	Date Received:	05/23/17
615 Piikoi Street, Suite 515	Work Order:	17-05-1776
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
Project: Hazmat Survey - GPA 93156.01		Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-15-959-200</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 31</b>	<b>05/23/17</b>	<b>05/25/17 11:00</b>	<b>170523L13</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Aroclor-1016		100.0	112.0	112	50-135	
Aroclor-1260		100.0	117.0	117	50-135	



## Quality Control - LCS

EA Engineering	Date Received:	05/23/17
615 Piikoi Street, Suite 515	Work Order:	17-05-1776
Honolulu, HI 96814-3116	Preparation:	EPA 3545
	Method:	EPA 8082
Project: Hazmat Survey - GPA 93156.01		Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-15-959-203</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 58</b>	<b>05/23/17</b>	<b>05/25/17 18:38</b>	<b>170523L12</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Aroclor-1016		100.0	70.50	70	50-135	
Aroclor-1260		100.0	77.00	77	50-135	

## Glossary of Terms and Qualifiers

Work Order: 17-05-1776

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



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LABORATORY CLIENT: EA Engineering, Science, and Technology, Inc. PBC

ADDRESS: 1001 Army Drive, Suite 103

CITY: Barrigada

STATE: GU ZIP: 96913

TEL: 671-646-5231

E-MAIL: rshambach@eaeast.com, bnruding@eaeast.com

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

GLOBAL ID:

LOG CODE:

SPECIAL INSTRUCTIONS:

**CHAIN OF CUSTODY RECORD**  
DATE: 05/22/17  
PAGE: 1 OF 3

WC# / LAB USE ONLY  
**17-05-1776**

CLIENT PROJECT NAME / NUMBER: Hazmat Survey - GPA 63156.01  
PROJECT CONTACT: Brenda Nuding (Chemist); Bob Shambach (PM)  
P.O. NO.: 16405  
SAMPLER(S): (PRINT) Robert Shambach/Jaquay Soriano

**REQUESTED ANALYSES**

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Field Filtered	Preserved	Unpreserved	TPH(g) <input type="checkbox"/> GRO	TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	Oxygenates (8260)	VOCs (8260)	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	
1	DDP-S001	5/10/2017	1422	SOIL	1			X									X				
2	DDP-S002	5/10/2017	1425	SOIL	1			X									X				
3	DDP-S003	5/10/2017	1429	SOIL	1			X									X				
4	DDP-S004	5/10/2017	1432	SOIL	1			X									X				
5	DDP-S005	5/10/2017	1434	SOIL	1			X									X				
6	DDP-S006	5/10/2017	1438	SOIL	1			X									X				
7	DDP-S007	5/10/2017	1441	SOIL	1			X									X				
8	DDP-S008	5/10/2017	1444	SOIL	1			X									X				
9	DDP-S009	5/10/2017	1450	SOIL	1			X									X				
10	DDP-S010	5/10/2017	1452	SOIL	1			X									X				

Relinquished by: (Signature) *[Signature]* Date: 5/23/17 Time: 1010

Relinquished by: (Signature) *[Signature]* Date: 5/23/17 Time: 1010

Relinquished by: (Signature) *[Signature]* Date: 5/23/17 Time: 1010





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ADDRESS:

1001 Army Drive, Suite 103

CITY: Barrigada

STATE: GU

ZIP: 96913

TEL: 671-646-5231

E-MAIL: rshambach@eaest.com, brnuding@eaest.com

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

GLOBAL ID:

LOG CODE:

SPECIAL INSTRUCTIONS:

# CHAIN OF CUSTODY RECORD

DATE: 05/22/17

PAGE: 2 OF 3

WO # / LAB USE ONLY: 05-1776

CLIENT PROJECT NAME / NUMBER: Hazmat Survey - GPA 63156.01

P.O. NO.: 16405

PROJECT CONTACT: Brenda Nuding (Chemist); Bob Shambach (PM)

SAMPLER(S): (PRINT) Robert Shambach/Jaquay Soriano

## REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Field Filtered	Preserved	Unpreserved	TPH (g) <input type="checkbox"/> GRO	TPH (d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCS (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	
11	DDP-S011	5/10/2017	1400	SOIL	1			X										X				
12	TP-S001	5/12/2017	1127	SOIL	1			X										X				
13	TP-S002	5/12/2017	1132	SOIL	1			X										X				
14	TP-S003	5/12/2017	1138	SOIL	1			X										X				
15	TP-S004	5/12/2017	1145	SOIL	1			X										X				
16	TP-S005	5/12/2017	1147	SOIL	1			X										X				
17	TP-S006	5/12/2017	1151	SOIL	1			X										X				
18	TP-S007	5/12/2017	1204	SOIL	1			X										X				
19	TP-S008	5/12/2017	1210	SOIL	1			X										X				
20	TP-S009	5/12/2017	1213	SOIL	1			X										X				

Received by: (Signature/Affiliation)

Date: 5/23/17 Time: 1010

Received by: (Signature/Affiliation)

Date: 5/23/17 Time: 1010

Received by: (Signature/Affiliation)

Date: 5/23/17 Time: 1010

Relinquished by (Signature) *Robert Shambach 5/22/17 5:15pm*

Relinquished by: (Signature)

Relinquished by: (Signature)





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1001 Army Drive, Suite 103

CITY: Barrigada

STATE: GU

ZIP: 96913

TEL: 671-646-5231

E-MAIL: rshambach@eaest.com, brunding@eaest.com

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

GLOBAL ID:

LOG CODE:

SPECIAL INSTRUCTIONS:

### REQUESTED ANALYSES

Please check box or fill in blank as needed.

<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	<input type="checkbox"/> TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C14	<input type="checkbox"/> BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	<input type="checkbox"/> VOCs (8260)	<input type="checkbox"/> Oxygenates (8260)	<input type="checkbox"/> Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	<input type="checkbox"/> SVOCs (8270)	<input type="checkbox"/> Pesticides (8081)	<input type="checkbox"/> PCBs (8082)	<input type="checkbox"/> PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> SIM	<input type="checkbox"/> T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	<input type="checkbox"/> Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6
--	--	--	---	--------------------------------------	--	---	---------------------------------------	--	--------------------------------------	--	---	--

Received by: (Signature/Affiliation)

Relinquished by: (Signature) *David Smith 5/22/17 9:12/15 pm*

Received by: (Signature/Affiliation)

Relinquished by: (Signature) *[Signature]*

Received by: (Signature/Affiliation)

Relinquished by: (Signature)

Date:

Time:

Date: 5/23/17

Time: 1010

Date:

Time:

Date:

Time:

## CHAIN OF CUSTODY RECORD

DATE: 05/22/17

PAGE: 3 OF 3

WO # / LAB USE ONLY: 05 - 1776

CLIENT PROJECT NAME / NUMBER: Hazmat Survey - GPA 63156.01

P.O. NO.: 16405

PROJECT CONTACT: Brenda Nuding (Chemist); Bob Shambach (PM)

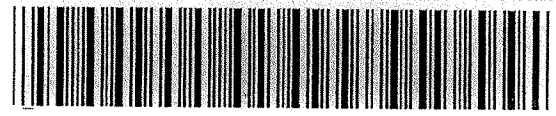
SAMPLER(S): (PRINT) Robert Shambach/Jaquay Soriano

1776

**FedEx** International Air Waybill  
Express

Original

**1 From**  
 Date 05/22/17 Sender's FedEx Account Number 3175-5776-0  
 Sender's Name ROBERT SHAMBACH Phone 671-646-5231  
 Company EA ENGR SCIENCE & TECHNOLOGY  
 Address \_\_\_\_\_  
 Address 1006 ARMY DRIVE SUITE 103  
 City BARRIGADA State Province GU  
 Country GU ZIP Postal Code 969631402  
 Email Address rshambach@eaest.com  
 Internal Billing Reference GPA 63156.01



FedEx Tracking Number **8115 3314 1556 0402** Form ID No. \_\_\_\_\_

**2 To**  Residential Delivery  
 Recipient's Name CARLA HOLLOWELL Phone 714-895-5494  
 Company EUROFINS CALSCIENCE  
 Address 7440 LINCOLN WAY  
 Address \_\_\_\_\_  
 City GARDEN GROVE State Province CA  
 Country USA ZIP Postal Code 92814-1427  
 Email Address Carla.HOLLOWELL@EurofinsUS.com  
 Recipient's Tax ID Number for Customs Purposes \_\_\_\_\_

**4 Express Package Service**  
 NOTE: Service order has changed. Please select carefully.  
 FedEx Intl. First  FedEx Intl. Priority  FedEx Intl. Economy  
**5 Packaging**  
 FedEx Envelope  FedEx Pak  FedEx Box  FedEx Tube  
 FedEx 10kg Box  FedEx 25kg Box  Other Cooler  
**6 Special Handling and Delivery Signature Options** Fees may apply. See the FedEx Service Guide.  
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 Direct Signature  Indirect Signature

**3 Shipment Information**  
 Total Packages 1 Total Weight 23 lbs  kg 18 DIM 11 15 15 in. cm  
 Shipper's Load and Count/SLAC \_\_\_\_\_  

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
<u>Environmental Soil SAMPLES</u>			<u>\$1.00</u>

 Total Declared Value for Carriage \_\_\_\_\_ Total Value for Customs (Specify Currency) \$1.00  
 Has EEI been filed in AES?  No EEI required, value \$2,500 or less per Sch. B Number, no license required (NLR), not subject to FTAR.  
 No EEI required, enter exemption number: \_\_\_\_\_ If other than NLR, enter License Exception: \_\_\_\_\_  
 Yes - Enter AES proof of filing citation: \_\_\_\_\_

**7 Payment** Complete payment options for both transportation charges and duties and taxes.  
 Bill transportation charges to:  
 Sender  Recipient  Third Party  Credit Card  Cash Check/Cheque  
 Bill duties and taxes to:  
 Sender  Recipient  Third Party  Cash Check/Cheque

**8 Required Signature**  
 Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not contain dangerous goods, and you represent that this shipment does not contain dangerous goods, and you represent that this shipment does not contain dangerous goods...  
 Sender's Signature: [Signature]  
 Recipient's Signature: [Signature]  

Origin Station ID <u>SWA</u>	Country Code <u>AWA</u>	Destination Station ID <u>WZ</u>	U.S.A. Routing <u>APV</u>	Handling Units _____
Received At: <input type="checkbox"/> Reg. Stop <input type="checkbox"/> On-Call Stop <input type="checkbox"/> Drop Box <input type="checkbox"/> World Service Center <input type="checkbox"/> Station				Forms Attached: <input type="checkbox"/> CI <input type="checkbox"/>

 Base Charges \_\_\_\_\_ Declared Value \_\_\_\_\_ ODA/OFA \_\_\_\_\_ Credit Card Auth. \_\_\_\_\_  
 FedEx Emp. # \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_ Del. Courier Emp. # \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: EA Eng

DATE: 05/23/2017

**TEMPERATURE:** (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC3 (CF: 0.0°C); Temperature (w/o CF): 2.1 °C (w/ CF): 2.1 °C;  Blank  Sample

Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature:  Air  Filter

Checked by: 15

**CUSTODY SEAL:**

Cooler  Present and Intact  Present but Not Intact  Not Present  N/A Checked by: 15

Sample(s)  Present and Intact  Present but Not Intact  Not Present  N/A Checked by: 687

**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers			
<input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time			
Sampler's name indicated on COC .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and in good condition .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sufficient volume/mass for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within holding time .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples for certain analyses received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation chemical(s) noted on COC and/or sample container .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Unpreserved aqueous sample(s) received for certain analyses	<input checked="" type="checkbox"/>		
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Total Metals <input type="checkbox"/> Dissolved Metals			
Container(s) for certain analysis free of headspace .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500)			
<input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:** (Trip Blank Lot Number: \_\_\_\_\_)

**Aqueous:**  VOA  VOA<sub>h</sub>  VOA<sub>na<sub>2</sub></sub>  100PJ  100PJ<sub>na<sub>2</sub></sub>  125AGB  125AGB<sub>h</sub>  125AGB<sub>p</sub>  125PB

125PB<sub>z<sub>na</sub></sub>  250AGB  250CGB  250CGB<sub>s</sub>  250PB  250PB<sub>n</sub>  500AGB  500AGJ  500AGJ<sub>s</sub>

500PB  1AGB  1AGB<sub>na<sub>2</sub></sub>  1AGB<sub>s</sub>  1PB  1PB<sub>na</sub>  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

**Solid:**  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (\_\_\_\_\_)  EnCores® (\_\_\_\_\_)  TerraCores® (\_\_\_\_\_)  \_\_\_\_\_

**Air:**  Tedlar™  Canister  Sorbent Tube  PUF  \_\_\_\_\_ **Other Matrix** (\_\_\_\_):  \_\_\_\_\_  \_\_\_\_\_

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO<sub>3</sub>, **na** = NaOH, **na<sub>2</sub>** = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, **p** = H<sub>3</sub>PO<sub>4</sub>, **s** = H<sub>2</sub>SO<sub>4</sub>, **u** = ultra-pure, **x** = Na<sub>2</sub>SO<sub>3</sub>+NaHSO<sub>4</sub>.H<sub>2</sub>O, **z<sub>na</sub>** = Zn (CH<sub>3</sub>CO<sub>2</sub>)<sub>2</sub> + NaOH

Labeled/Checked by: 687  
Reviewed by: 103

# EPA METHOD 8082 PCB

## RAW DATA



# EPA METHOD 8082 PCB

## Initial Calibration

# INITIAL CALIBRATION QUALITY CONTROL SUMMARY FOR METHOD: EPA 8082

ICAL WORK ORDER: 099-15-958-420-6572  
ICAL BATCH ID: 1705191001  
INSTRUMENT: GC 31

ANALYZED BY: 669  
ICAL D/T ANALYZED: 2017-05-19 11:53  
REVIEWED BY: 27  
D/T REVIEWED: 2017-05-23 09:43

COMPOUND	COMP. TYPE	CALIB. MODEL	1	2	3	4	5	6	7	8	9	Avg. RF	Min. RF	%RSD CL	R of R <sup>2</sup> CL	R of R <sup>2</sup> CL	STATUS
Aroclor-1016	C	Avg RF	18,868,619	17,848,487	17,615,18	17,036,849	16,058,59					17.48	0.00	6	0-20		PASS
Aroclor-1260	C	Avg RF	26,576,849	25,998,946	26,658,42	25,969,747	26,034,59					26.24	0.00	1	0-20		PASS
												5.545					

**Data Files:**

Level #	D/T Analyzed	Data File
1	2017-05-19 11:53	/chem1/SVOA/GC_31/170519/b/1705190117051901
2	2017-05-19 12:12	/chem1/SVOA/GC_31/170519/b/1705190217051902
3	2017-05-19 12:31	/chem1/SVOA/GC_31/170519/b/1705190317051903
4	2017-05-19 12:50	/chem1/SVOA/GC_31/170519/b/1705190417051904
5	2017-05-19 13:09	/chem1/SVOA/GC_31/170519/b/1705190517051905

LR - E: Linear Regression (Equal Weight)  
Avg RF: Average Response Factor

LR - IC: Linear Regression (Inverse Concentration Weight)  
QR - E: Quadratic Regression (Equal Weight)

LR - ISC: Linear Regression (Inverse Square Concentration Weight)

# INITIAL CALIBRATION VERIFICATION QUALITY CONTROL SHEET FOR METHOD: EPA 8082

ICV WORK ORDER: 099-15-958-420-6572  
INITIAL BATCH: 1705191001  
INSTRUMENT: GC 31  
  
ANALYZED BY: 669  
D/T ANALYZED: 2017-05-19 11:53  
INITIAL: 2017-05-19 13:28  
ICV: 27  
REVIEWED BY:  
D/T REVIEWED: 2017-05-23 09:43

DATA FILE: /chem1/SVOA/GC\_31/170519/b1705190617051906

<u>COMPOUND NAME</u>	<u>COMP CALIB</u>		<u>MIN RF</u>	<u>AVG RF</u>	<u>ICV RF</u>	<u>AMOUNT</u>	<u>ICV CONC</u>	<u>ICV %D</u>	<u>ICV %D CL</u>	<u>STATUS</u>
	<u>TYPE</u>	<u>MODEL</u>								
Aroclor-1016	C	Avg Resp	0.00	1748545.465	19218464.524			-10	0-15	PASS
Aroclor-1260	C	Avg Resp	0.00	26247714.113	29117156.310			-11	0-15	PASS

MIN RF: Method Specified Minimum Response Factor

Report Date : 19-May-2017 16:12

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Eurofins Calscience

INITIAL CALIBRATION DATA

Start Cal Date : 20-FEB-2017 15:04  
 End Cal Date : 19-MAY-2017 14:44  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP Genie  
 Method file : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Cal Date : 19-May-2017 16:10 src3  
 Curve Type : Average

Calibration File Names:

Level 1: /chem1/SVOA/GC\_31.i/170519.b/b17051901.d  
 Level 2: /chem1/SVOA/GC\_31.i/170519.b/b17051902.d  
 Level 3: /chem1/SVOA/GC\_31.i/170519.b/b17051910.d  
 Level 4: /chem1/SVOA/GC\_31.i/170519.b/b17051904.d  
 Level 5: /chem1/SVOA/GC\_31.i/170519.b/b17051905.d

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	750.000 Level 4	2000.000 Level 5	RRF	% RSD
M 2 Aroclor-1016	18868619	17848487	17615181	17036849	16058591	17485545	6
3 Aroclor 1016 (1)	2026787	1812154	1753570	1674589	1533787	1760177	10
4 Aroclor 1016 (2)	3578255	3316365	3197023	3067526	2822327	3196299	9
5 Aroclor 1016 (3)	7842761	7480713	7467663	7273882	6969688	7406941	4
6 Aroclor 1016 (4)	3334330	3243336	3196861	3084677	2889213	3149684	5
7 Aroclor 1016 (5)	2086486	1995919	2000064	1936175	1843577	1972444	5
M 8 Aroclor-1260	26576849	25998946	26658429	25969747	26034599	26247714	1
9 Aroclor 1260 (1)	9159306	8931688	9105015	8822152	8810512	8965734	2
10 Aroclor 1260 (2)	6715142	6596937	6767859	6588651	6576294	6648977	1
11 Aroclor 1260 (3)	5578495	5428638	5512414	5363617	5326809	5441995	2
12 Aroclor 1260 (4)	1798575	1807070	1977221	2012603	2154264	1949946	8
13 Aroclor 1260 (5)	3325332	3234614	3295921	3182724	3166720	3241062	2
M 14 Aroclor-1221	++++	++++	5142160	++++	++++	5142160	0
15 Aroclor 1221 (1)	++++	++++	768830	++++	++++	768830	0
16 Aroclor 1221 (2)	++++	++++	1031793	++++	++++	1031793	0
17 Aroclor 1221 (3)	++++	++++	625994	++++	++++	625994	0
18 Aroclor 1221 (4)	++++	++++	2470569	++++	++++	2470569	0
19 Aroclor 1221 (5)	++++	++++	244975	++++	++++	244975	0
M 20 Aroclor-1232	++++	++++	9539913	++++	++++	9539913	0
21 Aroclor 1232 (1)	++++	++++	1913448	++++	++++	1913448	0
22 Aroclor 1232 (2)	++++	++++	1568967	++++	++++	1568967	0
23 Aroclor 1232 (3)	++++	++++	3560651	++++	++++	3560651	0

Report Date : 19-May-2017 16:12

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Eurofins Calscience

INITIAL CALIBRATION DATA

Start Cal Date : 20-FEB-2017 15:04  
 End Cal Date : 19-MAY-2017 14:44  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP Genie  
 Method file : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Cal Date : 19-May-2017 16:10 src3  
 Curve Type : Average

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	750.000 Level 4	2000.000 Level 5	RRF	% RSD
24 Aroclor 1232 (4)	++++	++++	1524428	++++	++++	1524428	0
25 Aroclor 1232 (5)	++++	++++	972418	++++	++++	972418	0
M 26 Aroclor-1242	++++	++++	16011378	++++	++++	16011378	0
27 Aroclor 1242 (1)	++++	++++	1579317	++++	++++	1579317	0
28 Aroclor 1242 (2)	++++	++++	2929497	++++	++++	2929497	0
29 Aroclor 1242 (3)	++++	++++	6779076	++++	++++	6779076	0
30 Aroclor 1242 (4)	++++	++++	2913443	++++	++++	2913443	0
31 Aroclor 1242 (5)	++++	++++	1810045	++++	++++	1810045	0
M 32 Aroclor-1248	++++	++++	11895345	++++	++++	11895345	0
33 Aroclor 1248 (1)	++++	++++	3770988	++++	++++	3770988	0
34 Aroclor 1248 (2)	++++	++++	1479013	++++	++++	1479013	0
35 Aroclor 1248 (3)	++++	++++	841289	++++	++++	841289	0
36 Aroclor 1248 (4)	++++	++++	3746382	++++	++++	3746382	0
37 Aroclor 1248 (5)	++++	++++	2057673	++++	++++	2057673	0
M 38 Aroclor-1254	++++	++++	23710055	++++	++++	23710055	0
39 Aroclor 1254 (1)	++++	++++	2928854	++++	++++	2928854	0
40 Aroclor 1254 (2)	++++	++++	6042364	++++	++++	6042364	0
41 Aroclor 1254 (3)	++++	++++	5671079	++++	++++	5671079	0
42 Aroclor 1254 (4)	++++	++++	5366000	++++	++++	5366000	0
43 Aroclor 1254 (5)	++++	++++	3701758	++++	++++	3701758	0
M 44 Aroclor-1262	++++	++++	31250690	++++	++++	31250690	0
45 Aroclor 1262 (1)	++++	++++	6626903	++++	++++	6626903	0
46 Aroclor 1262 (2)	++++	++++	9891096	++++	++++	9891096	0
47 Aroclor 1262 (3)	++++	++++	7058923	++++	++++	7058923	0
48 Aroclor 1262 (4)	++++	++++	2375066	++++	++++	2375066	0
49 Aroclor 1262 (5)	++++	++++	5298703	++++	++++	5298703	0
M 50 Aroclor-1268	++++	++++	95127285	++++	++++	95127285	0
51 Aroclor 1268 (1)	++++	++++	20442092	++++	++++	20442092	0
52 Aroclor 1268 (2)	++++	++++	18963093	++++	++++	18963093	0

Report Date : 19-May-2017 16:12

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## Eurofins Calscience

## INITIAL CALIBRATION DATA

Start Cal Date : 20-FEB-2017 15:04  
 End Cal Date : 19-MAY-2017 14:44  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP Genie  
 Method file : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Cal Date : 19-May-2017 16:10 src3  
 Curve Type : Average

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	750.000 Level 4	2000.000 Level 5	RRF	% RSD
53 Aroclor 1268 (3)	++++	++++	12981442	++++	++++	12981442	0
54 Aroclor 1268 (4)	++++	++++	5893626	++++	++++	5893626	0
55 Aroclor 1268 (5)	++++	++++	36847032	++++	++++	36847032	0
\$ 1 2,4,5,6-Tetrachloro-m-xylene	100032794	99336365	102459591	100950466	100571656	100670175	1
\$ 56 Decachlorobiphenyl	102035936	100998441	103160633	99865845	102245403	101661252	1

Report Date : 19-May-2017 16:12

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## Eurofins Calscience

## INITIAL CALIBRATION DATA

Start Cal Date : 20-FEB-2017 15:04  
End Cal Date : 19-MAY-2017 14:44  
Quant Method : ESTD  
Origin : Disabled  
Target Version : 3.50  
Integrator : HP Genie  
Method file : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
Cal Date : 19-May-2017 16:10 src3  
Curve Type : Average

Average %RSD Results.	
-----	
Calculated Average %RSD =	4.13435
Maximum Average %RSD =	20.00000
* Passed Average %RSD Test.	

Data File: /chem1/SVOA/GC\_31.i/170519.b/b17051906.d  
 Report Date: 05/19/2017 16:11

Eurofins CalScience  
 Calibration Verification Report

Instrument ID: GC\_31.i                      Injection Date and Time: 19-MAY-2017 13:28  
 Sample Name: ICV P051717H                Initial Calibration Date(s): 20-FEB-2017 19-MAY-2017  
 Sublist used: p1016\_1260.sub            Initial Calibration Time(s): 15:04 14:44  
 Method used: /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
Aroclor-1016	17485545.466	19218464.524	0.01	-10	15	Averaged
Aroclor 1016 (1)	1760177.318	2026882.910	0.01	-15	15	Averaged
Aroclor 1016 (2)	3196299.334	3438964.584	0.01	-8	15	Averaged
Aroclor 1016 (3)	7406941.175	8115393.226	0.01	-10	15	Averaged
Aroclor 1016 (4)	3149683.514	3463435.428	0.01	-10	15	Averaged
Aroclor 1016 (5)	1972444.125	2173788.376	0.01	-10	15	Averaged
Aroclor 1260 (4)	1949946.445	1875217.236	0.01	4	15	Averaged
Aroclor-1260	26247714.113	29117156.309	0.01	-11	15	Averaged
Aroclor 1260 (5)	3241062.132	3623989.624	0.01	-12	15	Averaged
Aroclor 1260 (1)	8965734.278	10485110.191	0.01	-17	15	Averaged
Aroclor 1260 (2)	6648976.710	7215188.474	0.01	-9	15	Averaged
Aroclor 1260 (3)	5441994.549	5917650.784	0.01	-9	15	Averaged
Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
2,4,5,6-Tetrachloro-m-xylene	100670174.518	99959108.067	0.01	1	15	Averaged
Decachlorobiphenyl	101661251.558	105117099.449	0.01	-3	15	Averaged

<-Failed



Data File: /chem1/SVOA/GC\_31.i/170519.b/b17051901.d  
 Report Date: 19-May-2017 16:10

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Eurofins Calscience

EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170519.b/b17051901.d  
 Lab Smp Id:  
 Inj Date : 19-MAY-2017 11:53  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : ICAL-1 P051717F  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Meth Date : 19-May-2017 16:10 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 11:53 Cal File: b17051901.d  
 Als bottle: 1 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
\$ 1 2,4,5,6-Tetrachloro-m-xylene	4.965	4.965	0.000	2000655885	20.0000	19.9
M 2 Aroclor-1016				1886861926	100.000	108
3 Aroclor 1016 (1)	5.495	5.495	0.000	202678745	100.000	115
4 Aroclor 1016 (2)	5.979	5.979	0.000	357825500	100.000	112
5 Aroclor 1016 (3)	6.587	6.587	0.000	784276089	100.000	106
6 Aroclor 1016 (4)	6.754	6.754	0.000	333433031	100.000	106
7 Aroclor 1016 (5)	6.833	6.833	0.000	208648561	100.000	106
M 8 Aroclor-1260				2657684923	100.000	101
9 Aroclor 1260 (1)	9.004	9.004	0.000	915930560	100.000	102
10 Aroclor 1260 (2)	9.448	9.448	0.000	671514155	100.000	101
11 Aroclor 1260 (3)	9.728	9.728	0.000	557849497	100.000	102
12 Aroclor 1260 (4)	10.799	10.799	0.000	179857528	100.000	92.2 (a)
13 Aroclor 1260 (5)	11.084	11.084	0.000	332533183	100.000	103
\$ 56 Decachlorobiphenyl	11.612	11.612	0.000	2040718711	20.0000	20.1

QC Flag Legend

a - Target compound detected but, quantitated amount  
 Below Limit Of Quantitation(BLOQ).

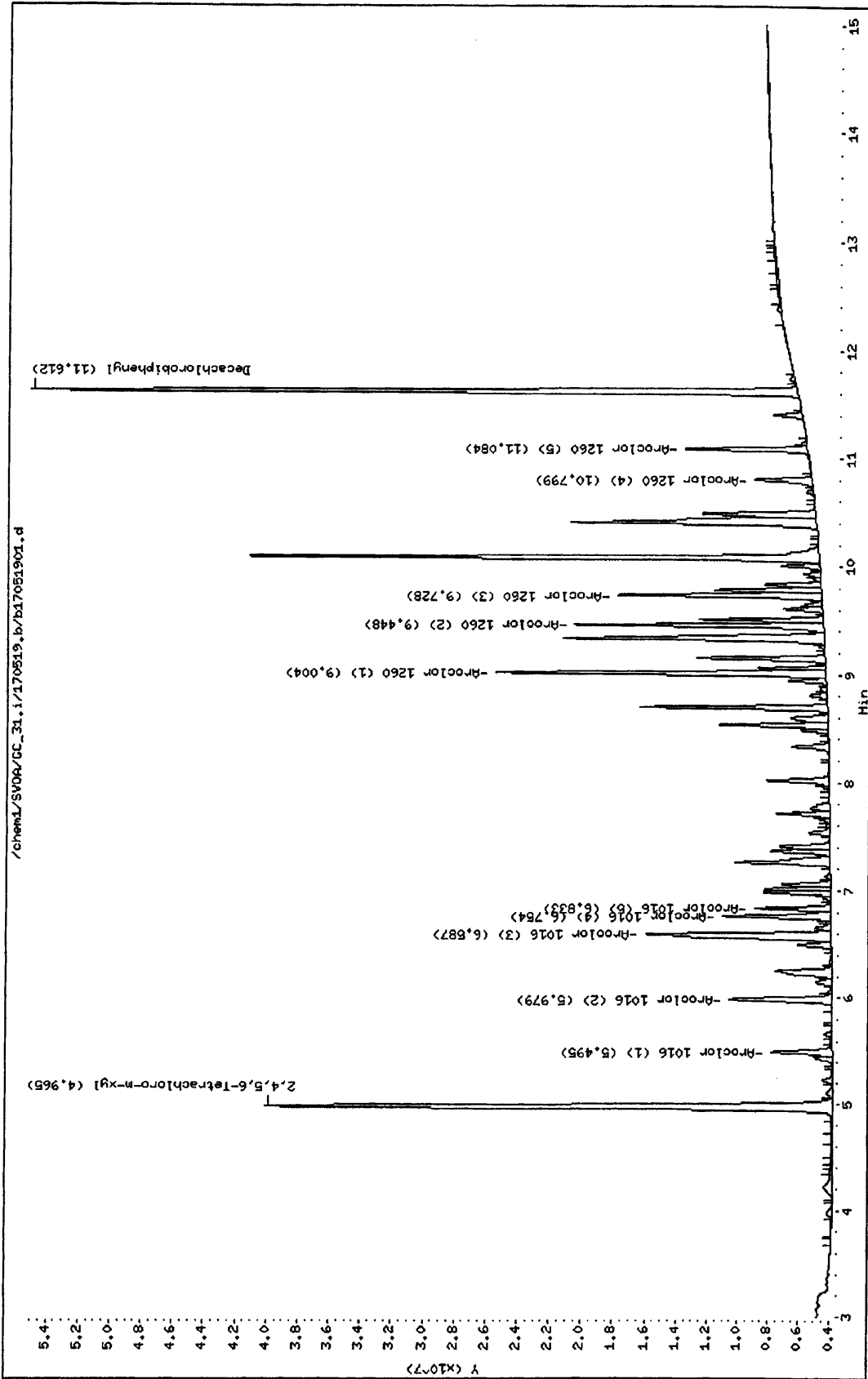
Data File: /chem1/SVDA/CC\_31.i/170519.b/17051901.d  
Date : 19-MAY-2017 11:53  
Client ID:  
Sample Info: ICAL-1 P051717F

Instrument: GC\_31.i

Operator: 944

Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_31.i/170519.b/b17051902.d  
 Report Date: 19-May-2017 16:10

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Eurofins Calscience

EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170519.b/b17051902.d  
 Lab Smp Id:  
 Inj Date : 19-MAY-2017 12:12  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : ICAL-2 P051717E  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Meth Date : 19-May-2017 16:10 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 12:12 Cal File: b17051902.d  
 Als bottle: 2 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

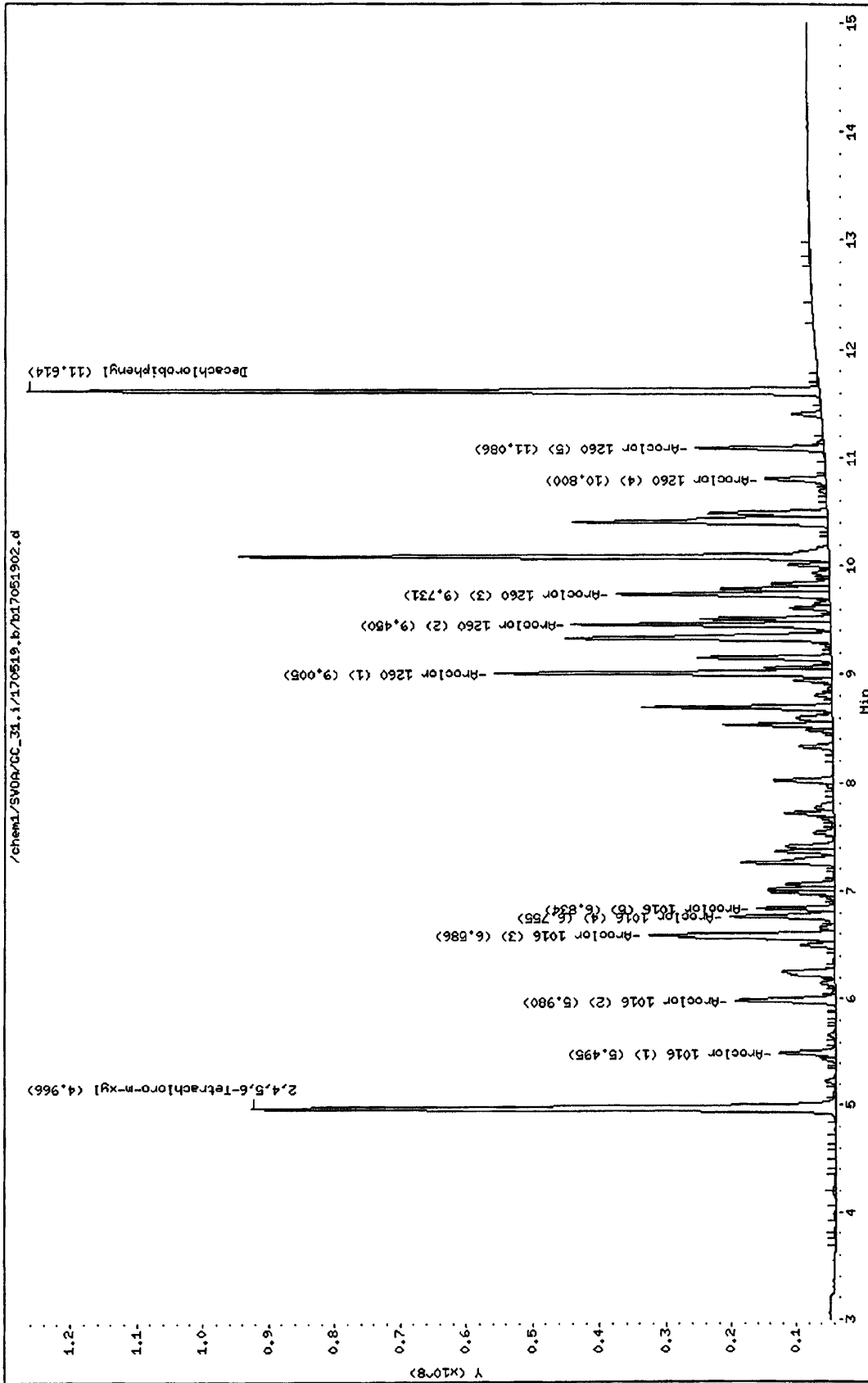
Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
§ 1 2,4,5,6-Tetrachloro-m-xylene	4.966	4.966	0.000	4966818265	50.0000	49.3
M 2 Aroclor-1016				4462121733	250.000	255
3 Aroclor 1016 (1)	5.495	5.495	0.000	453038397	250.000	257
4 Aroclor 1016 (2)	5.980	5.980	0.000	829091308	250.000	259
5 Aroclor 1016 (3)	6.586	6.586	0.000	1870178222	250.000	252
6 Aroclor 1016 (4)	6.755	6.755	0.000	810834083	250.000	257
7 Aroclor 1016 (5)	6.834	6.834	0.000	498979723	250.000	253
M 8 Aroclor-1260				6499736563	250.000	248
9 Aroclor 1260 (1)	9.005	9.005	0.000	2232921898	250.000	249
10 Aroclor 1260 (2)	9.450	9.450	0.000	1649234267	250.000	248
11 Aroclor 1260 (3)	9.731	9.731	0.000	1357159505	250.000	249
12 Aroclor 1260 (4)	10.800	10.800	0.000	451767472	250.000	232
13 Aroclor 1260 (5)	11.086	11.086	0.000	808653421	250.000	250
§ 56 Decachlorobiphenyl	11.614	11.614	0.000	5049922070	50.0000	49.7

Data File: /chem1/SVDA/GC\_31.i/170519.b/b17051902.d  
Date : 19-MAY-2017 12:12  
Client ID:  
Sample Info: ICAL-2 P051717E

Instrument: GC\_31.i  
Operator: 944  
Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_31.i/170519.b/b17051903.d  
 Report Date: 19-May-2017 16:10

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EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170519.b/b17051903.d  
 Lab Smp Id:  
 Inj Date : 19-MAY-2017 12:31  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : ICAL-3 P051717D  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Meth Date : 19-May-2017 16:10 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 3 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
\$ 1 2,4,5,6-Tetrachloro-m-xylene	4.966	4.966	0.000	10245959108	100.000	102
M 2 Aroclor-1016				8807590670	500.000	504
3 Aroclor 1016 (1)	5.495	5.495	0.000	876784797	500.000	498
4 Aroclor 1016 (2)	5.980	5.980	0.000	1598511731	500.000	500
5 Aroclor 1016 (3)	6.586	6.586	0.000	3733831326	500.000	504
6 Aroclor 1016 (4)	6.755	6.755	0.000	1598430744	500.000	507
7 Aroclor 1016 (5)	6.832	6.832	0.000	1000032072	500.000	507
M 8 Aroclor-1260				13329214701	500.000	508
9 Aroclor 1260 (1)	9.003	9.003	0.000	4552507274	500.000	508
10 Aroclor 1260 (2)	9.450	9.450	0.000	3383929712	500.000	509
11 Aroclor 1260 (3)	9.730	9.730	0.000	2756207031	500.000	506
12 Aroclor 1260 (4)	10.799	10.799	0.000	988610311	500.000	507
13 Aroclor 1260 (5)	11.084	11.084	0.000	1647960373	500.000	508
\$ 56 Decachlorobiphenyl	11.614	11.614	0.000	10316063296	100.000	101

Data File: /chem1/SVDA/GC\_31.i/170519.b/b17051903.d

Date : 19-MAY-2017 12:31

Client ID:

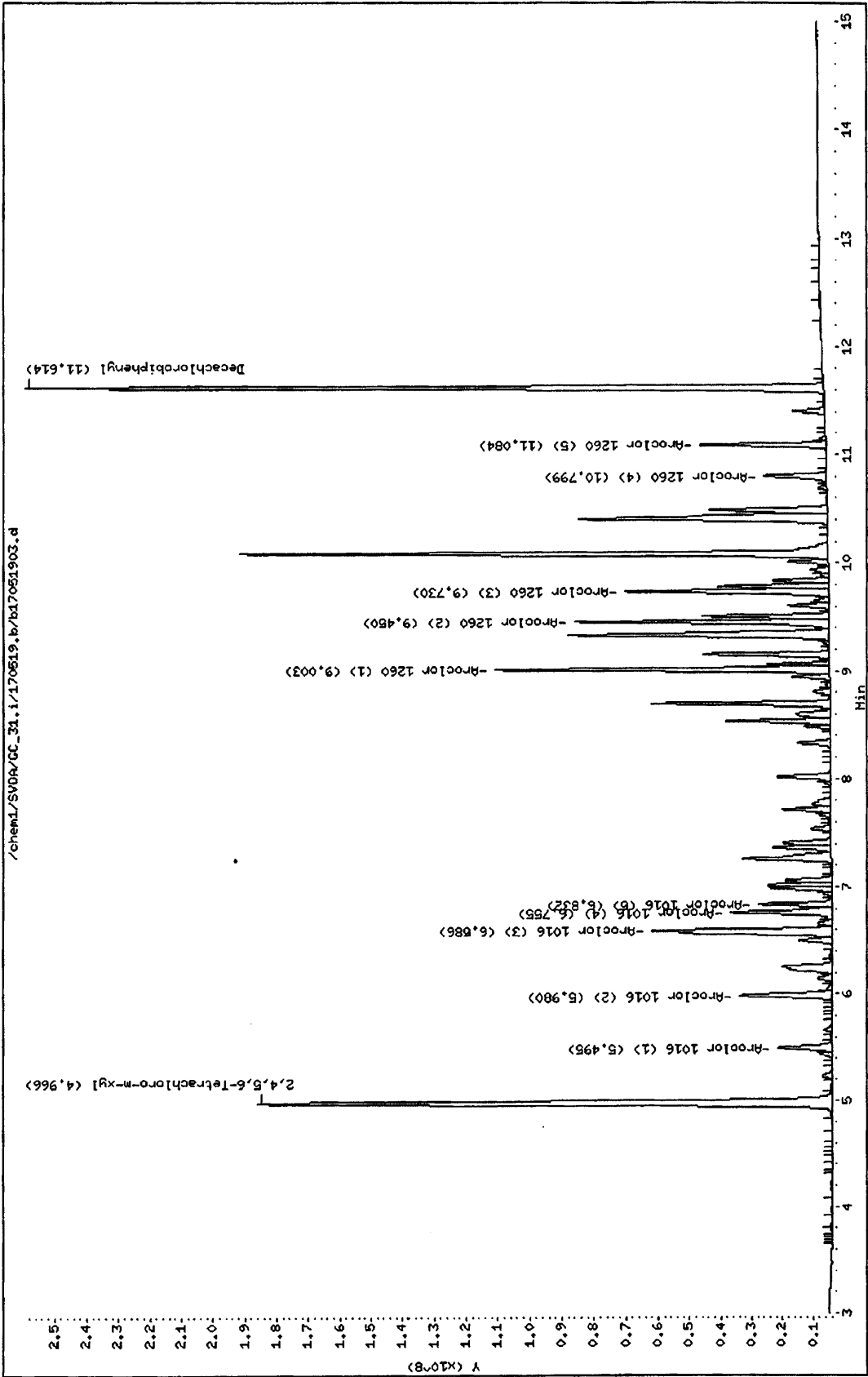
Sample Info: ICAL-3 P05A171D

Instrument: GC\_31.i

Operator: 944

Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_31.i/170519.b/b17051904.d  
 Report Date: 19-May-2017 16:10

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EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170519.b/b17051904.d  
 Lab Smp Id:  
 Inj Date : 19-MAY-2017 12:50  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : ICAL-4 P051717C  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Meth Date : 19-May-2017 16:10 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 12:50 Cal File: b17051904.d  
 Als bottle: 4 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

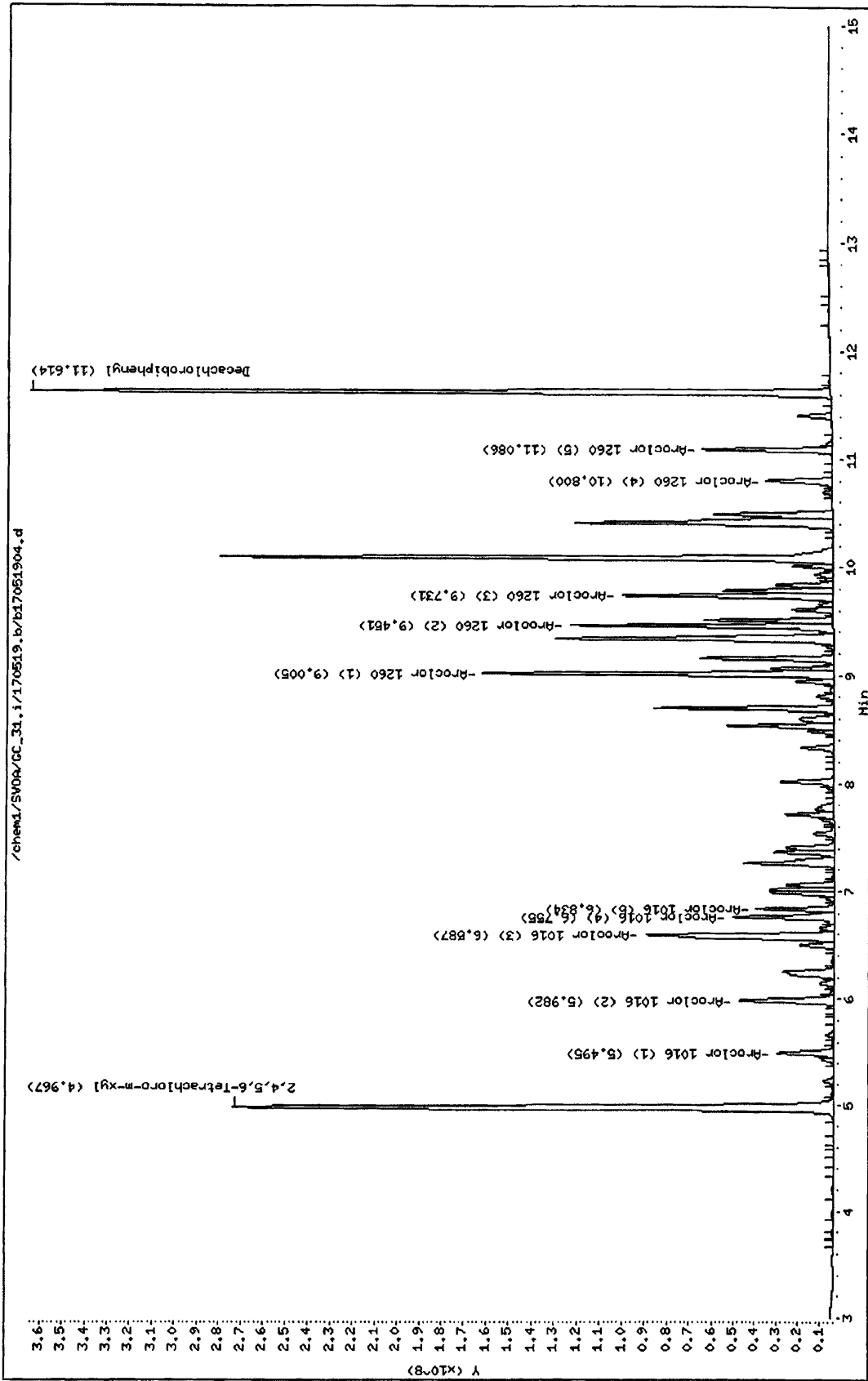
Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
\$ 1 2,4,5,6-Tetrachloro-m-xylene	4.967	4.967	0.000	15142569841	150.000	150
M 2 Aroclor-1016				12777636721	750.000	731
3 Aroclor 1016 (1)	5.495	5.495	0.000	1255941767	750.000	714
4 Aroclor 1016 (2)	5.982	5.982	0.000	2300644495	750.000	720
5 Aroclor 1016 (3)	6.587	6.587	0.000	5455411195	750.000	736
6 Aroclor 1016 (4)	6.755	6.755	0.000	2313507659	750.000	734
7 Aroclor 1016 (5)	6.834	6.834	0.000	1452131605	750.000	736
M 8 Aroclor-1260				19477310203	750.000	742
9 Aroclor 1260 (1)	9.005	9.005	0.000	6616614058	750.000	738
10 Aroclor 1260 (2)	9.451	9.451	0.000	4941488314	750.000	743
11 Aroclor 1260 (3)	9.731	9.731	0.000	4022712673	750.000	739
12 Aroclor 1260 (4)	10.800	10.800	0.000	1509451929	750.000	774
13 Aroclor 1260 (5)	11.086	11.086	0.000	2387043230	750.000	736
\$ 56 Decachlorobiphenyl	11.614	11.614	0.000	14979876698	150.000	147

Data File: /chem1/SV04/GC\_31.i/170519.b/b17051904.d  
Date : 19-MAY-2017 12:50  
Client ID:  
Sample Info: ICAL-4 P051717C

Instrument: GC\_31.i  
Operator: 944  
Column diameter: 2.00





Data File: /chem1/SVOA/GC\_31.i/170519.b/b17051905.d  
 Report Date: 19-May-2017 16:10

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EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170519.b/b17051905.d  
 Lab Smp Id:  
 Inj Date : 19-MAY-2017 13:09  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : ICAL-5 P051717B  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Meth Date : 19-May-2017 16:10 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 13:09 Cal File: b17051905.d  
 Als bottle: 5 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
\$ 1 2,4,5,6-Tetrachloro-m-xylene	4.968	4.968	0.000	40228662548	400.000	400
M 2 Aroclor-1016				32117181668	2000.00	1840
3 Aroclor 1016 (1)	5.495	5.495	0.000	3067573867	2000.00	1740
4 Aroclor 1016 (2)	5.981	5.981	0.000	5644653964	2000.00	1760
5 Aroclor 1016 (3)	6.587	6.587	0.000	13939375702	2000.00	1880
6 Aroclor 1016 (4)	6.755	6.755	0.000	5778425124	2000.00	1830
7 Aroclor 1016 (5)	6.834	6.834	0.000	3687153011	2000.00	1870
M 8 Aroclor-1260				52069197489	2000.00	1980
9 Aroclor 1260 (1)	9.006	9.006	0.000	17621023150	2000.00	1960
10 Aroclor 1260 (2)	9.451	9.451	0.000	13152588841	2000.00	1980
11 Aroclor 1260 (3)	9.731	9.731	0.000	10653617586	2000.00	1960
12 Aroclor 1260 (4)	10.799	10.799	0.000	4308527725	2000.00	2210(A)
13 Aroclor 1260 (5)	11.087	11.087	0.000	6333440186	2000.00	1950
\$ 56 Decachlorobiphenyl	11.615	11.615	0.000	40898161282	400.000	402(A)

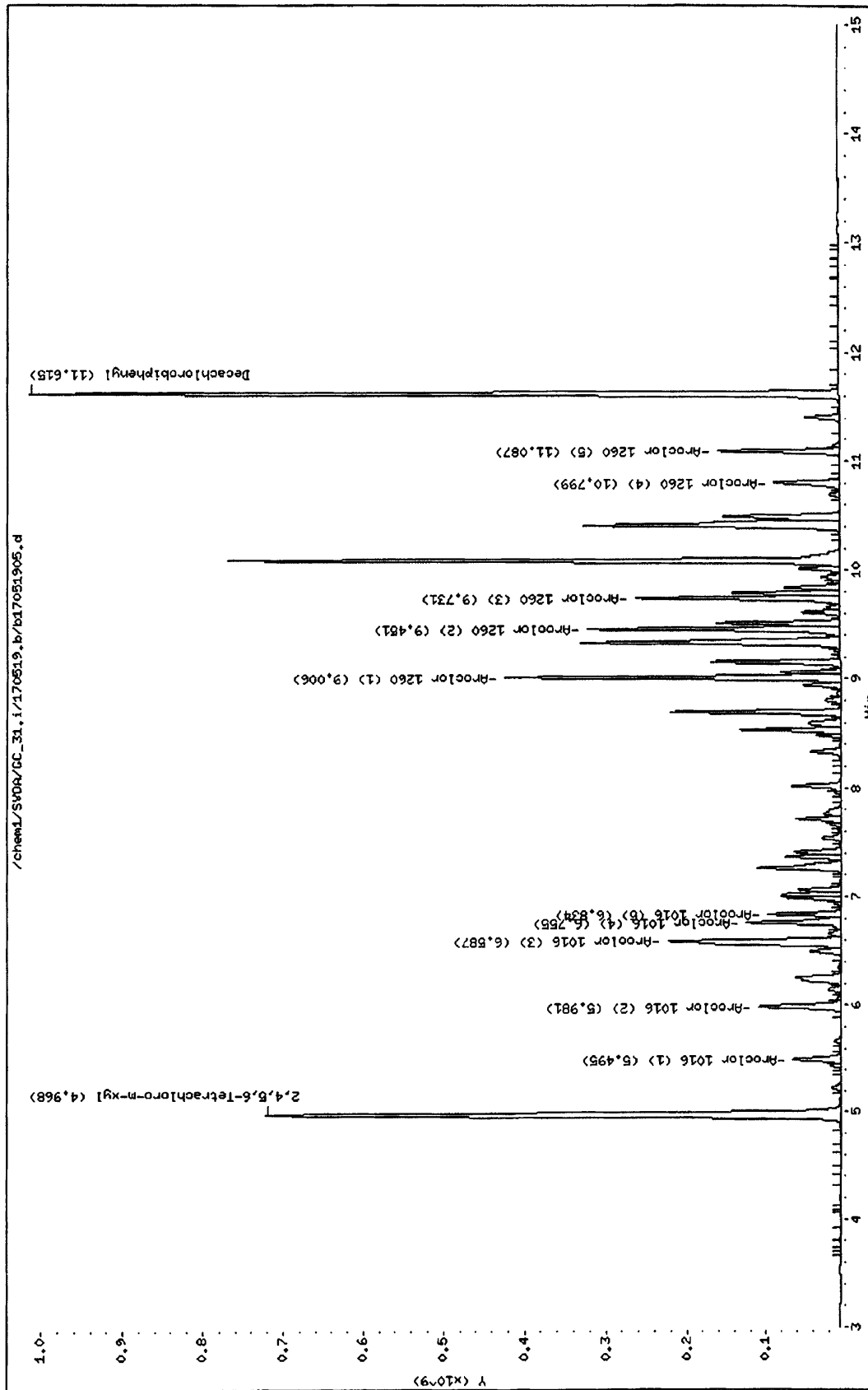
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem1/SV0A/GC\_31.i/170519.b/b17051905.d  
Date: 19-MAY-2017 13:09  
Client ID:  
Sample Info: ICAL-5 P051717B

Instrument: GC\_31.i  
Operator: 944  
Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_31.i/170519.b/b17051906.d  
 Report Date: 19-May-2017 16:10

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EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170519.b/b17051906.d  
 Lab Smp Id:  
 Inj Date : 19-MAY-2017 13:28  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : ICV P051717H  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Meth Date : 19-May-2017 16:10 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 13:09 Cal File: b17051905.d  
 Als bottle: 6 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
S 1 2,4,5,6-Tetrachloro-m-xylene	4.967	4.967	0.000	9995910807	100.000	99.3
M 2 Aroclor-1016				9609232262	500.000	550
3 Aroclor 1016 (1)	5.496	5.496	0.000	1013441455	500.000	576
4 Aroclor 1016 (2)	5.981	5.981	0.000	1719482292	500.000	538
5 Aroclor 1016 (3)	6.587	6.587	0.000	4057696613	500.000	548
6 Aroclor 1016 (4)	6.755	6.755	0.000	1731717714	500.000	550
7 Aroclor 1016 (5)	6.834	6.834	0.000	1086894188	500.000	551
M 8 Aroclor-1260				14558578155	500.000	555
9 Aroclor 1260 (1)	9.005	9.005	0.000	5242555096	500.000	585
10 Aroclor 1260 (2)	9.450	9.450	0.000	3607594237	500.000	542
11 Aroclor 1260 (3)	9.731	9.731	0.000	2958825392	500.000	544
12 Aroclor 1260 (4)	10.801	10.801	0.000	937608618	500.000	481
13 Aroclor 1260 (5)	11.086	11.086	0.000	1811994812	500.000	559
S 56 Decachlorobiphenyl	11.614	11.614	0.000	10511709945	100.000	103

Data File: /chem1/SV04/CC\_31.i/170519.b/b17051906.d

Date : 19-MAY-2017 13:28

Client ID:

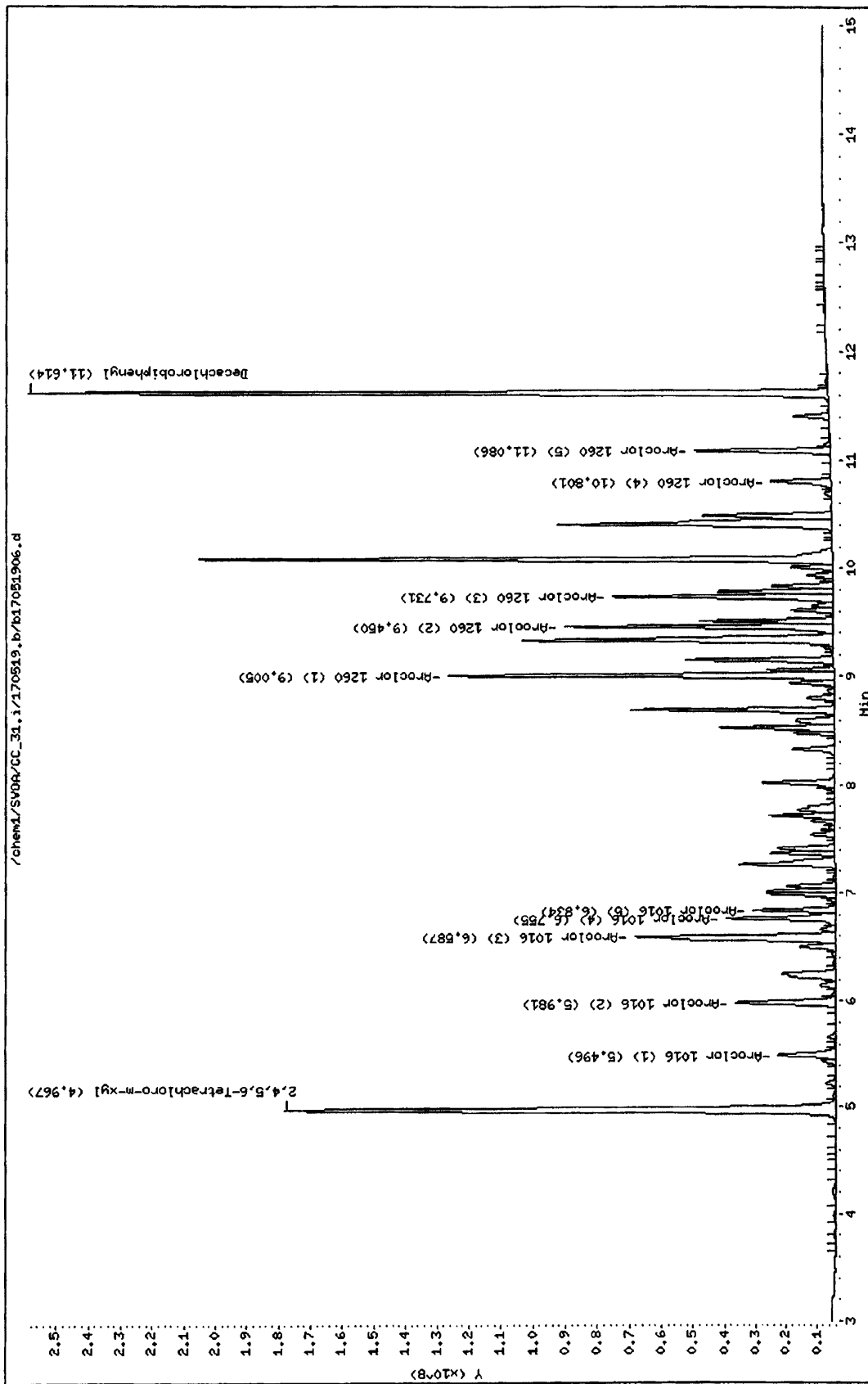
Sample Info: ICV P051717H

Instrument: GC\_31.i

Operator: 944

Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_31.i/170519.b/b17051907.d  
 Report Date: 19-May-2017 16:10

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EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170519.b/b17051907.d  
 Lab Smp Id:  
 Inj Date : 19-MAY-2017 13:47  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : 1221/54 P051717J  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Meth Date : 19-May-2017 16:10 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 7 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1221\_1254.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

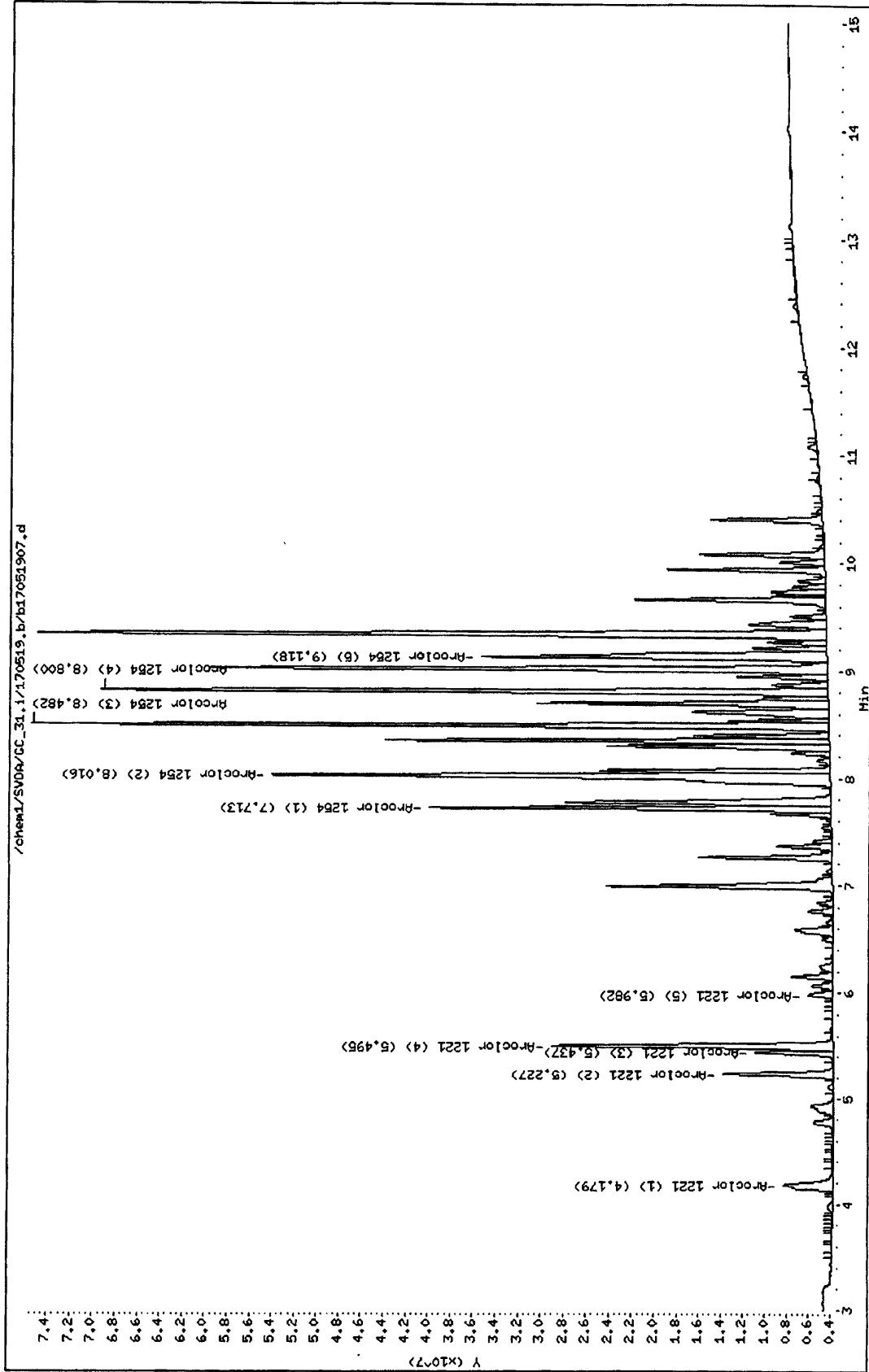
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
M 14 Aroclor-1221				2571079769	500.000	500
15 Aroclor 1221 (1)	4.179	4.179	0.000	384414848	500.000	500
16 Aroclor 1221 (2)	5.227	5.227	0.000	515896311	500.000	500
17 Aroclor 1221 (3)	5.437	5.437	0.000	312996802	500.000	500
18 Aroclor 1221 (4)	5.495	5.495	0.000	1235284501	500.000	500
19 Aroclor 1221 (5)	5.982	5.982	0.000	122487307	500.000	500
M 38 Aroclor-1254				11855027310	500.000	500
39 Aroclor 1254 (1)	7.713	7.713	0.000	1464427190	500.000	500
40 Aroclor 1254 (2)	8.016	8.016	0.000	3021182046	500.000	500
41 Aroclor 1254 (3)	8.482	8.482	0.000	2835539519	500.000	500
42 Aroclor 1254 (4)	8.800	8.800	0.000	2682999776	500.000	500
43 Aroclor 1254 (5)	9.118	9.118	0.000	1850878779	500.000	500



Data File: /chem1/SV04/GC\_31.i/170519.b/b17051907.d  
Date : 19-MAY-2017 13:47  
Client ID:  
Sample Info: 1221/54 P0517173

Instrument: GC\_31.i  
Operator: 944  
Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_31.i/170519.b/b17051908.d  
 Report Date: 19-May-2017 16:10

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EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170519.b/b17051908.d  
 Lab Smp Id:  
 Inj Date : 19-MAY-2017 14:06  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : 1232/62 P051717K  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Meth Date : 19-May-2017 16:10 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 8 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1232\_1262.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

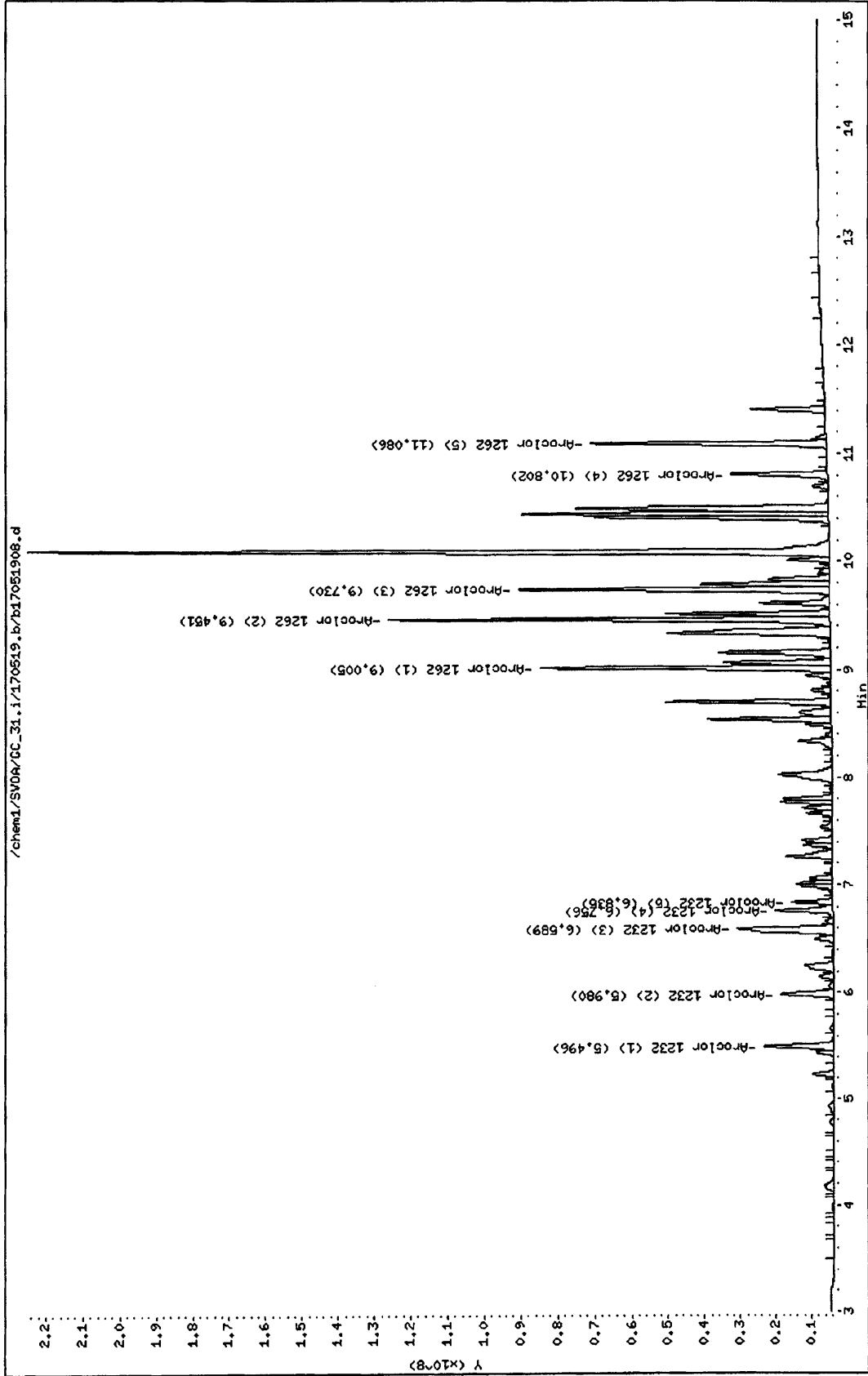
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
M 20 Aroclor-1232				4769956288	500.000	500
21 Aroclor 1232 (1)	5.496	5.496	0.000	956724222	500.000	500
22 Aroclor 1232 (2)	5.980	5.980	0.000	784483600	500.000	500
23 Aroclor 1232 (3)	6.589	6.589	0.000	1780325620	500.000	500
24 Aroclor 1232 (4)	6.756	6.756	0.000	762214011	500.000	500
25 Aroclor 1232 (5)	6.835	6.835	0.000	486208835	500.000	500
M 44 Aroclor-1262				15625344986	500.000	500
45 Aroclor 1262 (1)	9.005	9.005	0.000	3313451370	500.000	500
46 Aroclor 1262 (2)	9.451	9.451	0.000	4945548218	500.000	500
47 Aroclor 1262 (3)	9.730	9.730	0.000	3529461307	500.000	500
48 Aroclor 1262 (4)	10.802	10.802	0.000	1187532781	500.000	500
49 Aroclor 1262 (5)	11.086	11.086	0.000	2649351309	500.000	500



Data File: /chem1/SV04/GC\_31.i/170519.b/b17051908.d  
Date : 19-HWY-2017 14:06  
Client ID:  
Sample Info: 1232/62 P051717K

Instrument: GC\_31.i  
Operator: 944  
Column diameter: 2.00

Column phase:





Data File: /chem1/SVOA/GC\_31.i/170519.b/b17051909.d  
 Report Date: 19-May-2017 16:10

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EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170519.b/b17051909.d  
 Lab Smp Id:  
 Inj Date : 19-MAY-2017 14:25  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : 1248/68 P051717L  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Meth Date : 19-May-2017 16:10 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 9 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1248\_1268.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
M 32 Aroclor-1248				5947672523	500.000	500
33 Aroclor 1248 (1)	6.587	6.587	0.000	1885494046	500.000	500
34 Aroclor 1248 (2)	6.757	6.757	0.000	739506619	500.000	500
35 Aroclor 1248 (3)	6.836	6.836	0.000	420644471	500.000	500
36 Aroclor 1248 (4)	7.259	7.259	0.000	1873190797	500.000	500
37 Aroclor 1248 (5)	7.363	7.363	0.000	1028836590	500.000	500
M 50 Aroclor-1268				47563642369	500.000	500
51 Aroclor 1268 (1)	10.433	10.433	0.000	10221046126	500.000	500
52 Aroclor 1268 (2)	10.478	10.478	0.000	9481546395	500.000	500
53 Aroclor 1268 (3)	10.694	10.694	0.000	6490720964	500.000	500
54 Aroclor 1268 (4)	11.088	11.088	0.000	2946812800	500.000	500
55 Aroclor 1268 (5)	11.404	11.404	0.000	18423516083	500.000	500

Data File: /chem1/SVDA/GC\_31.i/170519.b/b17051909.d

Date : 19-MAY-2017 14:25

Client ID:

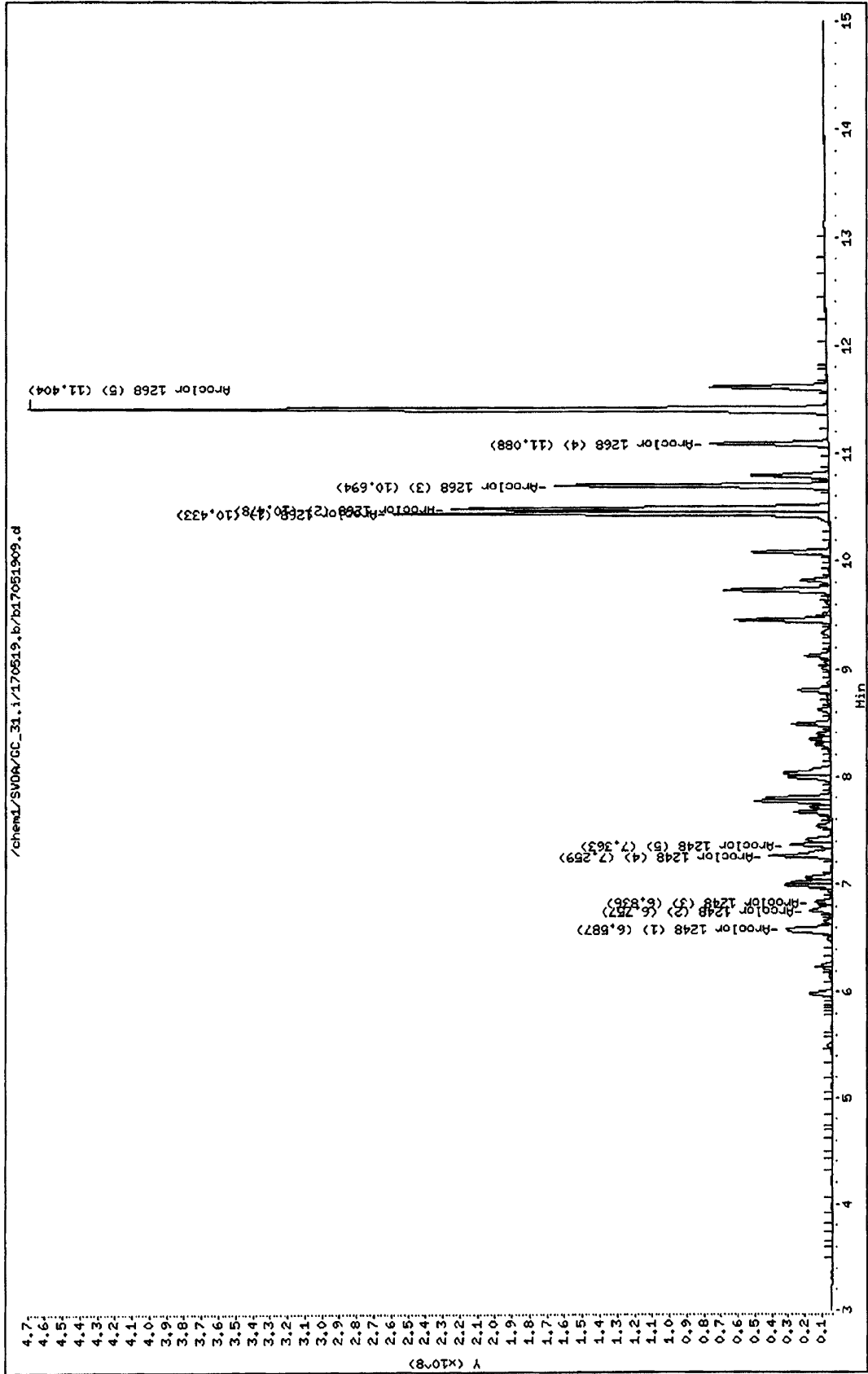
Sample Info: 1248/68 P051717L

Instrument: GC\_31.i

Operator: 944

Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_31.i/170519.b/b17051910.d  
 Report Date: 19-May-2017 16:10

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EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170519.b/b17051910.d  
 Lab Smp Id:  
 Inj Date : 19-MAY-2017 14:44  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : 1242 P051717M  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170519.b/b8082-n2.m  
 Meth Date : 19-May-2017 16:10 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 10 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1242.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

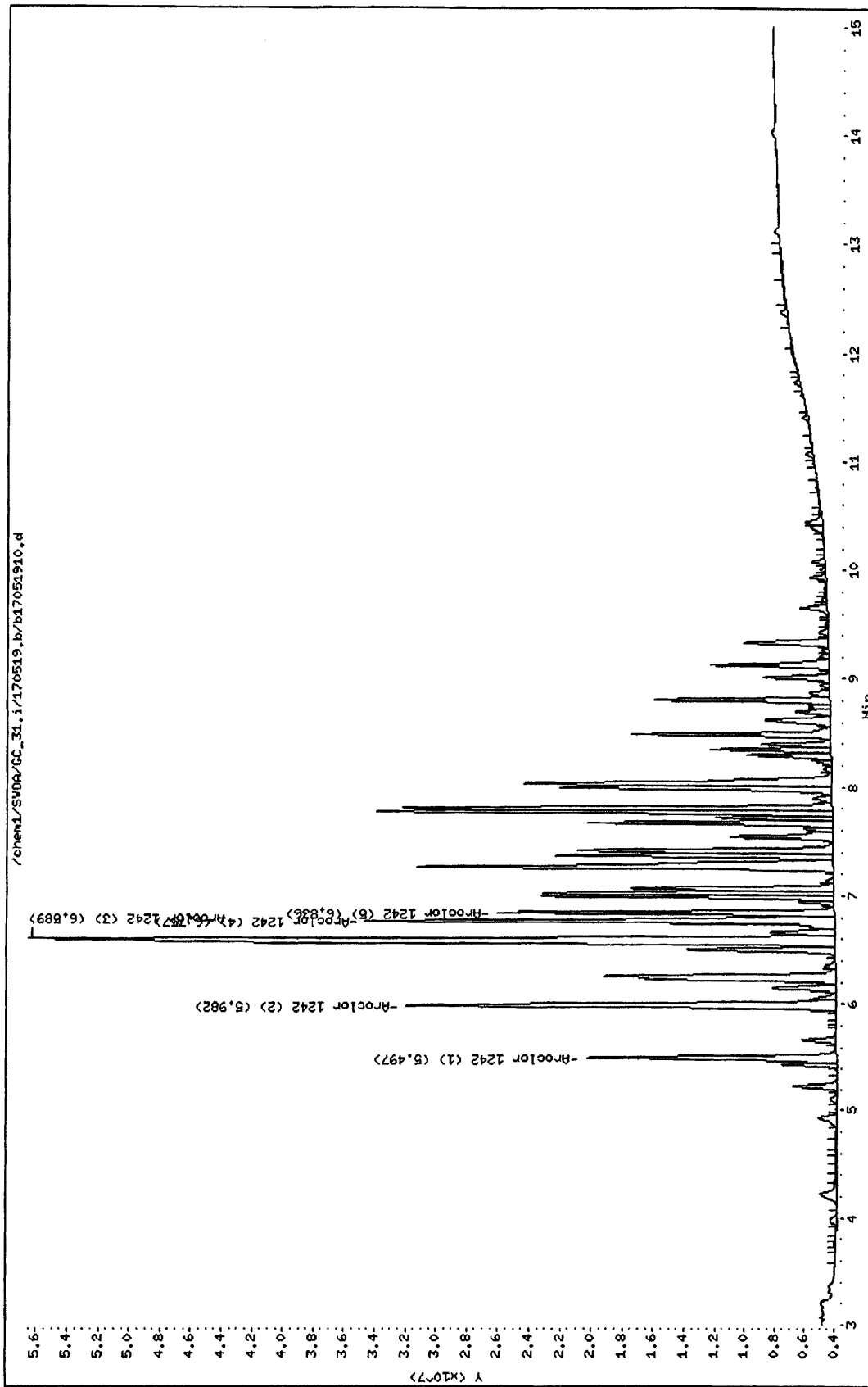
Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
M 26 Aroclor-1242				8005689190	500.000	500
27 Aroclor 1242 (1)	5.497	5.497	0.000	789658565	500.000	500
28 Aroclor 1242 (2)	5.982	5.982	0.000	1464748640	500.000	500
29 Aroclor 1242 (3)	6.589	6.589	0.000	3389537761	500.000	500
30 Aroclor 1242 (4)	6.757	6.757	0.000	1456721500	500.000	500
31 Aroclor 1242 (5)	6.836	6.836	0.000	905022724	500.000	500

Data File: /chem1/SVDA/GC\_31.i/170519.b/b17051910.d  
Date : 19-MAY-2017 14:44  
Client ID:  
Sample Info: 1242 P051717H

Instrument: GC\_31.i  
Operator: 944  
Column diameter: 2.00

Column phase:



# INITIAL CALIBRATION QUALITY CONTROL SUMMARY FOR METHOD: EPA 8082

ICAL WORK ORDER: 099-15-958-427-6572  
ICAL BATCH ID: 1705231001  
INSTRUMENT: GC 58

ANALYZED BY: 944  
ICAL D/T ANALYZED: 2017-05-23 16:52  
REVIEWED BY: 27  
D/T REVIEWED: 2017-05-26 13:15

COMPOUND	COMP. TYPE	CALIB. MODEL	1	2	3	4	5	6	7	8	9	Avg. RF	Min. RF	%RSD CL	R or R <sup>2</sup> CL	R or R <sup>2</sup> CL	STATUS
Atroclor-1016	C	Avg RF	12,629,020	11,845,920	11,407,396	11,131,629	10,519,185					11,506,630	0.00	7	0-20		PASS
Atroclor-1260	C	Avg RF	12,025,801	11,613,887	11,485,667	11,435,616	11,124,282					11,537,050	0.00	3	0-20		PASS

**Data Files:**

Level #	D/T Analyzed	Data File
1	2017-05-23 16:52	/chem1/SVOA/GC_58/170523/b/1705232117052321
2	2017-05-23 17:09	/chem1/SVOA/GC_58/170523/b/1705232217052322
3	2017-05-23 17:27	/chem1/SVOA/GC_58/170523/b/1705232317052323
4	2017-05-23 17:45	/chem1/SVOA/GC_58/170523/b/1705232417052324
5	2017-05-23 18:03	/chem1/SVOA/GC_58/170523/b/1705232517052325

LR - E: Linear Regression (Equal Weight)      LR - IC: Linear Regression (Inverse Concentration Weight)      LR - ISC: Linear Regression (Inverse Square Concentration Weight)  
Avg RF: Average Response Factor      QR - E: Quadratic Regression (Equal Weight)

# INITIAL CALIBRATION VERIFICATION QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**ICV WORK ORDER:** 099-15-958-427-6572

**INITIAL BATCH:** 1705231001

**INSTRUMENT:** GC 58

**ANALYZED BY:** 944

**D/T ANALYZED:**

**INITIAL:** 2017-05-23 16:52

**ICV:** 2017-05-23 18:21

**REVIEWED BY:** 27

**D/T REVIEWED:** 2017-05-26 13:15

**DATA FILE:** /chem1/SVOA/GC\_58/170523/b1705232617052326

<u>COMPOUND NAME</u>	<u>COMP TYPE</u>	<u>CALIB MODEL</u>	<u>MIN RF</u>	<u>AVG RF</u>	<u>ICV RF</u>	<u>AMOUNT</u>	<u>ICV CONC</u>	<u>ICV %D</u>	<u>ICV %D CL</u>	<u>STATUS</u>
Aroclor-1016	C	Avg Resp	0.00	11506630.029	10890471.982			5	0-15	PASS
Aroclor-1260	C	Avg Resp	0.00	11537050.448	11170168.146			3	0-15	PASS

MIN RF: Method Specified Minimum Response Factor

Report Date : 24-May-2017 09:27

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## Eurofins Calscience

## INITIAL CALIBRATION DATA

Start Cal Date : 04-OCT-2016 21:49  
 End Cal Date : 23-MAY-2017 19:33  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP Genie  
 Method file : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Cal Date : 24-May-2017 09:23 src3  
 Curve Type : Average

## Calibration File Names:

Level 1: /chem1/SVOA/GC\_58.i/170523.b/b17052321.d  
 Level 2: /chem1/SVOA/GC\_58.i/170523.b/b17052322.d  
 Level 3: /chem1/SVOA/GC\_58.i/170523.b/b17052330.d  
 Level 4: /chem1/SVOA/GC\_58.i/170523.b/b17052324.d  
 Level 5: /chem1/SVOA/GC\_58.i/170523.b/b17052325.d

Compound	100.000	250.000	500.000	750.000	2000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
M 2 Aroclor-1016	12629020	11845920	11407396	11131629	10519185	11506630	7
3 Aroclor 1016 (1)	1275851	1161391	1113125	1071210	992956	1122907	9
4 Aroclor 1016 (2)	2377611	2184364	2068157	2011631	1881082	2104569	9
5 Aroclor 1016 (3)	5059544	4830067	4700531	4612008	4400578	4720545	5
6 Aroclor 1016 (4)	2197630	2055262	1969215	1911632	1795295	1985807	8
7 Aroclor 1016 (5)	1718384	1614836	1556368	1525148	1449274	1572802	6
M 8 Aroclor-1260	12025801	11613887	11485667	11435616	11124282	11537050	3
9 Aroclor 1260 (1)	3691129	3515766	3438557	3387146	3217391	3449998	5
10 Aroclor 1260 (2)	2659167	2573955	2550872	2540602	2476520	2560223	3
11 Aroclor 1260 (3)	2908393	2863443	2866327	2871017	2822302	2866296	1
12 Aroclor 1260 (4)	833938	805816	804541	807016	800493	810361	2
13 Aroclor 1260 (5)	1933175	1854906	1825369	1829835	1807576	1850172	3
M 14 Aroclor-1221	++++	++++	3462658	++++	++++	3462658	0
15 Aroclor 1221 (1)	++++	++++	518215	++++	++++	518215	0
16 Aroclor 1221 (2)	++++	++++	663496	++++	++++	663496	0
17 Aroclor 1221 (3)	++++	++++	434398	++++	++++	434398	0
18 Aroclor 1221 (4)	++++	++++	1576396	++++	++++	1576396	0
19 Aroclor 1221 (5)	++++	++++	270153	++++	++++	270153	0
M 20 Aroclor-1232	++++	++++	6456218	++++	++++	6456218	0
21 Aroclor 1232 (1)	++++	++++	1260285	++++	++++	1260285	0
22 Aroclor 1232 (2)	++++	++++	1099941	++++	++++	1099941	0
23 Aroclor 1232 (3)	++++	++++	2339921	++++	++++	2339921	0

Report Date : 24-May-2017 09:27

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## Eurofins Calscience

## INITIAL CALIBRATION DATA

Start Cal Date : 04-OCT-2016 21:49  
 End Cal Date : 23-MAY-2017 19:33  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP Genie  
 Method file : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Cal Date : 24-May-2017 09:23 src3  
 Curve Type : Average

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	750.000 Level 4	2000.000 Level 5	RRF	% RSD
24 Aroclor 1232 (4)	++++	++++	985728	++++	++++	985728	0
25 Aroclor 1232 (5)	++++	++++	770342	++++	++++	770342	0
M 26 Aroclor-1242	++++	++++	10779025	++++	++++	10779025	0
27 Aroclor 1242 (1)	++++	++++	1016454	++++	++++	1016454	0
28 Aroclor 1242 (2)	++++	++++	1974329	++++	++++	1974329	0
29 Aroclor 1242 (3)	++++	++++	4443459	++++	++++	4443459	0
30 Aroclor 1242 (4)	++++	++++	1865322	++++	++++	1865322	0
31 Aroclor 1242 (5)	++++	++++	1479460	++++	++++	1479460	0
M 32 Aroclor-1248	++++	++++	8585613	++++	++++	8585613	0
33 Aroclor 1248 (1)	++++	++++	2474351	++++	++++	2474351	0
34 Aroclor 1248 (2)	++++	++++	1190568	++++	++++	1190568	0
35 Aroclor 1248 (3)	++++	++++	930097	++++	++++	930097	0
36 Aroclor 1248 (4)	++++	++++	1855416	++++	++++	1855416	0
37 Aroclor 1248 (5)	++++	++++	2135181	++++	++++	2135181	0
M 38 Aroclor-1254	++++	++++	13026379	++++	++++	13026379	0
39 Aroclor 1254 (1)	++++	++++	2214930	++++	++++	2214930	0
40 Aroclor 1254 (2)	++++	++++	1158657	++++	++++	1158657	0
41 Aroclor 1254 (3)	++++	++++	3844996	++++	++++	3844996	0
42 Aroclor 1254 (4)	++++	++++	2737908	++++	++++	2737908	0
43 Aroclor 1254 (5)	++++	++++	3069887	++++	++++	3069887	0
M 44 Aroclor-1262	++++	++++	15048272	++++	++++	15048272	0
45 Aroclor 1262 (1)	++++	++++	2890494	++++	++++	2890494	0
46 Aroclor 1262 (2)	++++	++++	3951702	++++	++++	3951702	0
47 Aroclor 1262 (3)	++++	++++	3759808	++++	++++	3759808	0
48 Aroclor 1262 (4)	++++	++++	1278171	++++	++++	1278171	0
49 Aroclor 1262 (5)	++++	++++	3168097	++++	++++	3168097	0
M 50 Aroclor-1268	++++	++++	53468144	++++	++++	53468144	0
51 Aroclor 1268 (1)	++++	++++	8674570	++++	++++	8674570	0
52 Aroclor 1268 (2)	++++	++++	11177203	++++	++++	11177203	0



Report Date : 24-May-2017 09:27

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## Eurofins Calscience

## INITIAL CALIBRATION DATA

Start Cal Date : 04-OCT-2016 21:49  
 End Cal Date : 23-MAY-2017 19:33  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP Genie  
 Method file : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Cal Date : 24-May-2017 09:23 src3  
 Curve Type : Average

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	750.000 Level 4	2000.000 Level 5	RRF	% RSD
53 Aroclor 1268 (3)	+++++	+++++	7082776	+++++	+++++	7082776	0
54 Aroclor 1268 (4)	+++++	+++++	3296595	+++++	+++++	3296595	0
55 Aroclor 1268 (5)	+++++	+++++	23237000	+++++	+++++	23237000	0
T 1 2,4,5,6-Tetrachloro-m-xylene	63321784	63478698	63826321	63339394	62957426	63384725	0
T 56 Decachlorobiphenyl	61719589	61974262	62633351	62943146	62919173	62437904	1

Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052326.d  
 Report Date: 05/24/2017 09:23

Eurofins CalScience  
 Calibration Verification Report

Instrument ID: GC\_58.i                      Injection Date and Time: 23-MAY-2017 18:21  
 Sample Name: PCB ICV 500 PPB P051717H      Initial Calibration Date(s): 04-OCT-2016 23-MAY-2017  
 Sublist used: p1016\_1260.sub              Initial Calibration Time(s): 21:49 19:33  
 Method used: /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
Aroclor-1016	11506630.029	10890471.982	0.01	5	15	Averaged
Aroclor 1016 (1)	1122906.647	1035817.970	0.01	8	15	Averaged
Aroclor 1016 (2)	2104568.955	1977536.926	0.01	6	15	Averaged
Aroclor 1016 (3)	4720545.338	4517671.304	0.01	4	15	Averaged
Aroclor 1016 (4)	1985806.908	1875226.762	0.01	6	15	Averaged
Aroclor 1016 (5)	1572802.181	1484219.020	0.01	6	15	Averaged
Aroclor 1260 (4)	810360.902	741063.920	0.01	9	15	Averaged
Aroclor-1260	11537050.448	11170168.146	0.01	3	15	Averaged
Aroclor 1260 (5)	1850172.206	1784845.724	0.01	4	15	Averaged
Aroclor 1260 (1)	3449997.793	3437974.978	0.01	0	15	Averaged
Aroclor 1260 (2)	2560223.179	2427602.878	0.01	5	15	Averaged
Aroclor 1260 (3)	2866296.368	2778680.646	0.01	3	15	Averaged
Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
2,4,5,6-Tetrachloro-m-xylene	63384724.531	63028884.615	0.01	1	15	Averaged
Decachlorobiphenyl	62437904.265	63909836.622	0.01	-2	15	Averaged

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Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052321.d  
 Report Date: 24-May-2017 09:21

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052321.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 16:52  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB ICAL-1 100 PPB P051717F  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 16:52 Cal File: b17052321.d  
 Als bottle: 21 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.742	4.738	0.004	1266435675	20.0000	20.0
M 2 Aroclor-1016				1262902010	100.000	110
3 Aroclor 1016 (1)	5.453	5.450	0.003	127585119	100.000	114
4 Aroclor 1016 (2)	5.999	5.995	0.004	237761116	100.000	113
5 Aroclor 1016 (3)	6.582	6.579	0.003	505954363	100.000	107
6 Aroclor 1016 (4)	6.753	6.749	0.004	219763021	100.000	111
7 Aroclor 1016 (5)	6.879	6.876	0.003	171838391	100.000	109
M 8 Aroclor-1260				1202580069	100.000	104
9 Aroclor 1260 (1)	9.063	9.056	0.007	369112907	100.000	107
10 Aroclor 1260 (2)	9.575	9.569	0.006	265916660	100.000	104
11 Aroclor 1260 (3)	9.915	9.908	0.007	290839258	100.000	101
12 Aroclor 1260 (4)	11.089	11.081	0.008	83393780	100.000	103
13 Aroclor 1260 (5)	11.271	11.264	0.007	193317464	100.000	104
T 56 Decachlorobiphenyl	11.925	11.920	0.005	1234391790	20.0000	19.8

Data File: /chem1/SVDA/CC\_58.i/170523.b/b17052321.d

Date : 23-MAY-2017 16:52

Client ID:

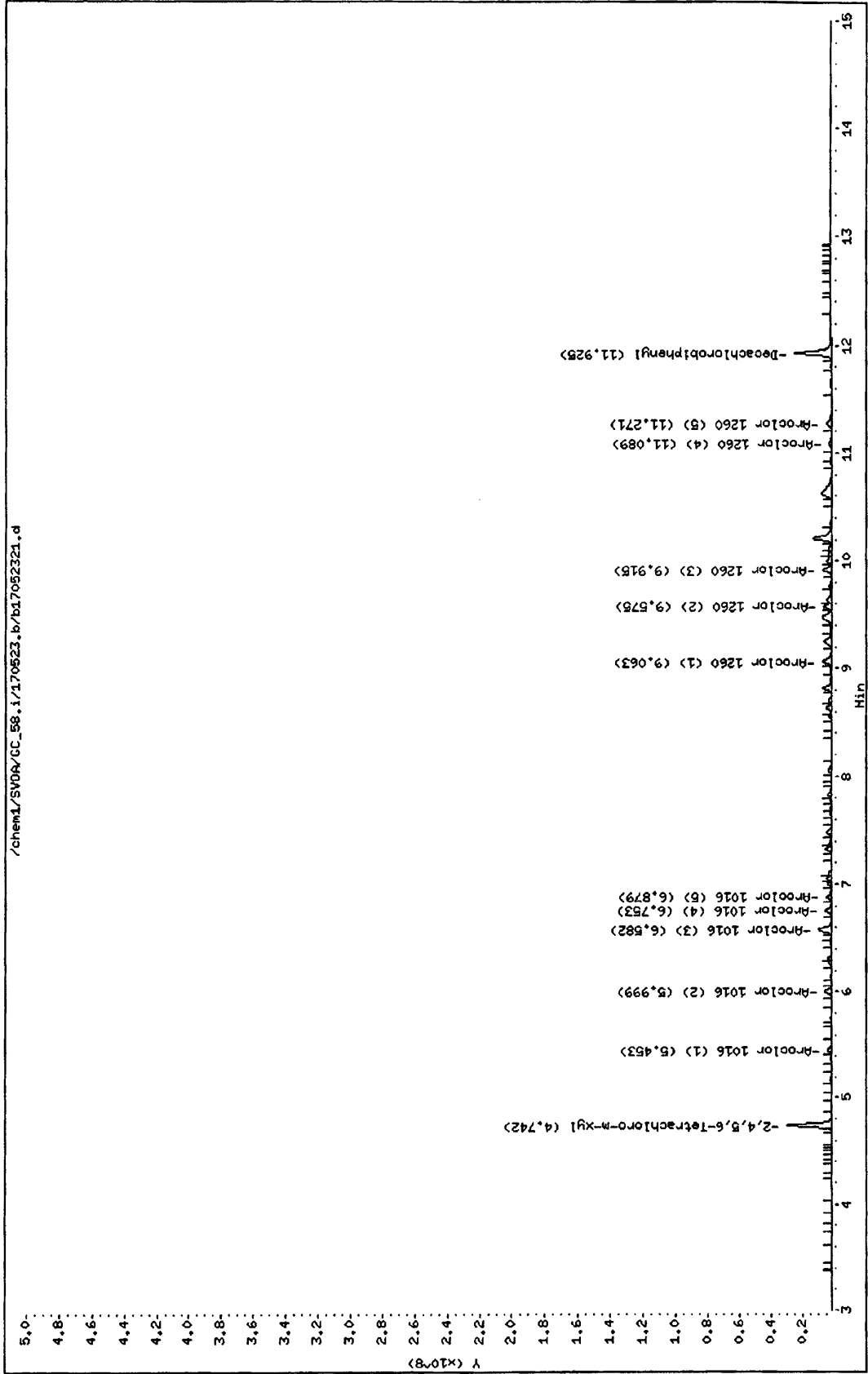
Sample Info: PCB 1CAL-1 100 PPB Po51717F

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052322.d  
 Report Date: 24-May-2017 09:21

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052322.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 17:09  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB ICAL-2 250 PPB P051717E  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 17:09 Cal File: b17052322.d  
 Als bottle: 22 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.739	4.738	0.001	3173934907	50.0000	50.1
M 2 Aroclor-1016				2961479920	250.000	257
3 Aroclor 1016 (1)	5.450	5.450	0.000	290347764	250.000	258
4 Aroclor 1016 (2)	5.996	5.995	0.001	546090953	250.000	259
5 Aroclor 1016 (3)	6.579	6.579	0.000	1207516690	250.000	256
6 Aroclor 1016 (4)	6.749	6.749	0.000	513815568	250.000	259
7 Aroclor 1016 (5)	6.876	6.876	0.000	403708945	250.000	257
M 8 Aroclor-1260				2903471671	250.000	252
9 Aroclor 1260 (1)	9.058	9.056	0.002	878941559	250.000	255
10 Aroclor 1260 (2)	9.571	9.569	0.002	643488861	250.000	251
11 Aroclor 1260 (3)	9.910	9.908	0.002	715860856	250.000	250
12 Aroclor 1260 (4)	11.084	11.081	0.003	201454010	250.000	248
13 Aroclor 1260 (5)	11.267	11.264	0.003	463726385	250.000	251
T 56 Decachlorobiphenyl	11.922	11.920	0.002	3098713090	50.0000	49.6

Data File: /chem1/SVDA/GC\_58.i/170523.b/b17052322.d

Date : 23-MAY-2017 17:09

Client ID:

Sample Info: PCB ICAL-2 250 PPS P051717E

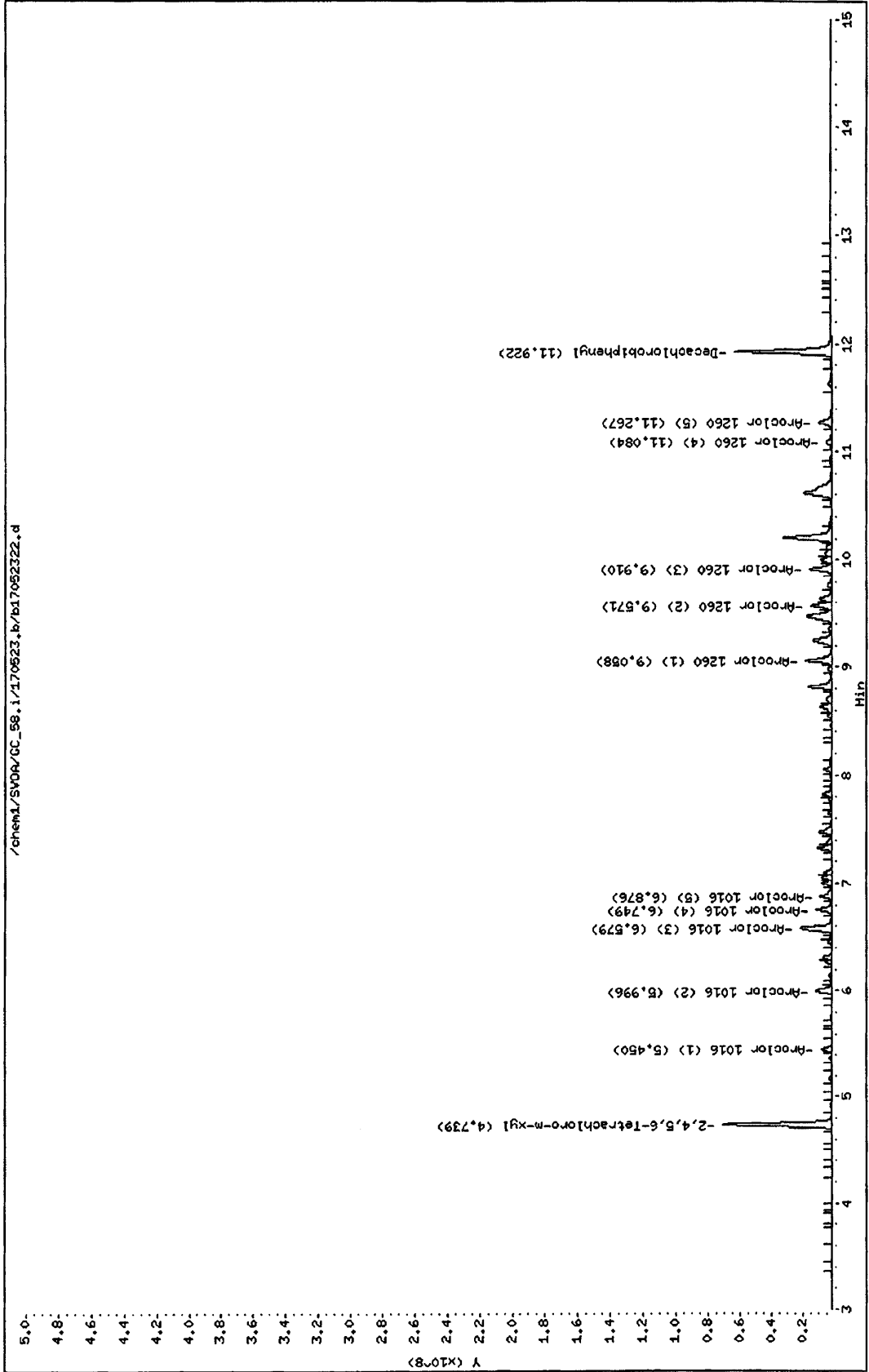
Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:

/chem1/SVDA/GC\_58.i/170523.b/b17052322.d



Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052323.d  
 Report Date: 24-May-2017 09:21

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052323.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 17:27  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB ICAL-3 500 PPB P051717D  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 23 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.738	4.738	0.000	6382632089	100.000	101
M 2 Aroclor-1016				5703698032	500.000	496
3 Aroclor 1016 (1)	5.450	5.450	0.000	556562512	500.000	496
4 Aroclor 1016 (2)	5.995	5.995	0.000	1034078575	500.000	491
5 Aroclor 1016 (3)	6.579	6.579	0.000	2350265312	500.000	498
6 Aroclor 1016 (4)	6.749	6.749	0.000	984607395	500.000	496
7 Aroclor 1016 (5)	6.875	6.876	-0.001	778184238	500.000	495
M 8 Aroclor-1260				5742833471	500.000	498
9 Aroclor 1260 (1)	9.056	9.057	-0.001	1719278633	500.000	498
10 Aroclor 1260 (2)	9.569	9.570	-0.001	1275435860	500.000	498
11 Aroclor 1260 (3)	9.907	9.908	-0.001	1433163526	500.000	500
12 Aroclor 1260 (4)	11.081	11.082	-0.001	402270729	500.000	496
13 Aroclor 1260 (5)	11.264	11.265	-0.001	912684723	500.000	493
T 56 Decachlorobiphenyl	11.919	11.920	-0.001	6263335120	100.000	100

Data File: /chem1/SVDA/GC\_58.i/170523.b/b17052323.d

Date : 23-MAY-2017 17:27

Client ID:

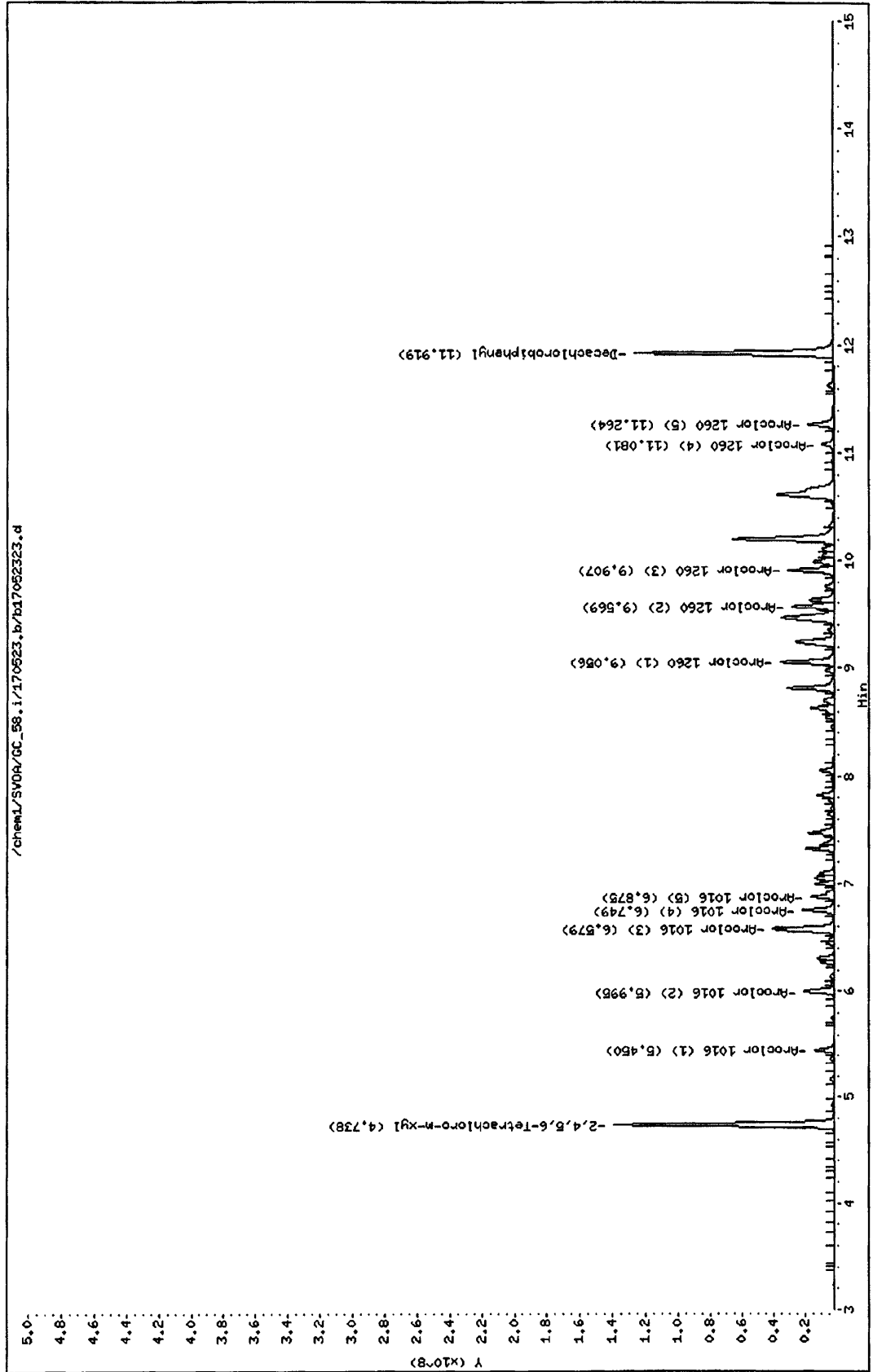
Sample Info: PCB ICAL-3 500 PPB P051717D

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:





Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052324.d  
 Report Date: 24-May-2017 09:21

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052324.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 17:45  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB ICAL-4 750 PPB P051717C  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 17:45 Cal File: b17052324.d  
 Als bottle: 24 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.738	4.738	0.000	9500909148	150.000	150
M 2 Aroclor-1016				8348721824	750.000	726
3 Aroclor 1016 (1)	5.449	5.450	-0.001	803407281	750.000	715
4 Aroclor 1016 (2)	5.994	5.995	-0.001	1508723220	750.000	717
5 Aroclor 1016 (3)	6.578	6.579	-0.001	3459005906	750.000	733
6 Aroclor 1016 (4)	6.748	6.749	-0.001	1433724096	750.000	722
7 Aroclor 1016 (5)	6.875	6.876	-0.001	1143861321	750.000	727
M 8 Aroclor-1260				8576711934	750.000	743
9 Aroclor 1260 (1)	9.054	9.057	-0.003	2540359265	750.000	736
10 Aroclor 1260 (2)	9.568	9.570	-0.002	1905451840	750.000	744
11 Aroclor 1260 (3)	9.906	9.908	-0.002	2153262474	750.000	751
12 Aroclor 1260 (4)	11.079	11.082	-0.003	605262114	750.000	747
13 Aroclor 1260 (5)	11.263	11.265	-0.002	1372376241	750.000	742
T 56 Decachlorobiphenyl	11.918	11.920	-0.002	9441471856	150.000	151

Data File: /chem1/SV06/GC\_58.i/170523.b/b17052324.d

Date : 23-MAY-2017 17:45

Client ID:

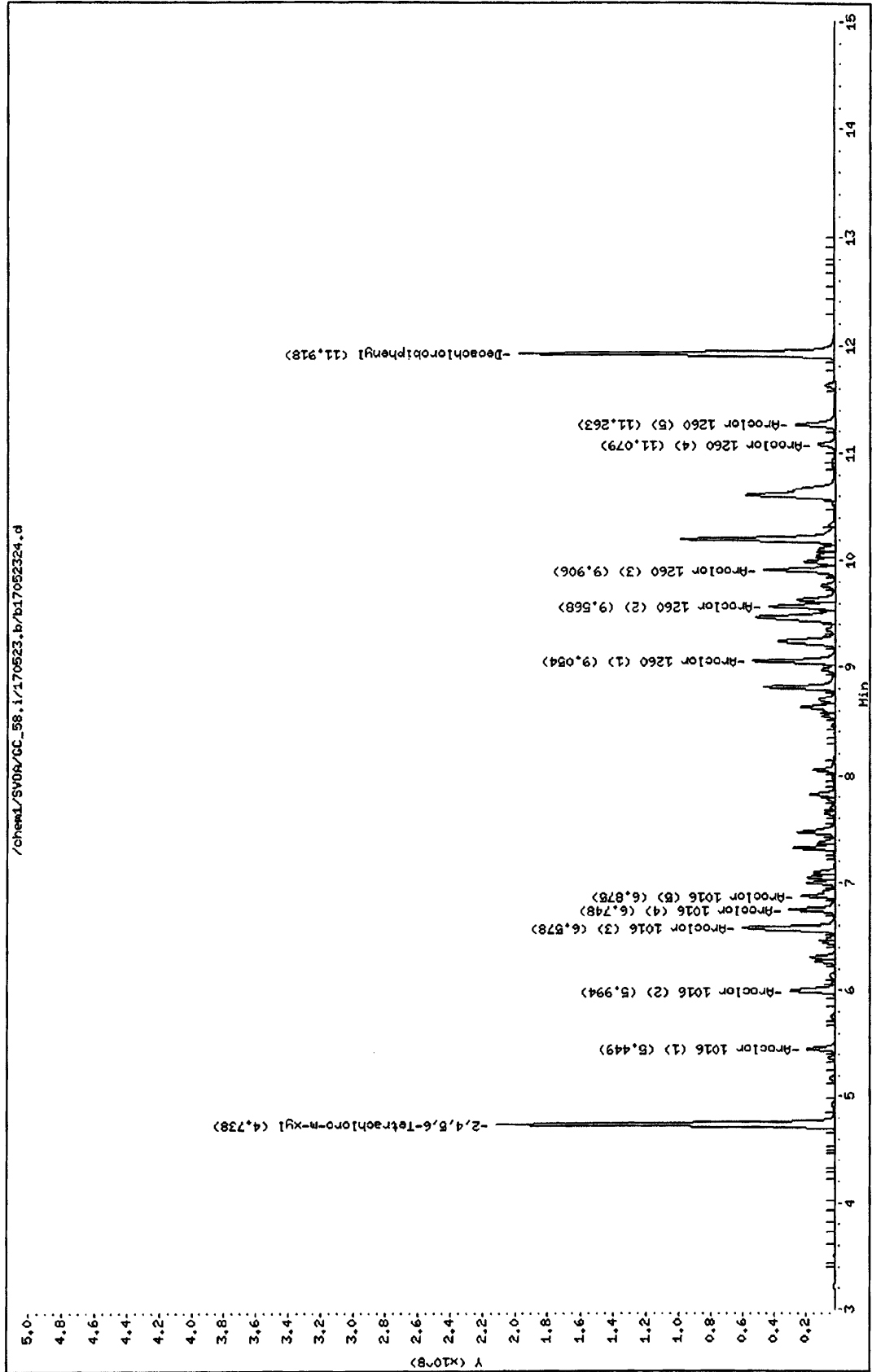
Sample Info: PCB ICAL-4 750 PPB POS1717C

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052325.d  
 Report Date: 24-May-2017 09:21

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052325.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 18:03  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB ICAL-5 2000 PPB P051717B  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 18:03 Cal File: b17052325.d  
 Als bottle: 25 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.736	4.738	-0.002	25182970224	400.000	397
M 2 Aroclor-1016				21038370403	2000.00	1830
3 Aroclor 1016 (1)	5.448	5.450	-0.002	1985912516	2000.00	1770
4 Aroclor 1016 (2)	5.994	5.995	-0.001	3762163387	2000.00	1790
5 Aroclor 1016 (3)	6.577	6.579	-0.002	8801155601	2000.00	1860
6 Aroclor 1016 (4)	6.748	6.749	-0.001	3590590278	2000.00	1810
7 Aroclor 1016 (5)	6.874	6.876	-0.002	2898548620	2000.00	1840
M 8 Aroclor-1260				22248564025	2000.00	1930
9 Aroclor 1260 (1)	9.053	9.057	-0.004	6434781416	2000.00	1860
10 Aroclor 1260 (2)	9.566	9.570	-0.004	4953039353	2000.00	1930
11 Aroclor 1260 (3)	9.903	9.908	-0.005	5644604301	2000.00	1970
12 Aroclor 1260 (4)	11.076	11.082	-0.006	1600986118	2000.00	1980
13 Aroclor 1260 (5)	11.258	11.265	-0.007	3615152837	2000.00	1950
T 56 Decachlorobiphenyl	11.916	11.920	-0.004	25167669245	400.000	403 (A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem1/SVDR/GC\_58.i/170523.b/b17052325.d

Date : 23-MAY-2017 18:03

Client ID:

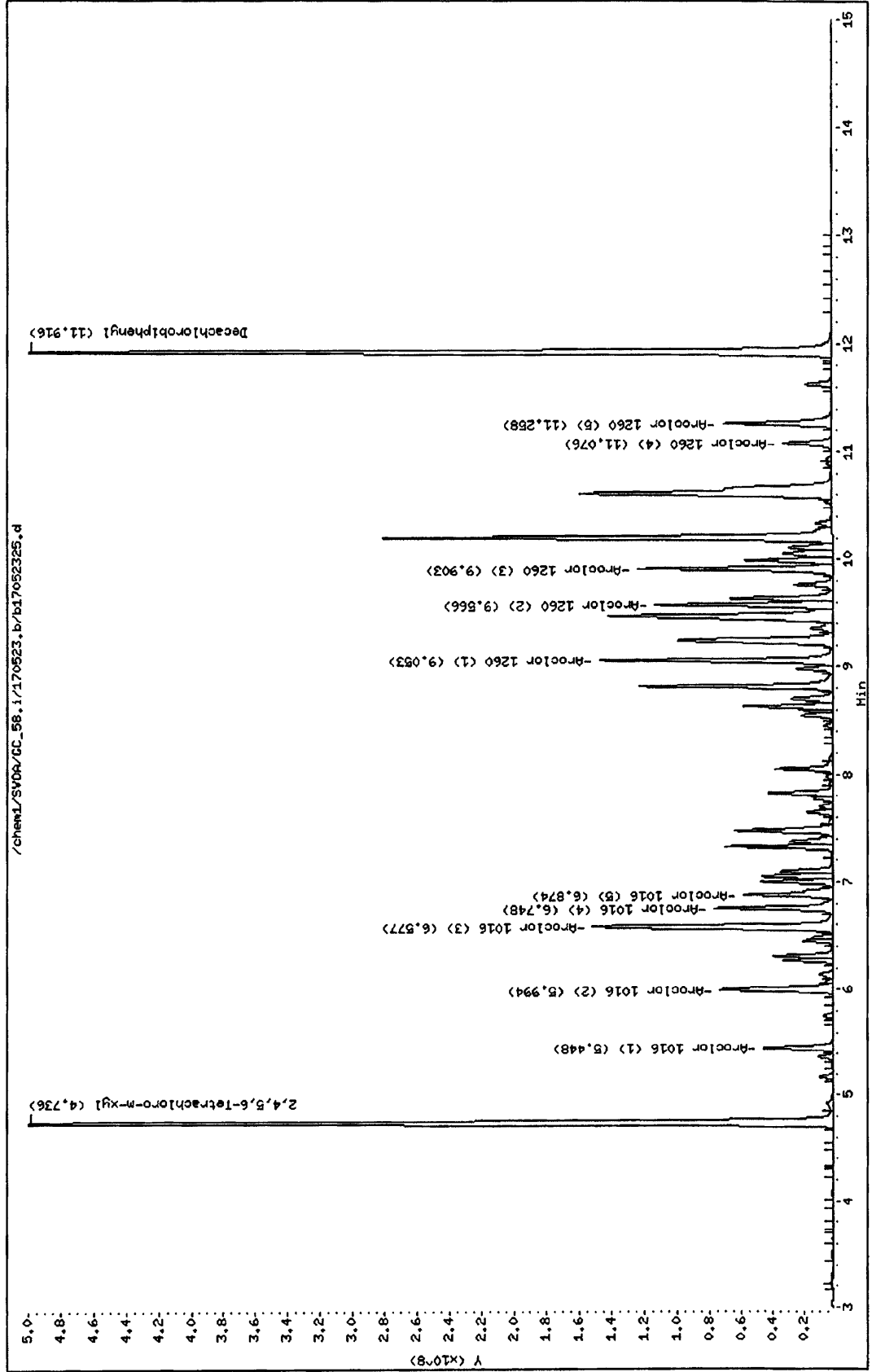
Sample Info: PCB ICAL-5 2000 PPB P051717B

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052326.d  
 Report Date: 24-May-2017 09:21

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052326.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 18:21  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB ICV 500 PPB P051717H  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 18:03 Cal File: b17052325.d  
 Als bottle: 26 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.737	4.738	-0.001	6302888462	100.000	99.4
M 2 Aroclor-1016				5445235991	500.000	473
3 Aroclor 1016 (1)	5.449	5.450	-0.001	517908985	500.000	461
4 Aroclor 1016 (2)	5.994	5.995	-0.001	988768463	500.000	470
5 Aroclor 1016 (3)	6.578	6.579	-0.001	2258835652	500.000	478
6 Aroclor 1016 (4)	6.748	6.749	-0.001	937613381	500.000	472
7 Aroclor 1016 (5)	6.875	6.876	-0.001	742109510	500.000	472
M 8 Aroclor-1260				5585084073	500.000	484
9 Aroclor 1260 (1)	9.054	9.056	-0.002	1718987489	500.000	498
10 Aroclor 1260 (2)	9.568	9.569	-0.001	1213801439	500.000	474
11 Aroclor 1260 (3)	9.906	9.908	-0.002	1389340323	500.000	485
12 Aroclor 1260 (4)	11.078	11.081	-0.003	370531960	500.000	457
13 Aroclor 1260 (5)	11.260	11.264	-0.004	892422862	500.000	482
T 56 Decachlorobiphenyl	11.917	11.920	-0.003	6390983662	100.000	102

Data File: /chem1/SVDR/GC\_58.i/170523.b/b17052326.d

Date : 23-MAY-2017 18:21

Client ID:

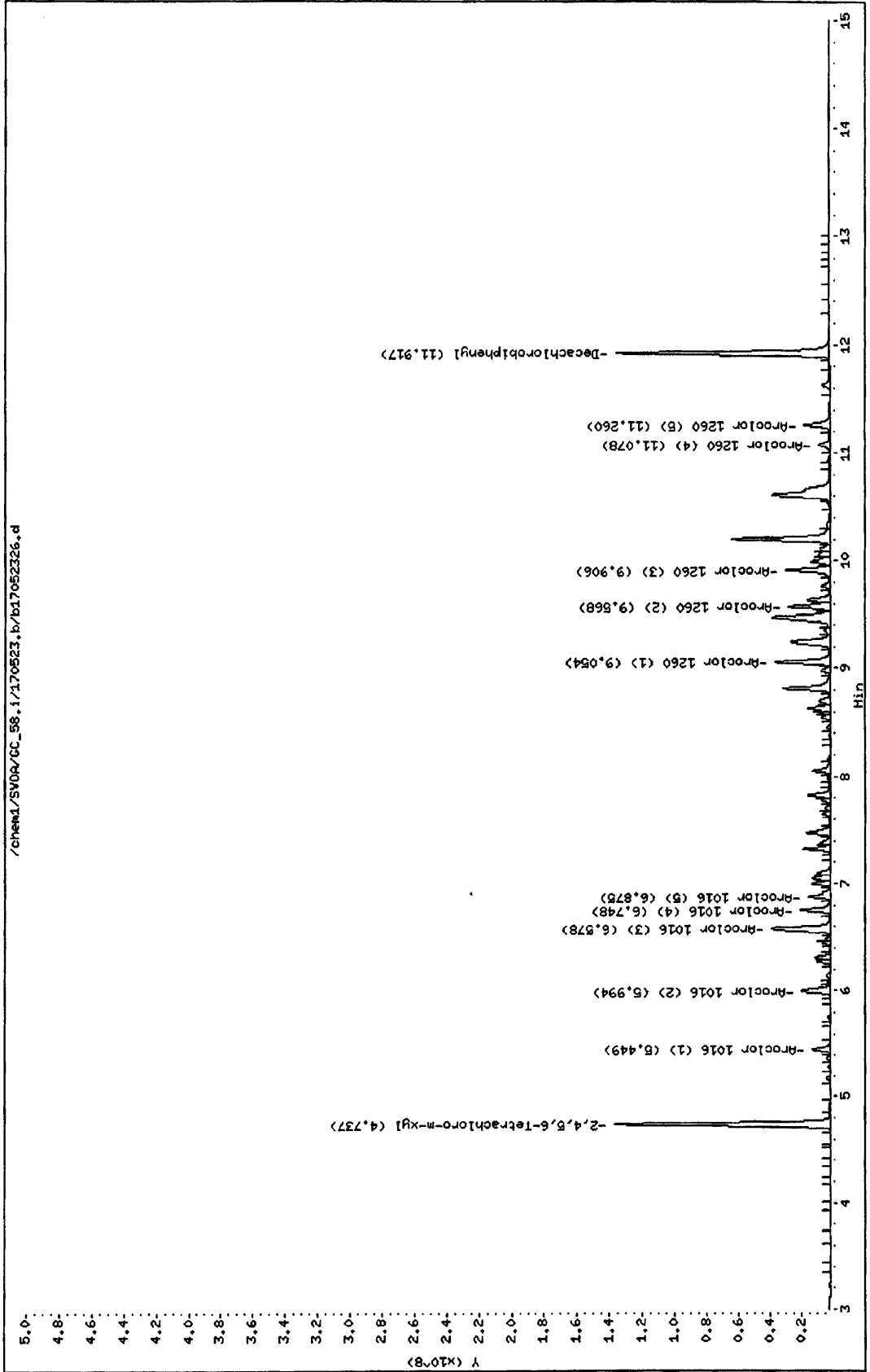
Sample Info: PCB ICV 500 PPB P061717H

Instrument: GC\_58.1

Operator: 944

Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052327.d  
 Report Date: 24-May-2017 09:21

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052327.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 18:39  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB 1221/54 500 PPB P051717J  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 27 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1221\_1254.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
M 14 Aroclor-1221				1731328772	500.000	500
15 Aroclor 1221 (1)	4.069	4.069	0.000	259107710	500.000	500
16 Aroclor 1221 (2)	5.169	5.169	0.000	331747886	500.000	500
17 Aroclor 1221 (3)	5.366	5.366	0.000	217198956	500.000	500
18 Aroclor 1221 (4)	5.449	5.449	0.000	788197780	500.000	500
19 Aroclor 1221 (5)	5.988	5.988	0.000	135076440	500.000	500
M 38 Aroclor-1254				6513189667	500.000	500
39 Aroclor 1254 (1)	7.824	7.824	0.000	1107465181	500.000	500
40 Aroclor 1254 (2)	8.120	8.120	0.000	579328550	500.000	500
41 Aroclor 1254 (3)	8.590	8.590	0.000	1922498149	500.000	500
42 Aroclor 1254 (4)	8.859	8.859	0.000	1368954174	500.000	500
43 Aroclor 1254 (5)	9.262	9.262	0.000	1534943613	500.000	500



Data File: /chem1/SV004/DC\_58.i/170523.b/b17052327.d

Date : 23-MAY-2017 18:39

Client ID:

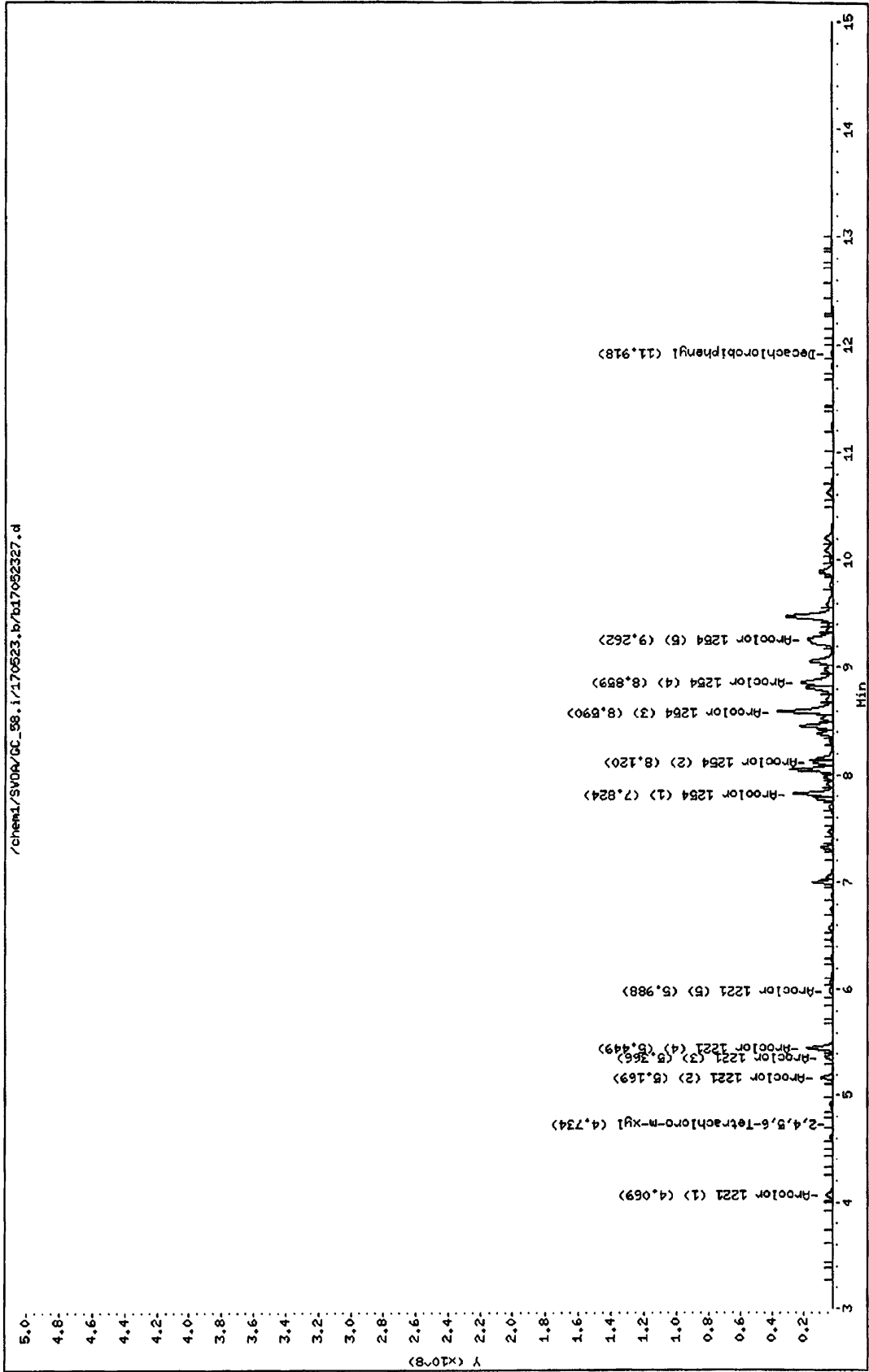
Sample Info: PCB 1221/54 500 PPB P051717J

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:





Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052328.d  
 Report Date: 24-May-2017 09:21

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052328.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 18:57  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB 1232/62 500 PPB P051717K  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 28 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1232\_1262.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
M 20 Aroclor-1232				3228108755	500.000	500
21 Aroclor 1232 (1)	5.450	5.450	0.000	630142373	500.000	500
22 Aroclor 1232 (2)	5.994	5.994	0.000	549970359	500.000	500
23 Aroclor 1232 (3)	6.578	6.578	0.000	1169960732	500.000	500
24 Aroclor 1232 (4)	6.749	6.749	0.000	492864101	500.000	500
25 Aroclor 1232 (5)	6.875	6.875	0.000	385171190	500.000	500
M 44 Aroclor-1262				7524136164	500.000	500
45 Aroclor 1262 (1)	9.056	9.056	0.000	1445246875	500.000	500
46 Aroclor 1262 (2)	9.569	9.569	0.000	1975851113	500.000	500
47 Aroclor 1262 (3)	9.907	9.907	0.000	1879904013	500.000	500
48 Aroclor 1262 (4)	11.081	11.081	0.000	639085749	500.000	500
49 Aroclor 1262 (5)	11.265	11.265	0.000	1584048414	500.000	500



Data File: /chem1/SVDR/GC\_58.i/170523.b/b17052328.d

Date : 23-MAY-2017 18:57

Client ID:

Sample Info: PCB 1232/62 500 PPB P051717K

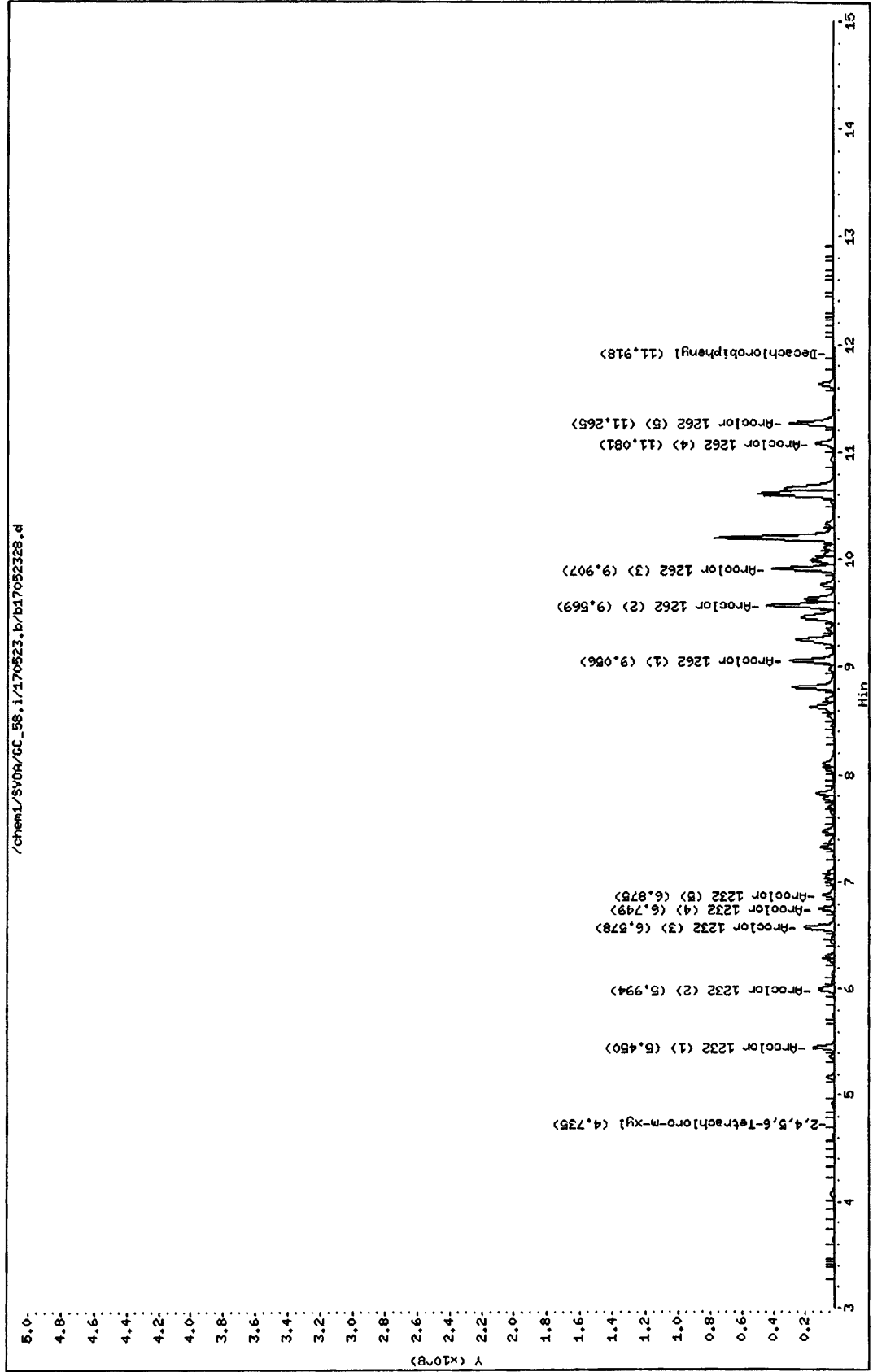
Column phase:

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

/chem1/SVDR/GC\_58.i/170523.b/b17052328.d



Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052329.d  
 Report Date: 24-May-2017 09:21

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052329.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 19:15  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB 1248/68 500 PPB P051717L  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 29 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1248\_1268.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RT	RESPONSE	AMOUNTS	
						CAL-AMT ( ppb)	ON-COL ( ppb)
M 32 Aroclor-1248					4292806725	500.000	500
33 Aroclor 1248 (1)	6.575	6.575	0.000		1237175702	500.000	500
34 Aroclor 1248 (2)	7.050	7.050	0.000		595284036	500.000	500
35 Aroclor 1248 (3)	7.095	7.095	0.000		465048330	500.000	500
36 Aroclor 1248 (4)	7.323	7.323	0.000		927707908	500.000	500
37 Aroclor 1248 (5)	7.471	7.471	0.000		1067590749	500.000	500
M 50 Aroclor-1268					26734072112	500.000	500
51 Aroclor 1268 (1)	10.597	10.597	0.000		4337285233	500.000	500
52 Aroclor 1268 (2)	10.651	10.651	0.000		5588601365	500.000	500
53 Aroclor 1268 (3)	10.935	10.935	0.000		3541388006	500.000	500
54 Aroclor 1268 (4)	11.261	11.261	0.000		1648297268	500.000	500
55 Aroclor 1268 (5)	11.628	11.628	0.000		11618500240	500.000	500

Data File: /chem1/SV06/GC\_58.i/170523.b/b17052329.d

Date : 23-MAY-2017 19:15

Client ID:

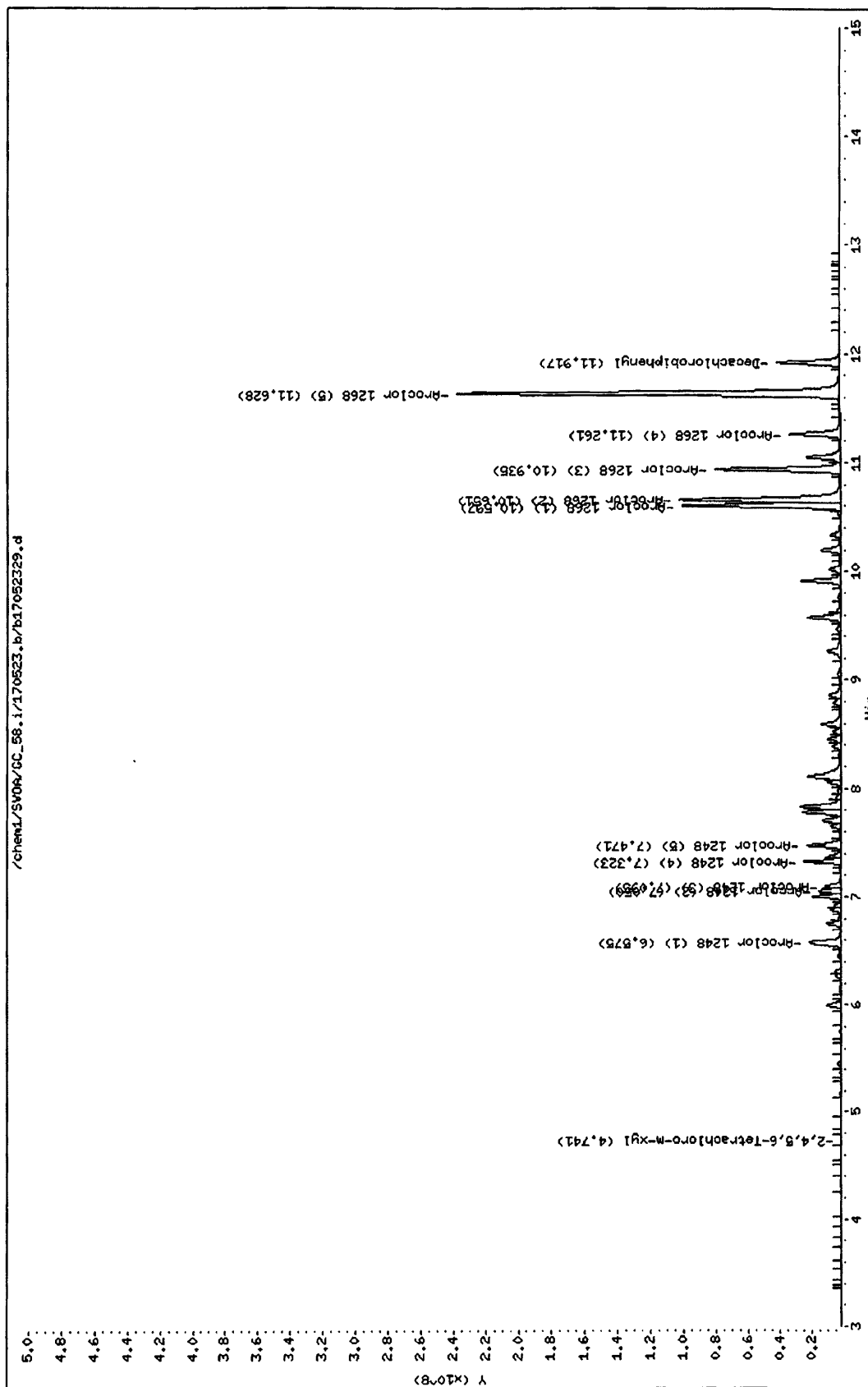
Sample Info: PCB 1248/68 500 PPB P061717L

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_58.i/170523.b/b17052330.d  
 Report Date: 24-May-2017 09:21

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170523.b/b17052330.d  
 Lab Smp Id:  
 Inj Date : 23-MAY-2017 19:33  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB 1242 500 PPB P051717M  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170523.b/b8082-n2.m  
 Meth Date : 24-May-2017 09:21 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 30 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1242.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
M 26 Aroclor-1242				5389512491	500.000	500
27 Aroclor 1242 (1)	5.450	5.450	0.000	508226939	500.000	500
28 Aroclor 1242 (2)	5.995	5.995	0.000	987164741	500.000	500
29 Aroclor 1242 (3)	6.579	6.579	0.000	2221729562	500.000	500
30 Aroclor 1242 (4)	6.750	6.750	0.000	932661040	500.000	500
31 Aroclor 1242 (5)	6.876	6.876	0.000	739730209	500.000	500

Data File: /chem1/SVDA/GC\_58.i/170523.b/b17052330.d

Date : 23-MAY-2017 19:33

Client ID:

Sample Info: PCB 1242 900 PPB P051717M

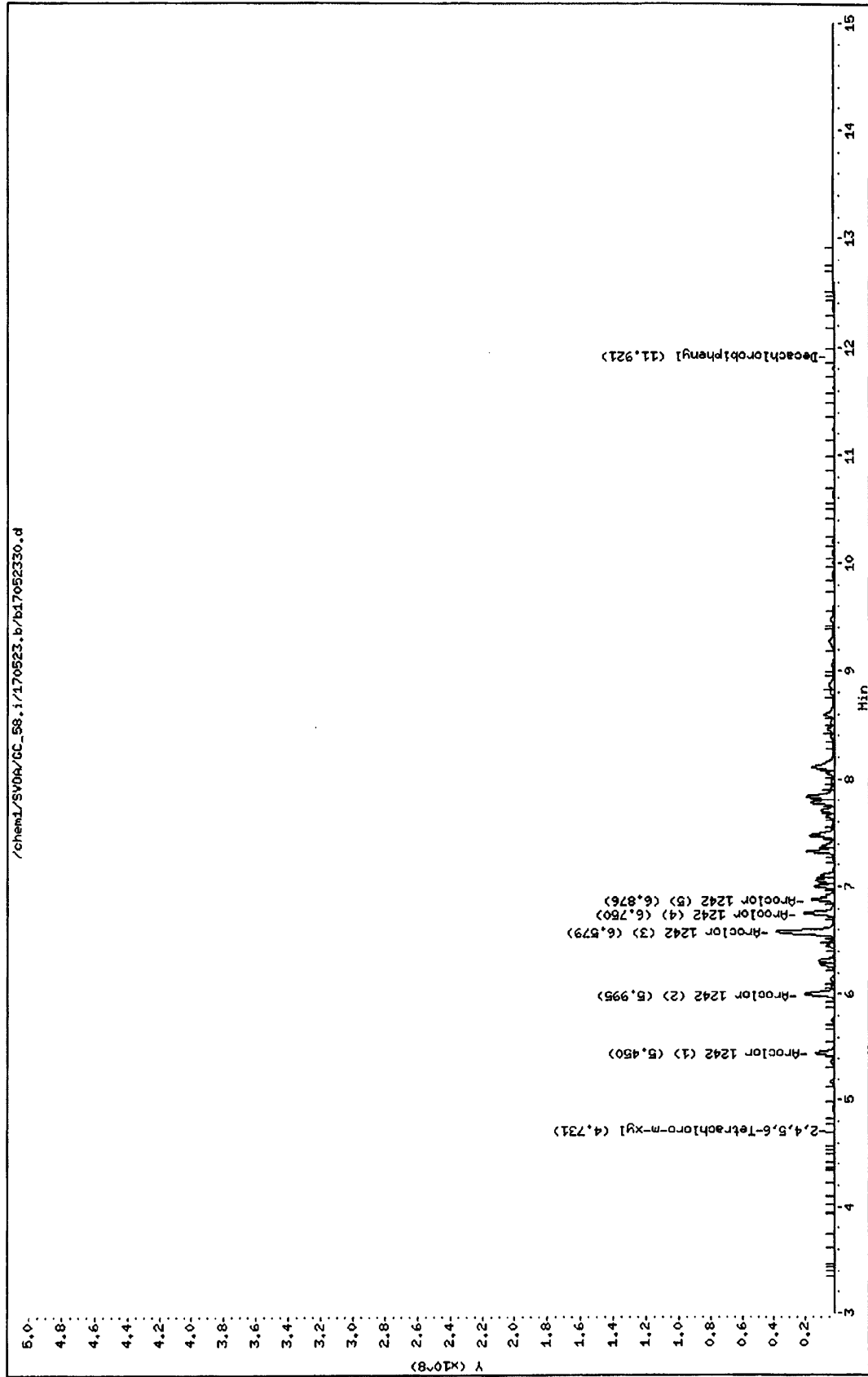
Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:

/chem1/SVDA/GC\_58.i/170523.b/b17052330.d




# EPA METHOD 8082 PCB

## Sample Data

**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 19:50  
**REVIEWED BY:**   
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705253117052531

**# 1**                      **CLIENT SAMPLE NUMBER: DDP-S001**

<b>LCS/MB BATCH:</b> 170523L12	<b>SAMPLE VOLUME / WEIGHT:</b> DEFAULT: 20.00 g / ACTUAL: 20.20 g
<b>MS/MSD BATCH:</b> 170523S12	<b>FINAL VOLUME / WEIGHT:</b> DEFAULT: 10.00 ml / ACTUAL: 10.00 ml
<b>UNITS:</b> ug/kg	<b>ADJUSTMENT RATIO TO PF:</b> 0.99

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	294	1.00	146	50	
Aroclor-1260	0.000	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

Return to Contents 



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052531.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052531.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 19:50  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-1  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 31  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.743	4.740	0.003	3895701565	61.4612	61.5
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				Compound Not Detected.		
9 Aroclor 1260 (1)				Compound Not Detected.		
10 Aroclor 1260 (2)				Compound Not Detected.		
11 Aroclor 1260 (3)				Compound Not Detected.		
12 Aroclor 1260 (4)				Compound Not Detected.		
13 Aroclor 1260 (5)				Compound Not Detected.		
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052531.d  
 Report Date: 26-May-2017 11:01

Page 2

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						3832506896	294.211	294
39 Aroclor 1254 (1)	7.829	7.824	0.005		139428375	62.9493	62.9 (a)	
40 Aroclor 1254 (2)	8.123	8.120	0.003		256027491	220.969	221 (M)	
41 Aroclor 1254 (3)	8.590	8.590	0.000		806656820	209.794	210	
42 Aroclor 1254 (4)	8.852	8.859	-0.007		1168801814	426.896	427	
43 Aroclor 1254 (5)	9.254	9.262	-0.008		1461592396	476.106	476	
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	11.915	11.920	-0.005		5299670855	84.8791	84.9	

### QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: /chem1/SV0A/GC\_58.i/170525.b/b17052531.d

Date : 25-MAY-2017 19:50

Client ID:

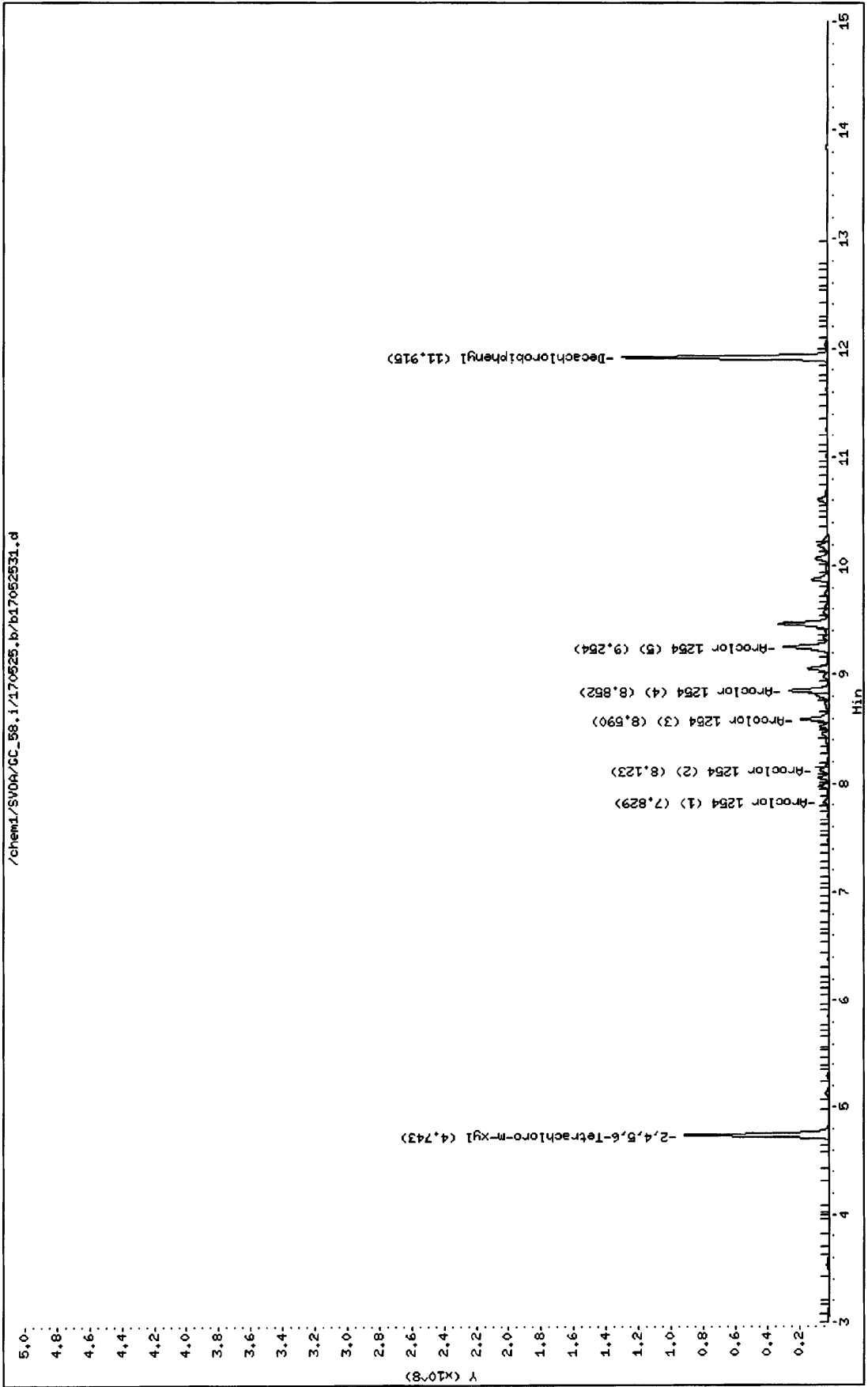
Sample Info: 17-05-1776-1

Instrument: GC\_58.i

Operator: 944

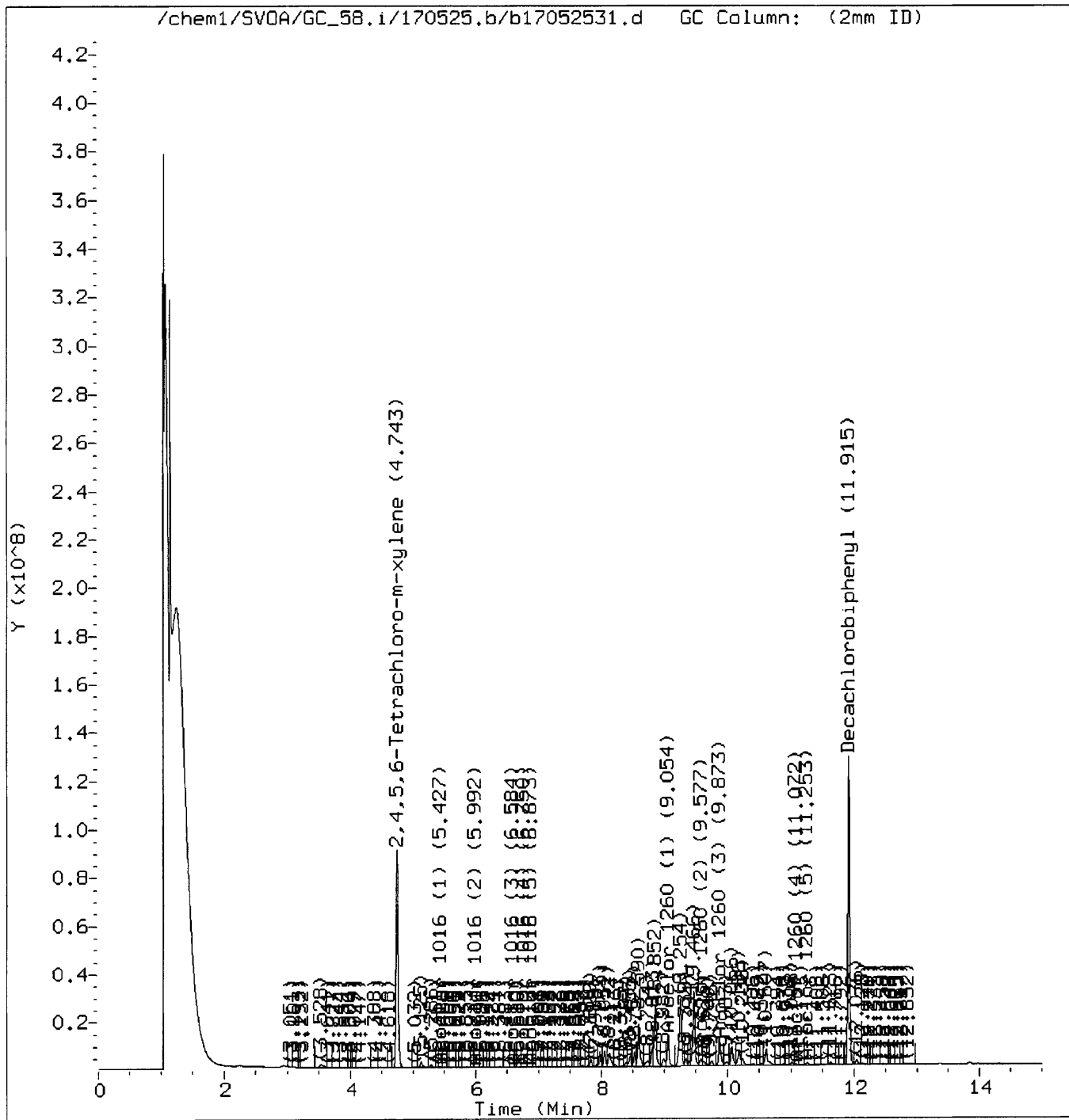
Column diameter: 2.00

Column phase:





## Original Data File



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 20:08  
**REVIEWED BY:** *u*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705253217052532

**# 2**                      **CLIENT SAMPLE NUMBER: DDP-S002**

<b>LCS/MB BATCH:</b> 170523L12	<b>SAMPLE VOLUME / WEIGHT:</b> DEFAULT: 20.00 g / ACTUAL: 20.10 g
<b>MS/MSD BATCH:</b> 170523S12	<b>FINAL VOLUME / WEIGHT:</b> DEFAULT: 10.00 ml / ACTUAL: 10.00 ml
<b>UNITS:</b> ug/kg	<b>ADJUSTMENT RATIO TO PF:</b> 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	56.8	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052532.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052532.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 20:08  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-2  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 32  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.744	4.740	0.004	3842946103	60.6289	60.6
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260				655239569	56.7944	56.8 (a)
9 Aroclor 1260 (1)	9.057	9.057	0.000	143747793	41.6661	41.7 (a)
10 Aroclor 1260 (2)	9.569	9.570	-0.001	136277662	53.2288	53.2 (a)
11 Aroclor 1260 (3)	9.901	9.908	-0.007	114432462	39.9235	39.9 (a)
12 Aroclor 1260 (4)	11.072	11.081	-0.009	64705153	79.8473	79.8 (a)
13 Aroclor 1260 (5)	11.254	11.264	-0.010	196076499	105.977	106
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052532.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
===== 22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				Compound Not Detected.		
39 Aroclor 1254 (1)				Compound Not Detected.		
40 Aroclor 1254 (2)				Compound Not Detected.		
41 Aroclor 1254 (3)				Compound Not Detected.		
42 Aroclor 1254 (4)				Compound Not Detected.		
43 Aroclor 1254 (5)				Compound Not Detected.		
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.916	11.920	-0.004	5352870733	85.7311	85.7

### QC Flag Legend

a - Target compound detected but, quantitated amount  
 Below Limit Of Quantitation(BLOQ).



Data File: /chem1/SV04/GC\_58.i/170525.b/b17052532.d

Date : 25-MAY-2017 20:08

Client ID:

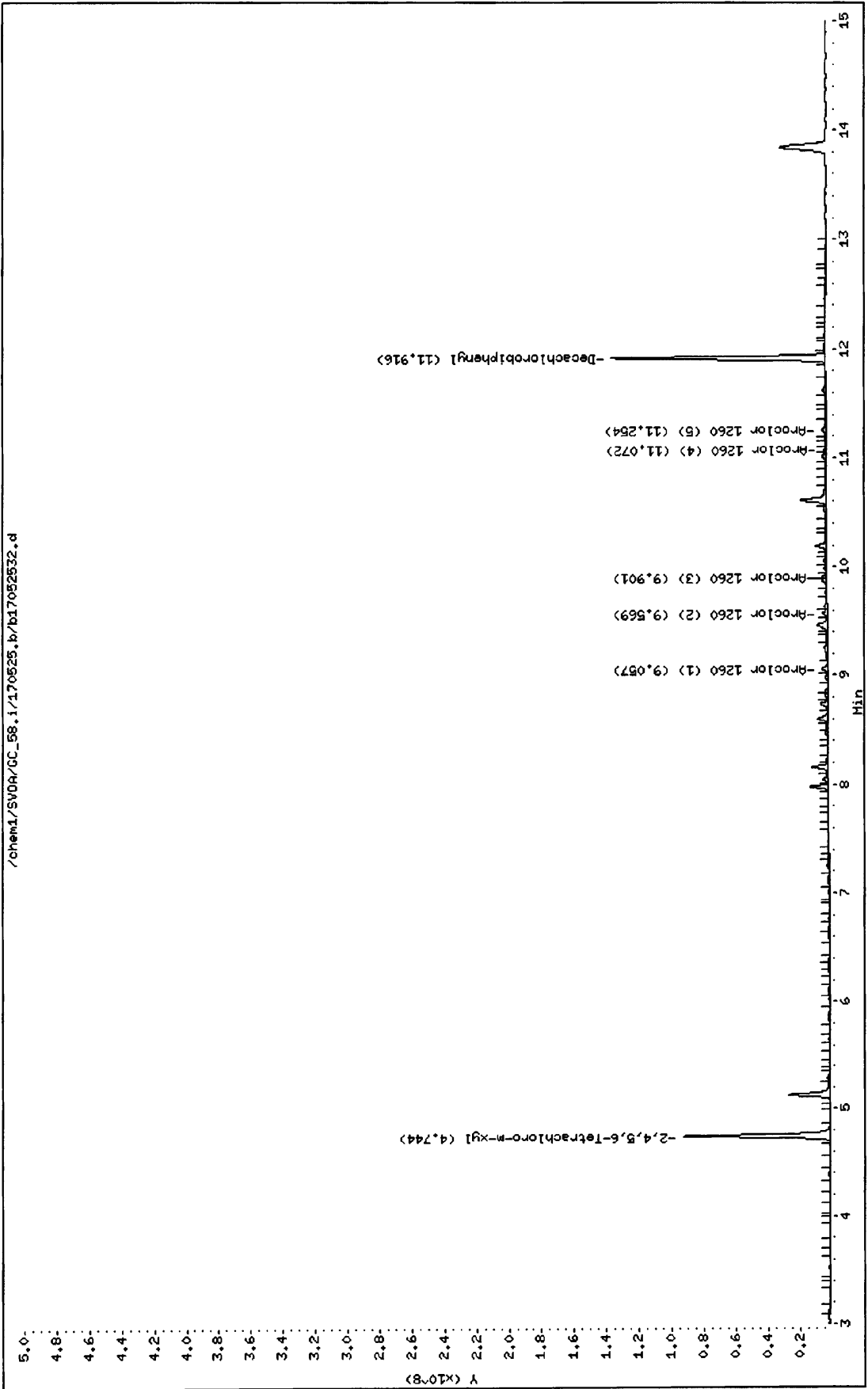
Sample Info: 17-05-1776-2

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 20:26  
**REVIEWED BY:** *M*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705253317052533

**# 3**                      **CLIENT SAMPLE NUMBER: DDP-S003**

<b>LCS/MB BATCH:</b> 170523L12	<b>SAMPLE VOLUME / WEIGHT:</b> DEFAULT: 20.00 g / ACTUAL: 20.00 g
<b>MS/MSD BATCH:</b> 170523S12	<b>FINAL VOLUME / WEIGHT:</b> DEFAULT: 10.00 ml / ACTUAL: 10.00 ml
<b>UNITS:</b> ug/kg	<b>ADJUSTMENT RATIO TO PF:</b> 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	557	1.00	278	50	
Aroclor-1260	0.000	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052533.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052533.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 20:26  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-3  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 33  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.744	4.740	0.004	4581043552	72.2736	72.3
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				Compound Not Detected.		
9 Aroclor 1260 (1)				Compound Not Detected.		
10 Aroclor 1260 (2)				Compound Not Detected.		
11 Aroclor 1260 (3)				Compound Not Detected.		
12 Aroclor 1260 (4)				Compound Not Detected.		
13 Aroclor 1260 (5)				Compound Not Detected.		
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052533.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
=====	==	=====	=====	=====	=====	=====
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				7257765686	557.159	557
39 Aroclor 1254 (1)	7.832	7.824	0.008	403114676	181.999	182
40 Aroclor 1254 (2)	8.121	8.120	0.001	506639484	437.264	437
41 Aroclor 1254 (3)	8.591	8.590	0.001	1394383201	362.649	363
42 Aroclor 1254 (4)	8.852	8.859	-0.007	2292518177	837.325	837
43 Aroclor 1254 (5)	9.254	9.262	-0.008	2661110148	866.843	867
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.915	11.920	-0.005	5766235136	92.3515	92.4

Data File: /chem1/SV04/GC\_58.i/170525.b/b17052533.d

Date : 25-MAY-2017 20:26

Client ID:

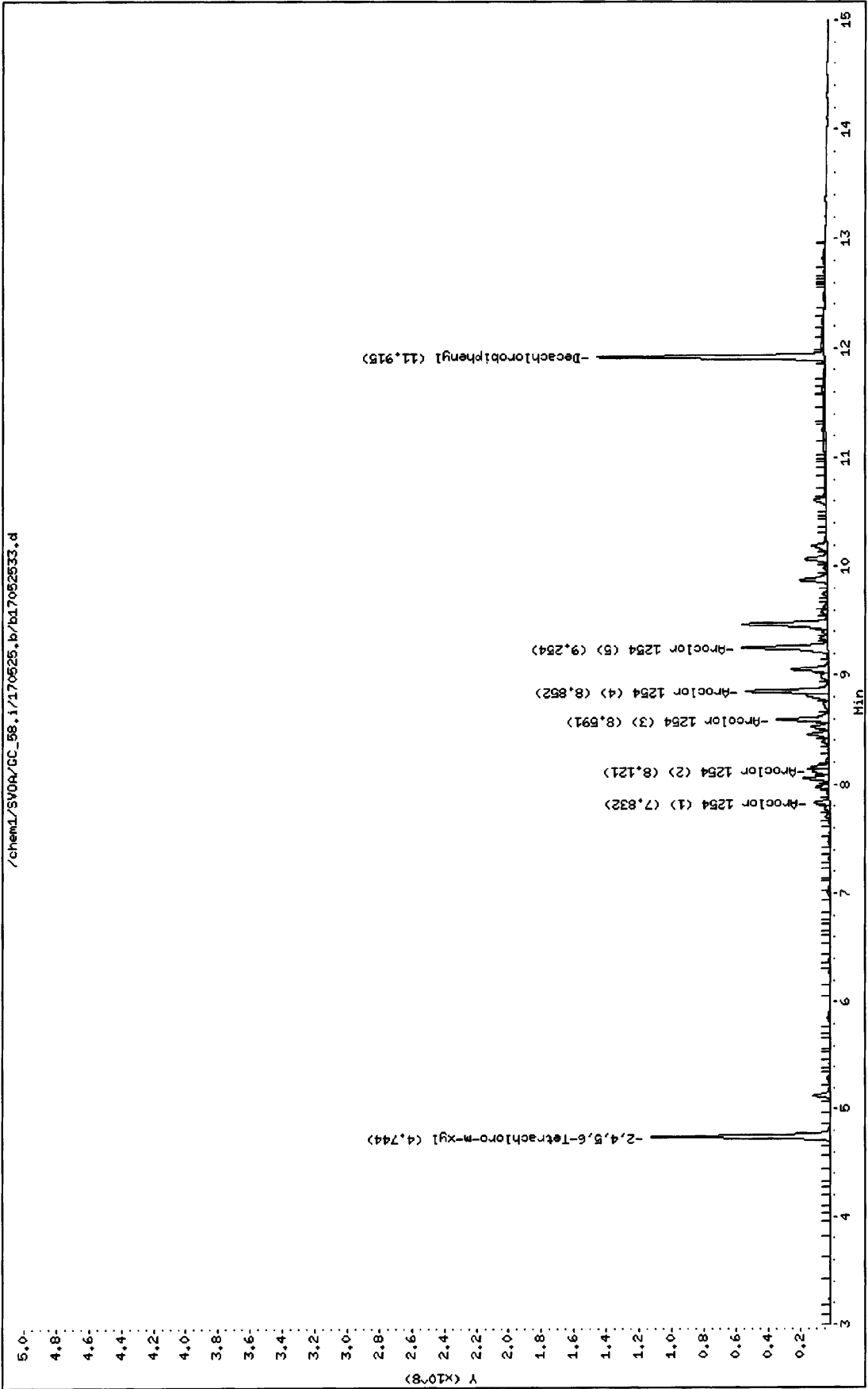
Sample Info: 17-05-1776-3

Instrument: GC\_58.i

Operator: 944


Column diameter: 2.00

Column phase:



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 20:44  
**REVIEWED BY:**   
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705253417052534

**# 4**                      **CLIENT SAMPLE NUMBER: DDP-S004**

<b>LCS/MB BATCH:</b> 170523L12	<b>SAMPLE VOLUME / WEIGHT:</b> DEFAULT: 20.00 g / ACTUAL: 20.10 g
<b>MS/MSD BATCH:</b> 170523S12	<b>FINAL VOLUME / WEIGHT:</b> DEFAULT: 10.00 ml / ACTUAL: 10.00 ml
<b>UNITS:</b> ug/kg	<b>ADJUSTMENT RATIO TO PF:</b> 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	283	1.00	141	50	
Aroclor-1260	150	1.00	74.6	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052534.d  
 Report Date: 26-May-2017 11:01

Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052534.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 20:44  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-4  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 34  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.744	4.740	0.004	4167742110	65.7531	65.8
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				1728541770	149.825	150
9 Aroclor 1260 (1)	9.056	9.057	-0.001	781616847	226.556	226
10 Aroclor 1260 (2)	9.570	9.570	0.000	334706750	130.733	131
11 Aroclor 1260 (3)	9.894	9.908	-0.014	183071339	63.8703	63.9 (aM)
12 Aroclor 1260 (4)	11.072	11.081	-0.009	81581467	100.673	101
13 Aroclor 1260 (5)	11.256	11.264	-0.008	347565367	187.856	188
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052534.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				3685791864	282.948	283
39 Aroclor 1254 (1)	7.830	7.824	0.006	356165233	160.802	161
40 Aroclor 1254 (2)	8.129	8.120	0.009	332798622	287.228	287 (M)
41 Aroclor 1254 (3)	8.590	8.590	0.000	913300967	237.530	238
42 Aroclor 1254 (4)	8.852	8.859	-0.007	879296880	321.156	321
43 Aroclor 1254 (5)	9.253	9.262	-0.009	1204230162	392.272	392
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.917	11.920	-0.003	5167222395	82.7578	82.8

### QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.



Data File: /chem1/SV0A/GC\_58.i/170525.b/b17052534.d

Date : 25-MAY-2017 20:44

Client ID:

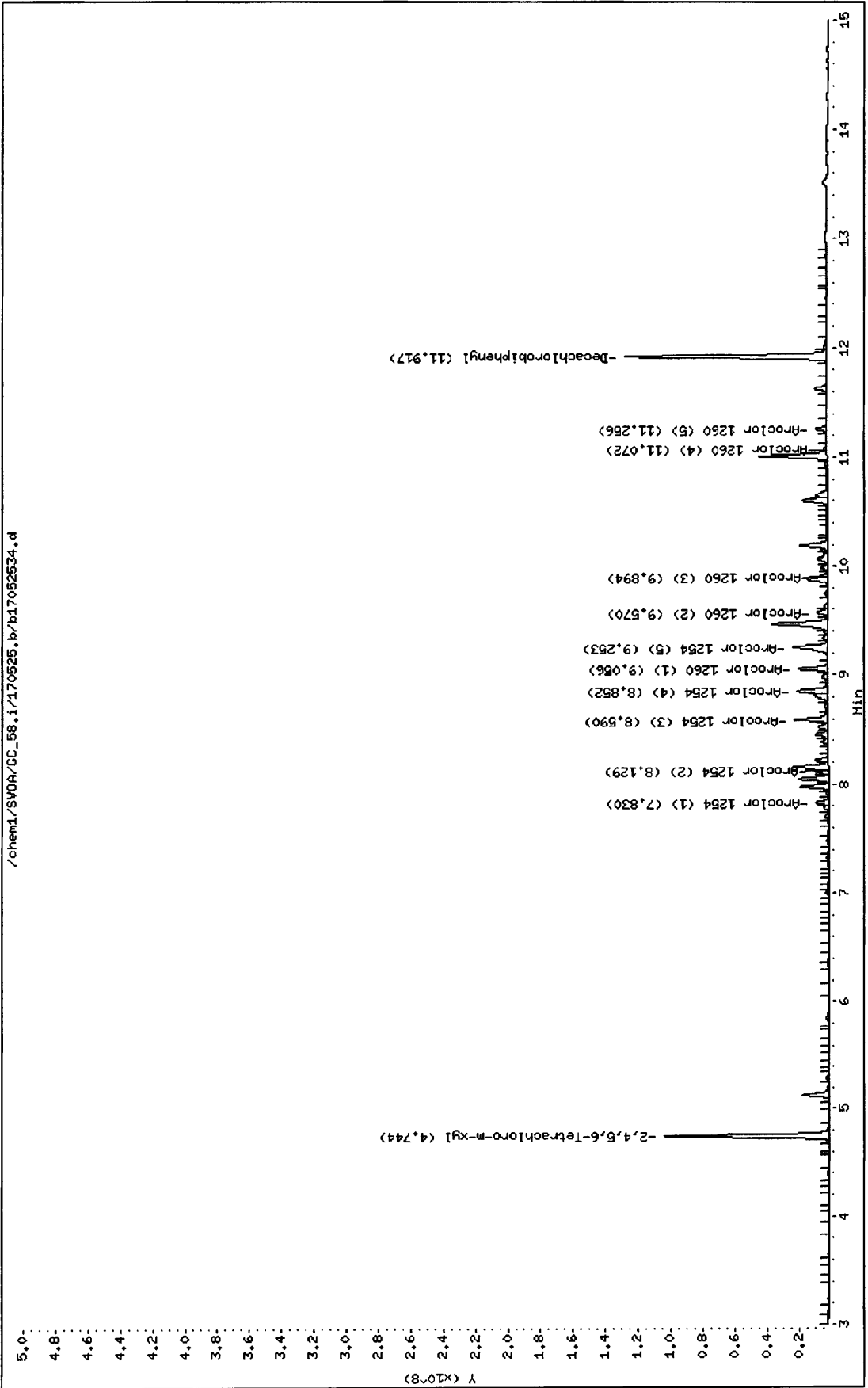
Sample Info: 17-05-1776-4

Instrument: GC\_58.i

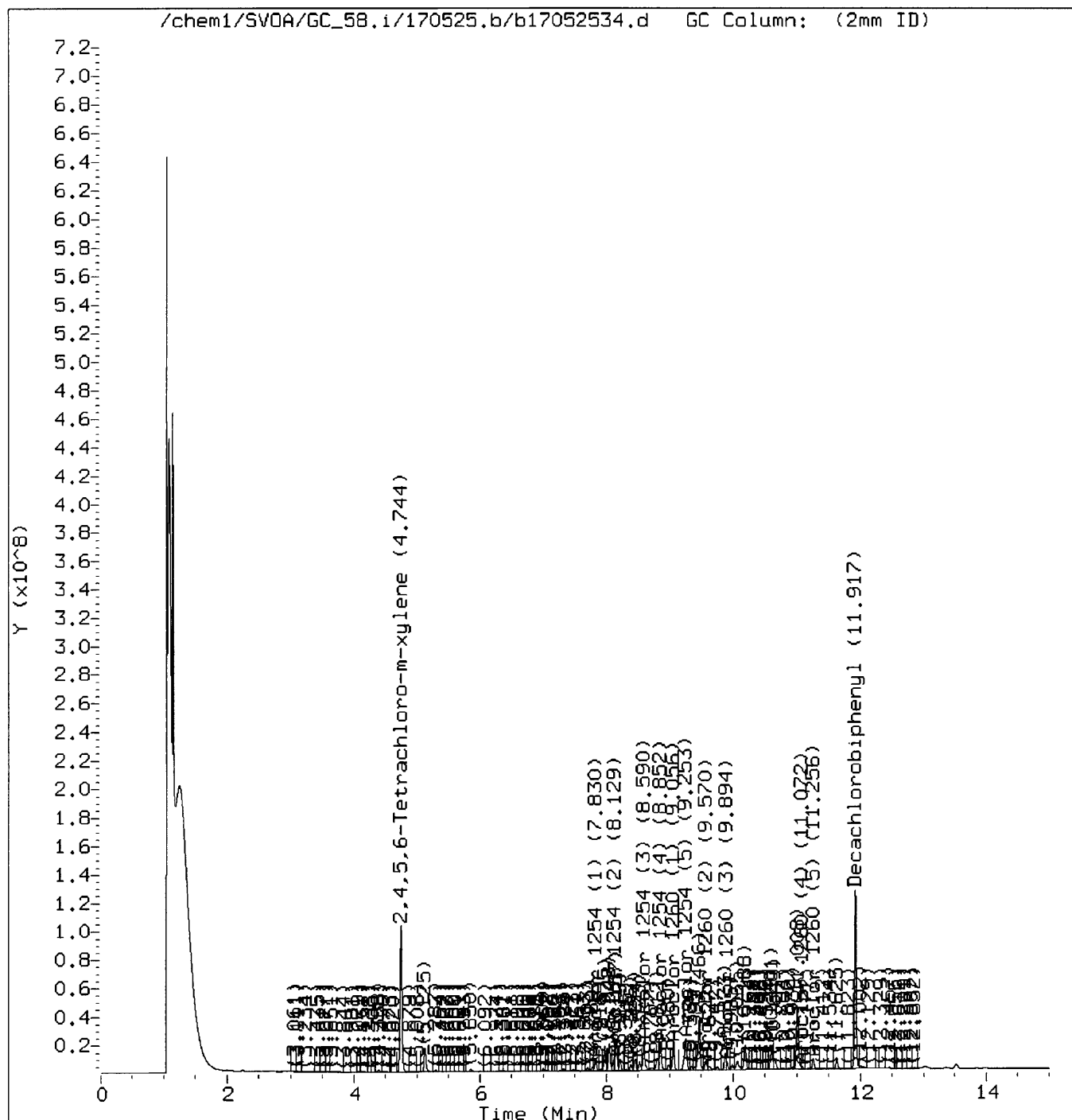
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee

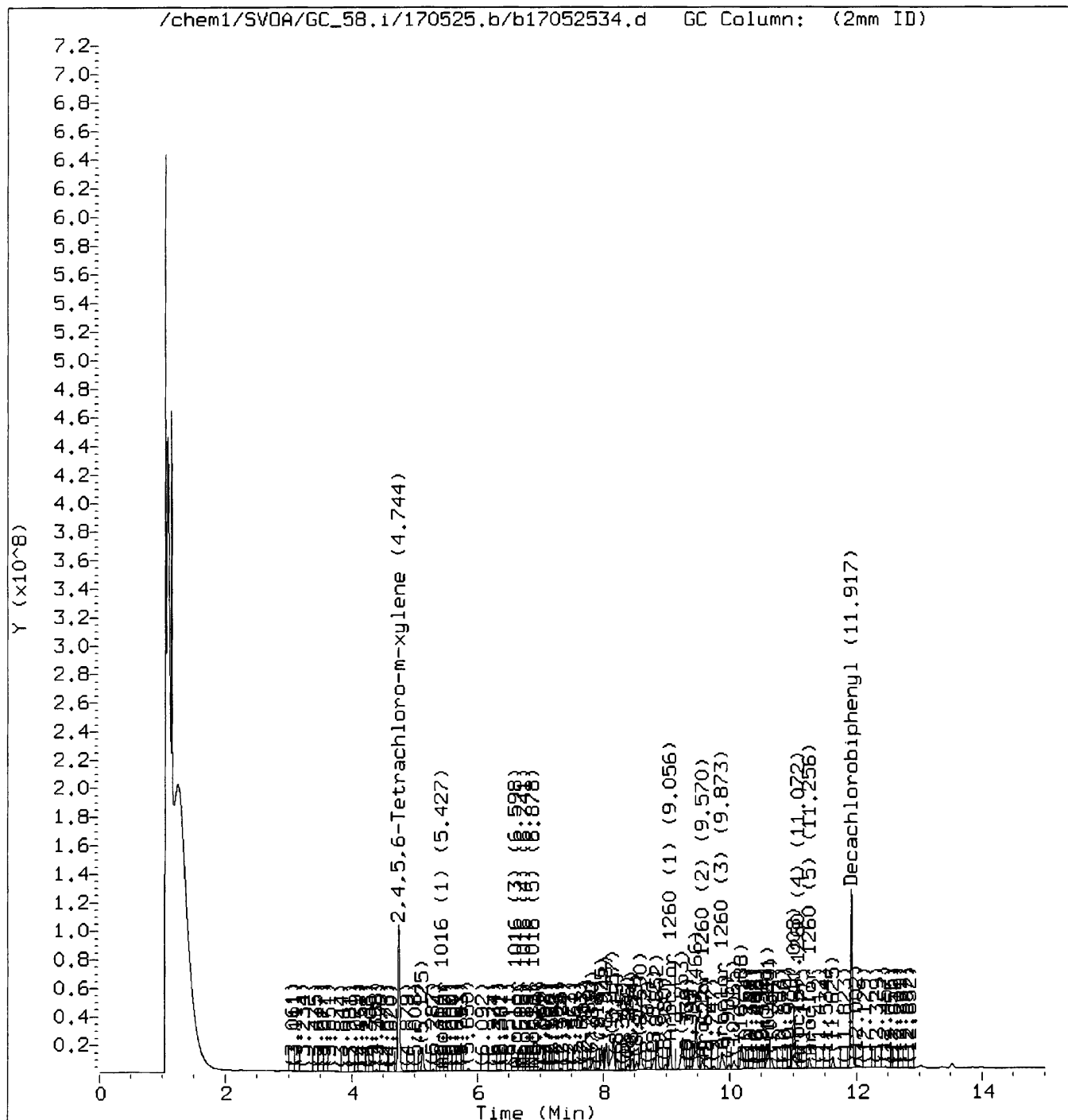
Analyst responsible for change: on 05/26/2017 at 11:02.

Target 3.5 esignature user ID: src3

*m*

Audit/management approval: \_\_\_\_\_

Original Data File



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 21:02  
**REVIEWED BY:** M  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705253517052535

**# 5**                      **CLIENT SAMPLE NUMBER: DDP-S005**

<b>LCS/MB BATCH:</b> 170523L12	<b>SAMPLE VOLUME / WEIGHT:</b> DEFAULT: 20.00 g / ACTUAL: 20.10 g	
<b>MS/MSD BATCH:</b> 170523S12	<b>FINAL VOLUME / WEIGHT:</b> DEFAULT: 10.00 ml / ACTUAL: 10.00 ml	
<b>UNITS:</b> ug/kg	<b>ADJUSTMENT RATIO TO PF:</b> 1.00	

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	148	1.00	73.6	50	
Aroclor-1260	76.7	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052535.d  
 Report Date: 26-May-2017 11:01

Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052535.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 21:02  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-5  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 35  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.745	4.740	0.005	3497158540	55.1735	55.2
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260				885013410	76.7105	76.7 (a)
9 Aroclor 1260 (1)	9.054	9.057	-0.003	407486471	118.112	118
10 Aroclor 1260 (2)	9.570	9.570	0.000	168840523	65.9476	65.9 (a)
11 Aroclor 1260 (3)	9.895	9.908	-0.013	98723597	34.4429	34.4 (aM)
12 Aroclor 1260 (4)	11.072	11.081	-0.009	52097925	64.2898	64.3 (a)
13 Aroclor 1260 (5)	11.253	11.264	-0.011	157864894	85.3244	85.3 (aM)
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052535.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				1935040795	148.548	148
39 Aroclor 1254 (1)	7.828	7.824	0.004	107800143	48.6698	48.7 (a)
40 Aroclor 1254 (2)	8.135	8.120	0.015	185365603	159.983	160 (M)
41 Aroclor 1254 (3)	8.590	8.590	0.000	449367787	116.871	117
42 Aroclor 1254 (4)	8.850	8.859	-0.009	495054190	180.815	181
43 Aroclor 1254 (5)	9.251	9.262	-0.011	697453072	227.192	227
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.915	11.920	-0.005	4165243908	66.7102	66.7

### QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: /chem1/SV04/GC\_58.i/170525.b/b17052535.d

Date : 25-MAY-2017 21:02

Client ID:

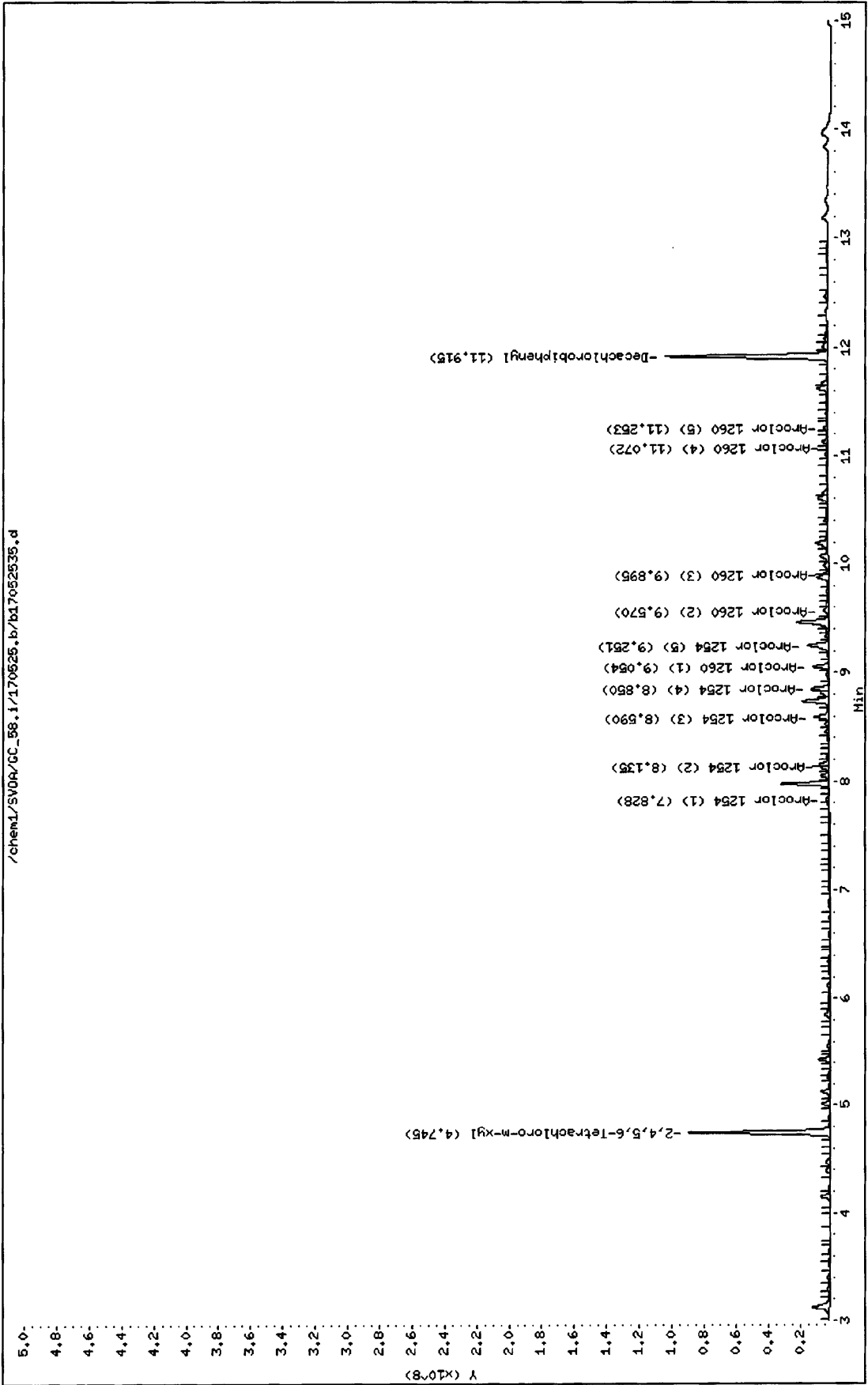
Sample Info: 17-05-1776-5

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

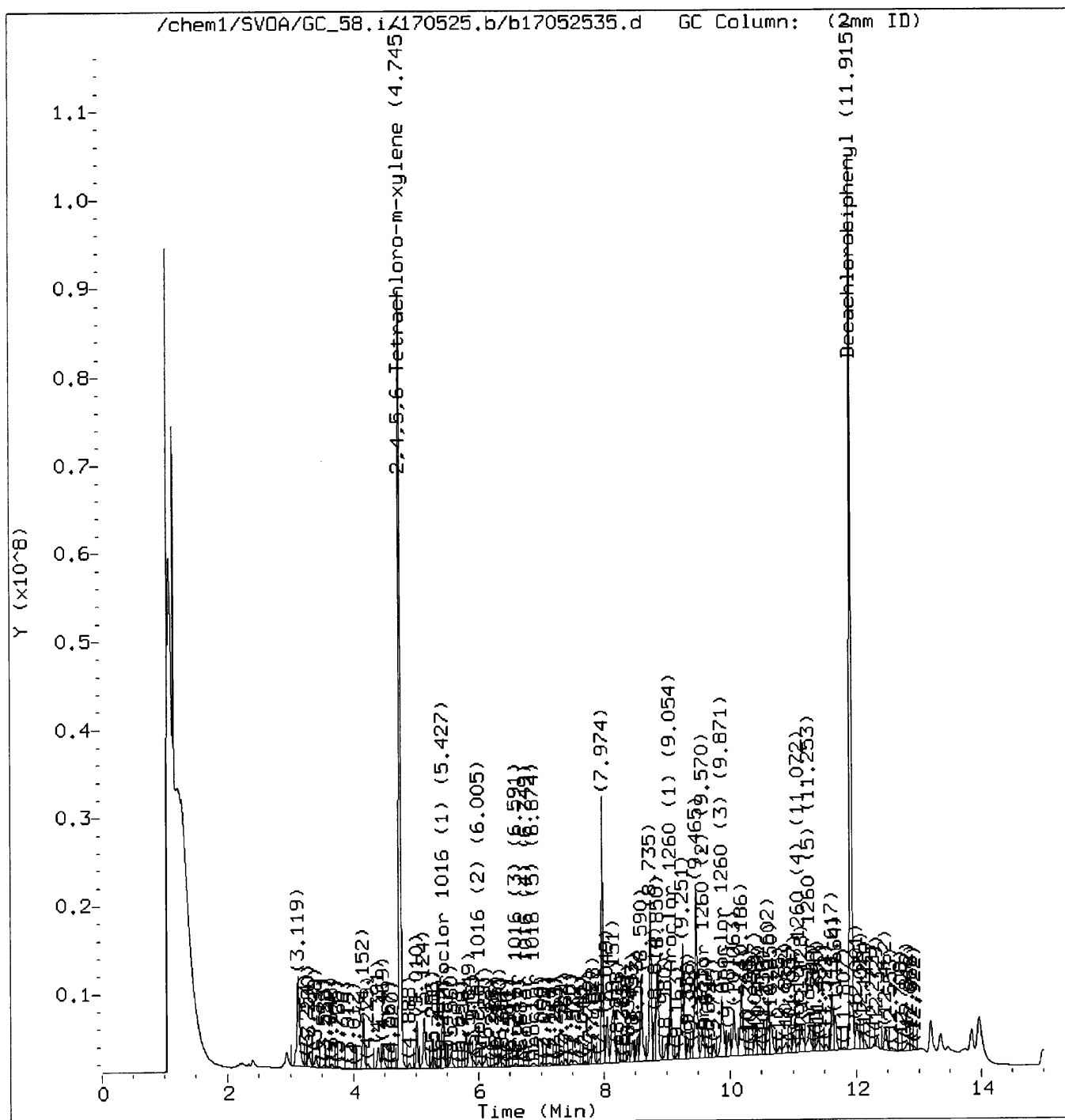
Column phase:







Original Data File



**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 21:20  
**REVIEWED BY:** *M*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705253617052536

**# 6**                      **CLIENT SAMPLE NUMBER: DDP-S006**

**LCS/MB BATCH:** 170523L12                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.00 g  
**MS/MSD BATCH:** 170523S12                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	130	1.00	65.0	50	
Aroclor-1260	0.000	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052536.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052536.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 21:20  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-6  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 36  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.744	4.740	0.004	4566690430	72.0472	72.0
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				Compound Not Detected.		
9 Aroclor 1260 (1)				Compound Not Detected.		
10 Aroclor 1260 (2)				Compound Not Detected.		
11 Aroclor 1260 (3)				Compound Not Detected.		
12 Aroclor 1260 (4)				Compound Not Detected.		
13 Aroclor 1260 (5)				Compound Not Detected.		
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052536.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				1695577764	130.165	130
39 Aroclor 1254 (1)	7.828	7.824	0.004	182246233	82.2808	82.3 (a)
40 Aroclor 1254 (2)	8.124	8.120	0.004	76732971	66.2258	66.2 (aM)
41 Aroclor 1254 (3)	8.592	8.590	0.002	464735845	120.868	121
42 Aroclor 1254 (4)	8.853	8.859	-0.006	314989501	115.047	115
43 Aroclor 1254 (5)	9.255	9.262	-0.007	656873214	213.973	214
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.919	11.920	-0.001	5468874369	87.5890	87.6

### QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: /chem1/SV00A/CC\_58.i/170525.b/b17052536.d

Date : 25-MAY-2017 21:20

Client ID:

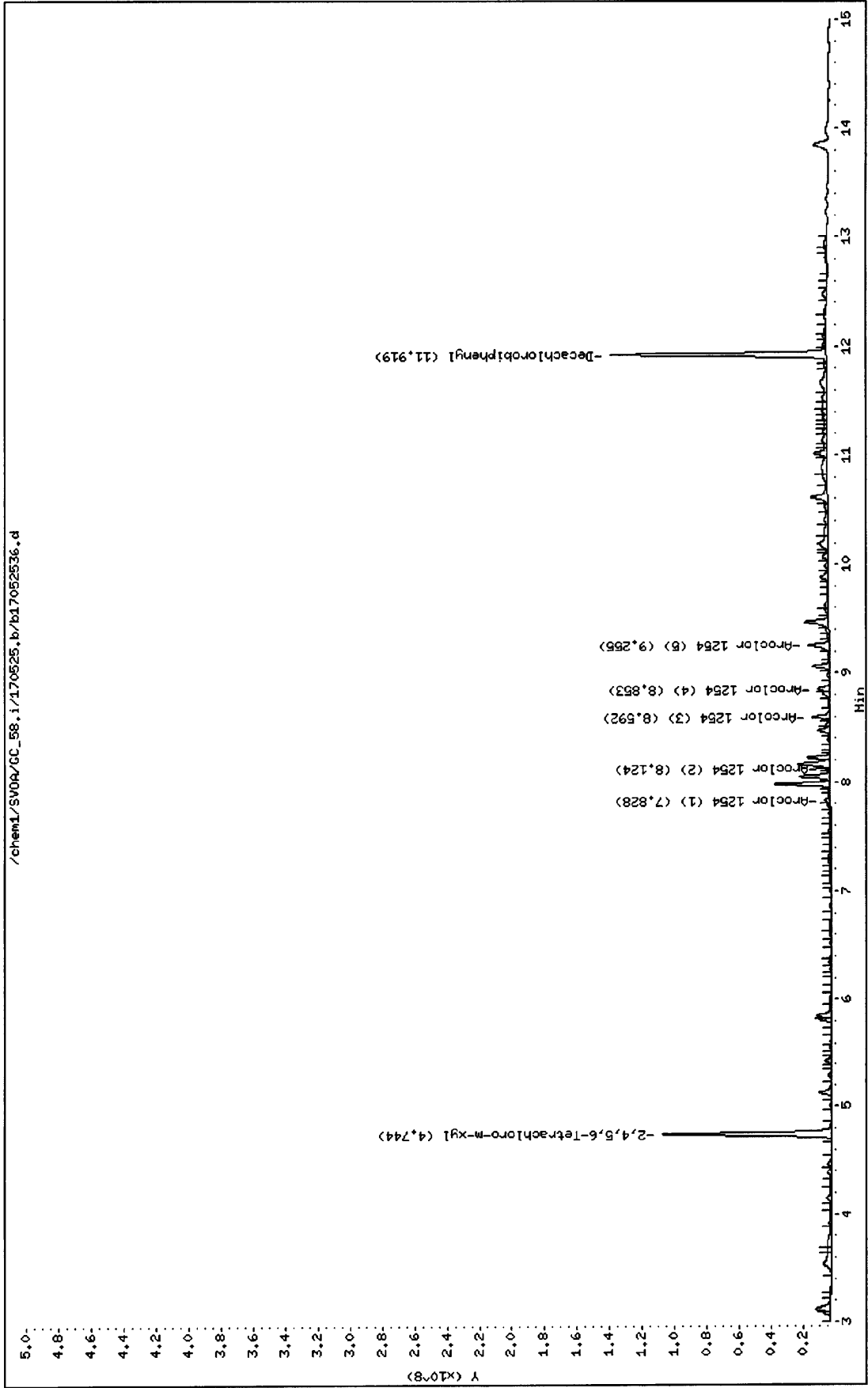
Sample Info: 17-08-1776-6

Instrument: GC\_58.i

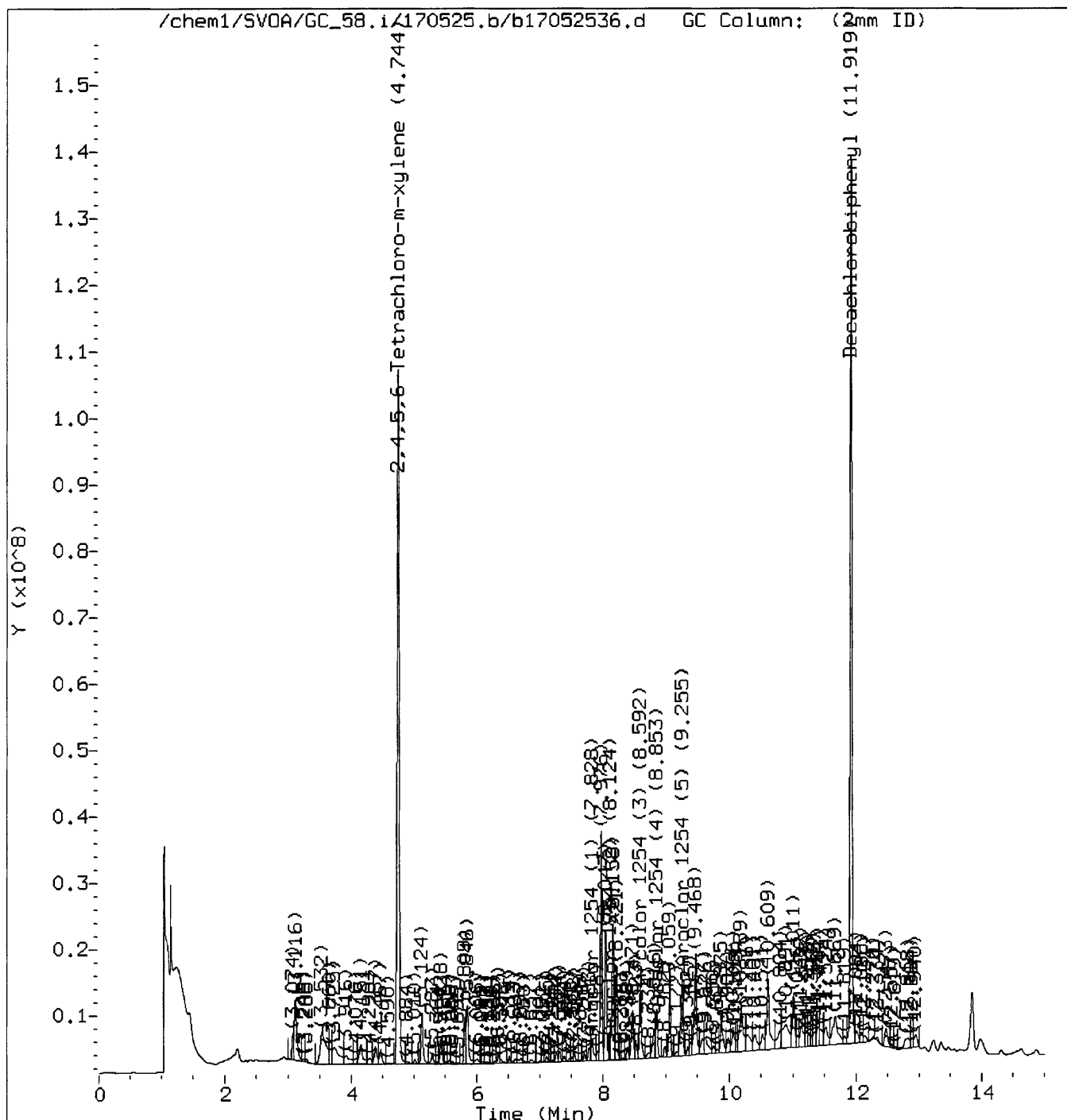
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee

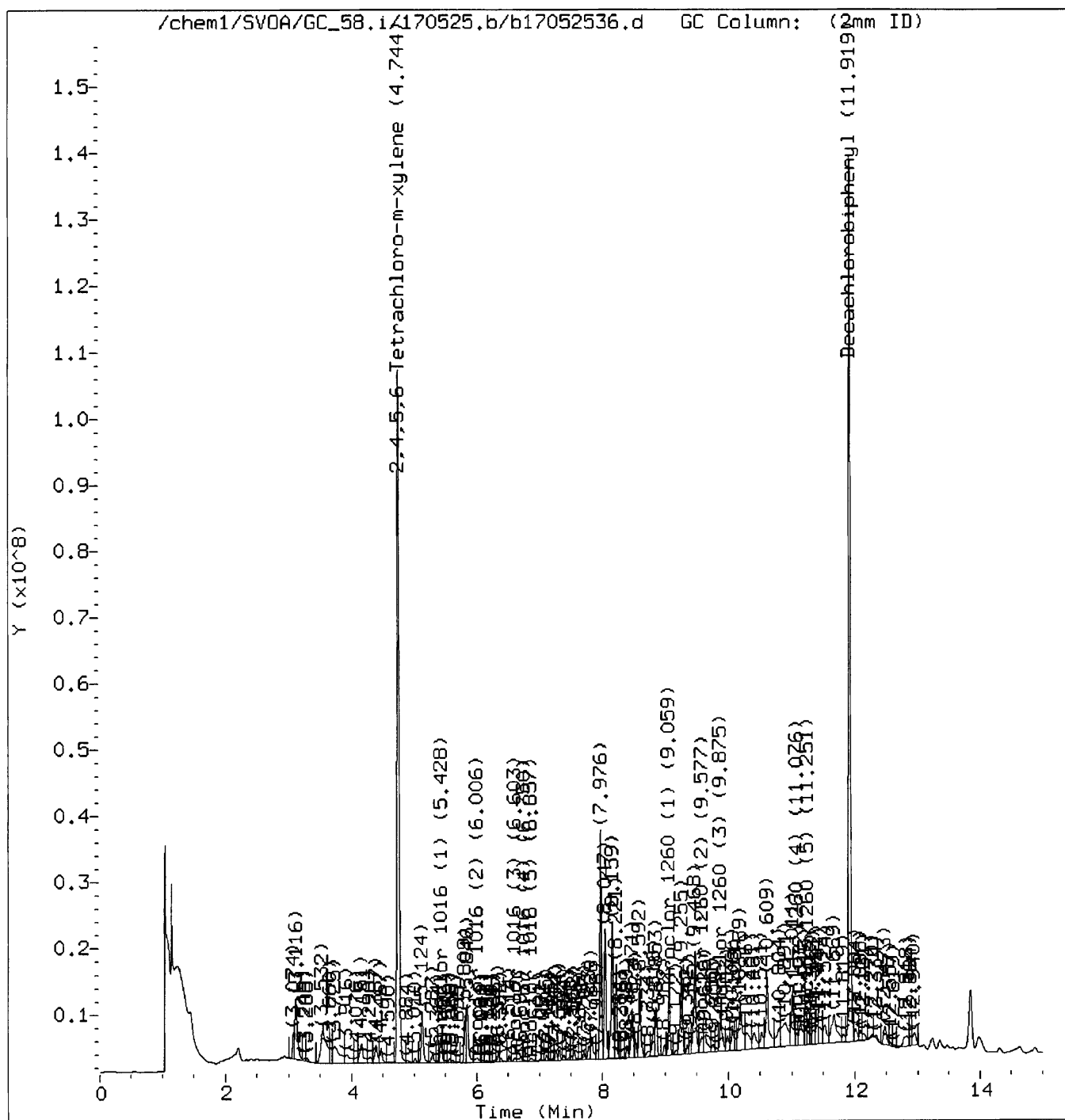
Analyst responsible for change: on 05/26/2017 at 11:02.

Target 3.5 esignature user ID: src3

Audit/management approval: \_\_\_\_\_

*m*

Original Data File



RAW DATA SHEET  
FOR METHOD: EPA 8082

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 21:38  
**REVIEWED BY:** *u*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705253717052537

**# 7**                      **CLIENT SAMPLE NUMBER:** DDP-S007

**LCS/MB BATCH:** 170523L12                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.00 g  
**MS/MSD BATCH:** 170523S12                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	0.000	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052537.d  
 Report Date: 26-May-2017 11:01

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052537.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 21:38  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-7  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 37  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.750	4.740	0.010	5213038292	82.2444	82.2
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				Compound Not Detected.		
9 Aroclor 1260 (1)				Compound Not Detected.		
10 Aroclor 1260 (2)				Compound Not Detected.		
11 Aroclor 1260 (3)				Compound Not Detected.		
12 Aroclor 1260 (4)				Compound Not Detected.		
13 Aroclor 1260 (5)				Compound Not Detected.		
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052537.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
=====	==	=====	=====	=====	=====	=====
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				Compound Not Detected.		
39 Aroclor 1254 (1)				Compound Not Detected.		
40 Aroclor 1254 (2)				Compound Not Detected.		
41 Aroclor 1254 (3)				Compound Not Detected.		
42 Aroclor 1254 (4)				Compound Not Detected.		
43 Aroclor 1254 (5)				Compound Not Detected.		
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	12.025	11.920	0.105	3400879918	54.4682	54.5

Data File: /chem1/SV04/GC\_58.i/170525.b/b17052537.d

Date: 25-MAY-2017 21:38

Client ID:

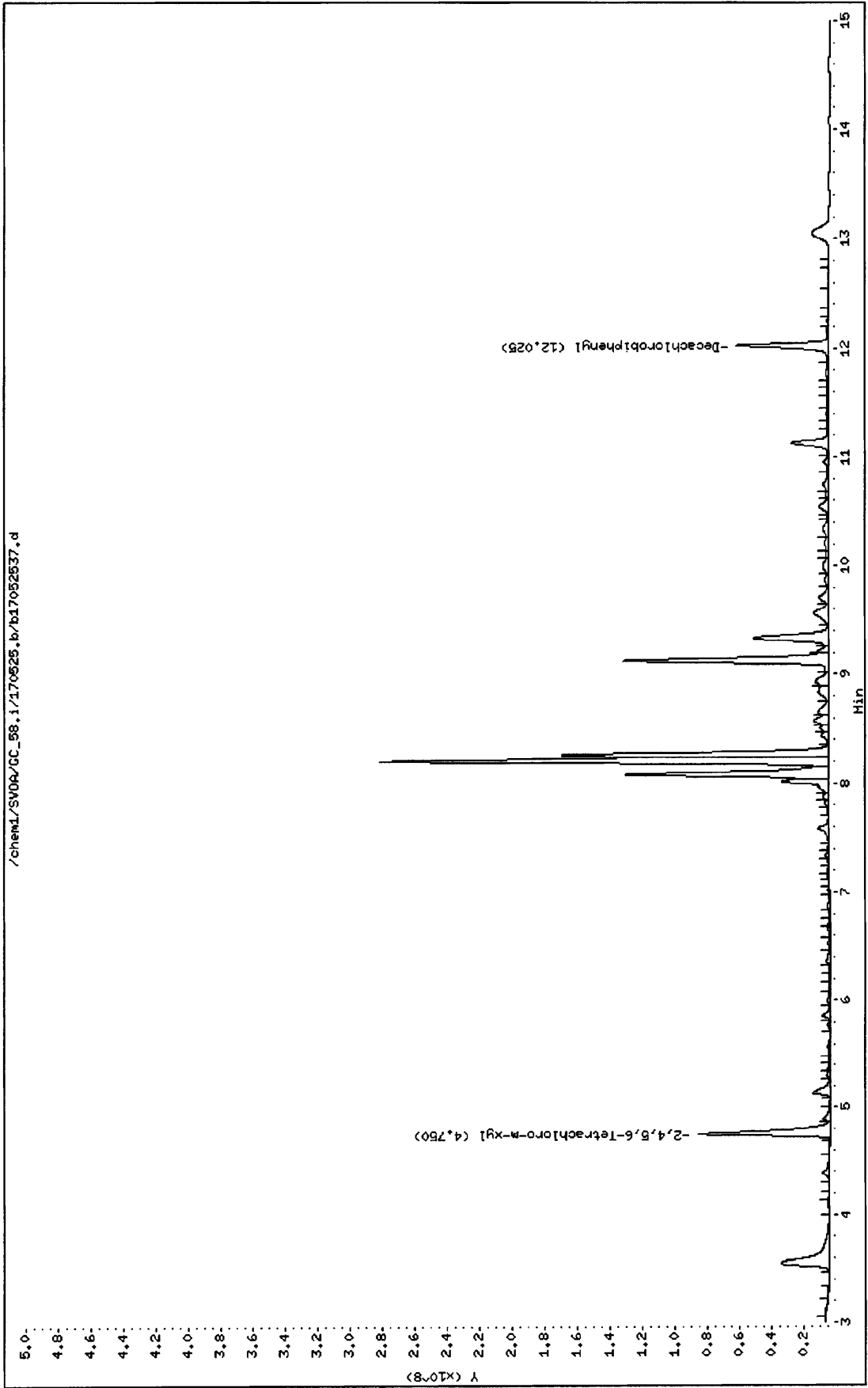
Sample Info: 17-05-1776-7

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 21:56  
**REVIEWED BY:**  
**D/T REVIEWED:** *M*

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705253817052538

**# 8**                      **CLIENT SAMPLE NUMBER: DDP-S008**

<b>LCS/MB BATCH:</b> 170523L12	<b>SAMPLE VOLUME / WEIGHT:</b> DEFAULT: 20.00 g / ACTUAL: 20.00 g
<b>MS/MSD BATCH:</b> 170523S12	<b>FINAL VOLUME / WEIGHT:</b> DEFAULT: 10.00 ml / ACTUAL: 10.00 ml
<b>UNITS:</b> ug/kg	<b>ADJUSTMENT RATIO TO PF:</b> 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	39.8	1.00	ND	50	
Aroclor-1260	37.8	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052538.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052538.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 21:56  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-8  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 38  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.748	4.740	0.008	2770325948	43.7065	43.7
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				436485890	37.8334	37.8 (a)
9 Aroclor 1260 (1)	9.104	9.057	0.047	100561051	29.1481	29.1 (a)
10 Aroclor 1260 (2)	9.516	9.570	-0.054	203393555	79.4437	79.4 (a)
11 Aroclor 1260 (3)	9.952	9.908	0.044	21721439	7.57823	7.58 (aM)
12 Aroclor 1260 (4)	11.152	11.081	0.071	28995258	35.7807	35.8 (aM)
13 Aroclor 1260 (5)	11.353	11.264	0.089	81814587	44.2200	44.2 (a)
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052538.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
=====	==	=====	=====	=====	=====	=====
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				518260778	39.7855	39.8 (a)
39 Aroclor 1254 (1)	7.849	7.824	0.025	47895191	21.6238	21.6 (a)
40 Aroclor 1254 (2)	8.178	8.120	0.058	132820937	114.634	115
41 Aroclor 1254 (3)	8.621	8.590	0.031	101039619	26.2782	26.3 (a)
42 Aroclor 1254 (4)	8.895	8.859	0.036	106355679	38.8456	38.8 (a)
43 Aroclor 1254 (5)	9.298	9.262	0.036	130149352	42.3955	42.4 (a)
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	12.001	11.920	0.081	2719169438	43.5500	43.5

### QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: /chem1/SV00A/GC\_58.i/170525.lb/b17052538.d

Date: 25-HAY-2017 21:56

Client ID:

Sample Info: 17-05-1776-8

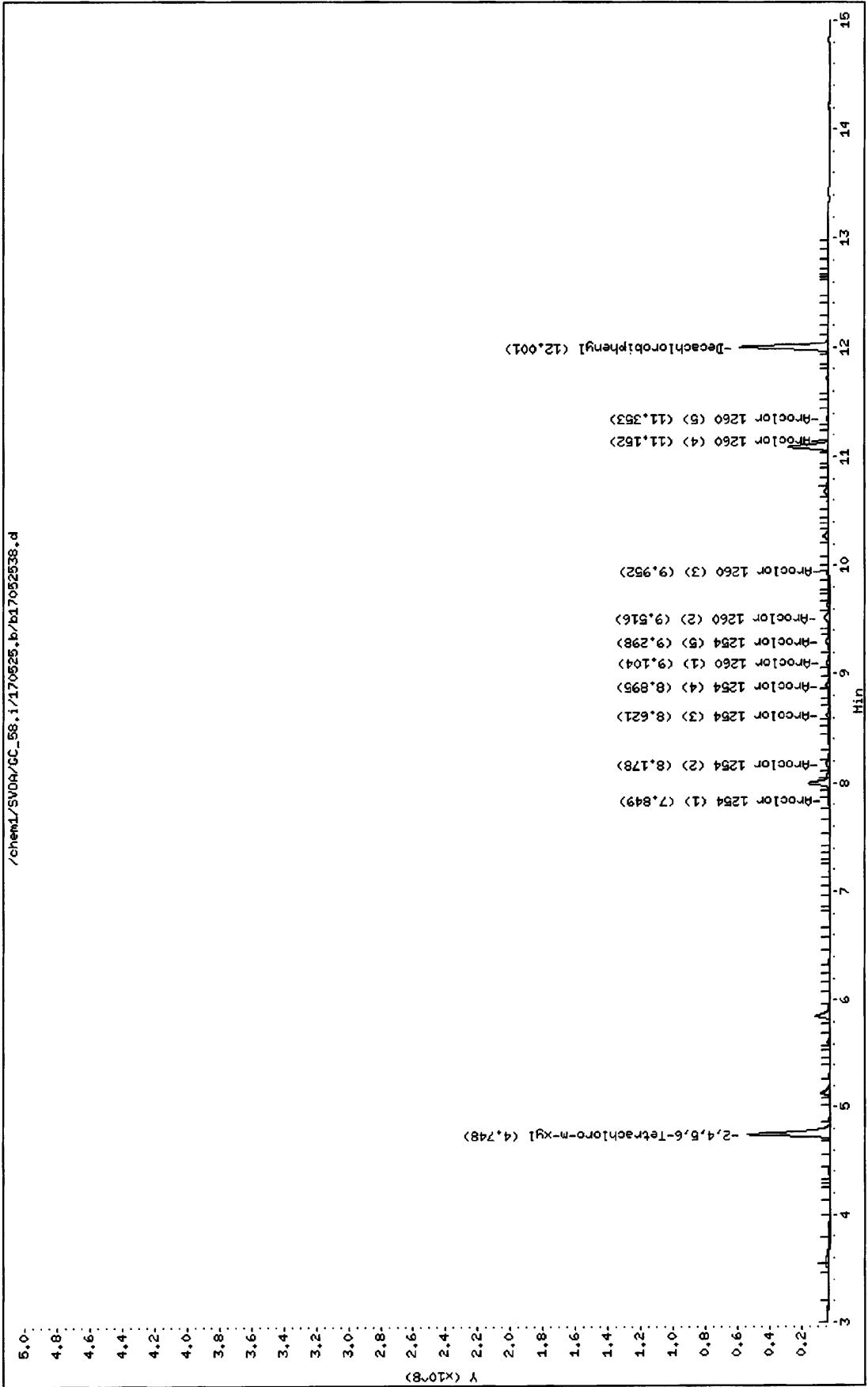
Instrument: GC\_58.i

Operator: 944

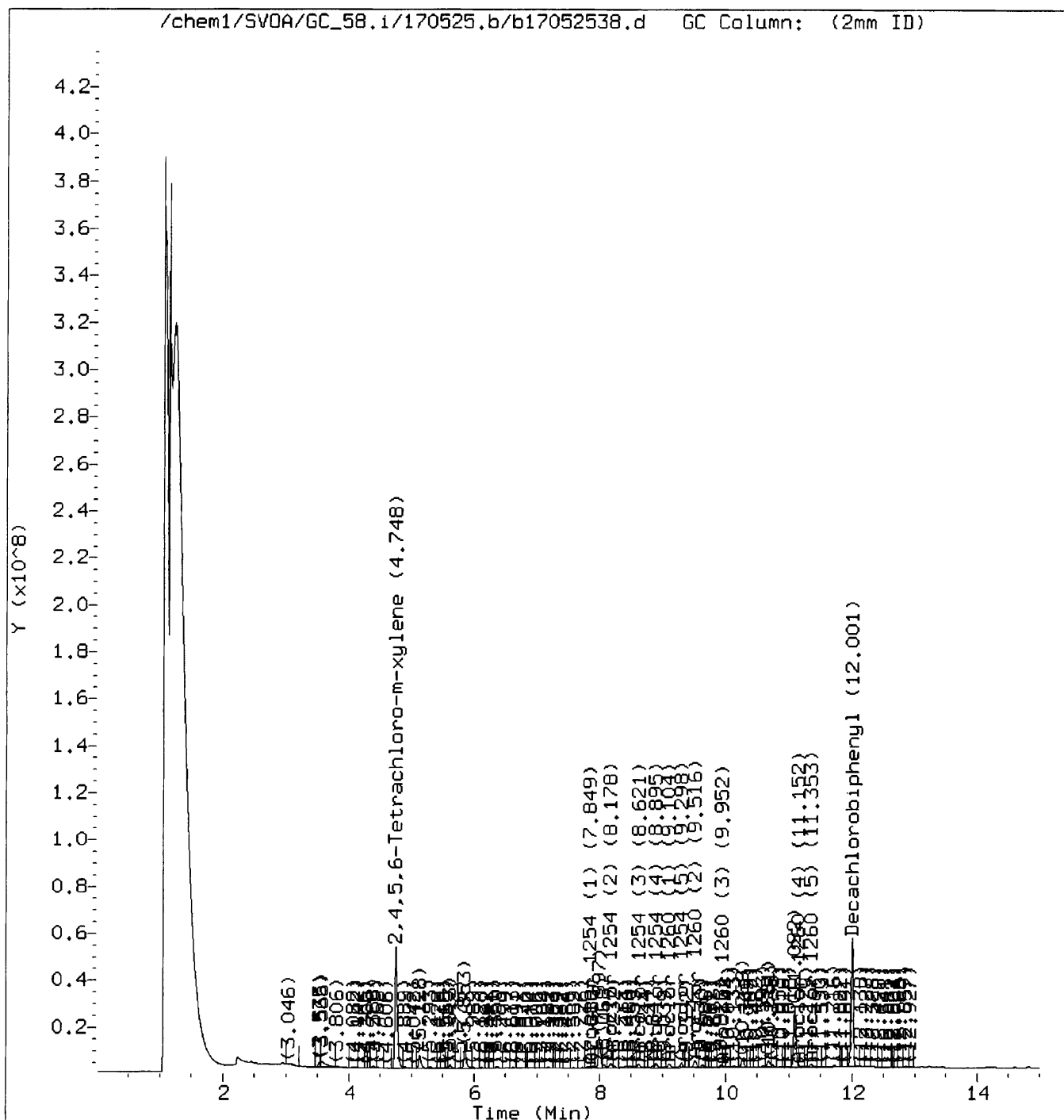
Column diameter: 2.00

Column phase:

/chem1/SV00A/GC\_58.i/170525.lb/b17052538.d



Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

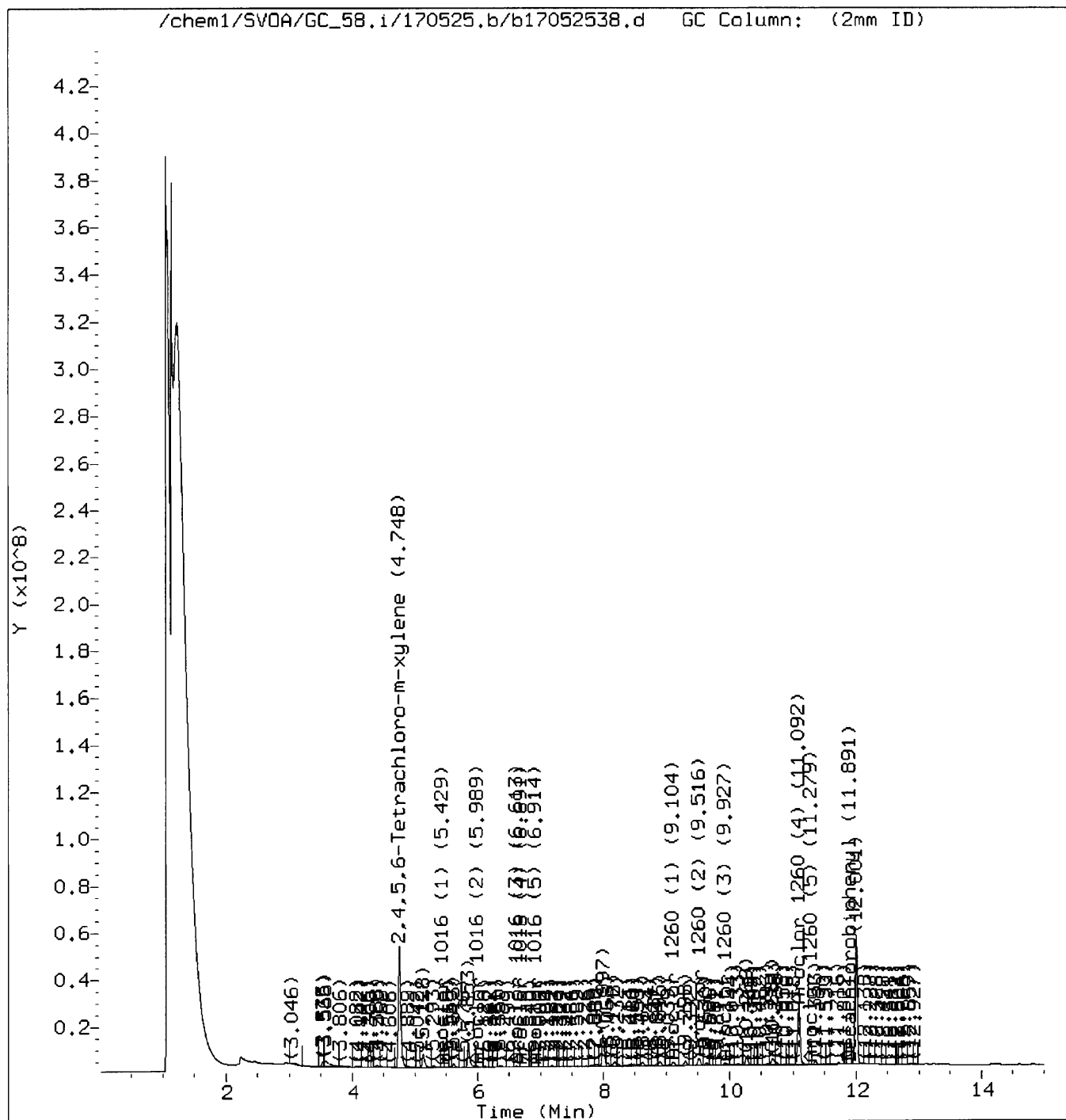
Analyst responsible for change: Digitally signed by Karen Lee  
 on 05/26/2017 at 11:02.  
 Target 3.5 esignature user ID: src3

*m*

Audit/management approval: \_\_\_\_\_



Original Data File



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 22:14  
**REVIEWED BY:** *m*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705253917052539

**# 9**                      **CLIENT SAMPLE NUMBER:** DDP-S009

**LCS/MB BATCH:** 170523L12                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.00 g  
**MS/MSD BATCH:** 170523S12                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	678	1.00	339	50	
Aroclor-1260	0.000	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052539.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052539.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 22:14  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-9  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 39  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.744	4.740	0.004	3847139084	60.6951	60.7
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				Compound Not Detected.		
9 Aroclor 1260 (1)				Compound Not Detected.		
10 Aroclor 1260 (2)				Compound Not Detected.		
11 Aroclor 1260 (3)				Compound Not Detected.		
12 Aroclor 1260 (4)				Compound Not Detected.		
13 Aroclor 1260 (5)				Compound Not Detected.		
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052539.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				8837705920	678.447	678
39 Aroclor 1254 (1)	7.830	7.824	0.006	339079493	153.088	153
40 Aroclor 1254 (2)	8.123	8.120	0.003	698046700	602.462	602 (M)
41 Aroclor 1254 (3)	8.592	8.590	0.002	1835187466	477.292	477
42 Aroclor 1254 (4)	8.854	8.859	-0.005	2631021419	960.960	961
43 Aroclor 1254 (5)	9.256	9.262	-0.006	3334370842	1086.15	1090
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.918	11.920	-0.002	5039440016	80.7112	80.7

## QC Flag Legend

M - Compound response manually integrated.

Data File: /chem1/SV04/GC\_58.i/170525.b/b17052539.d

Date: 25-MAY-2017 22:14

Client ID:

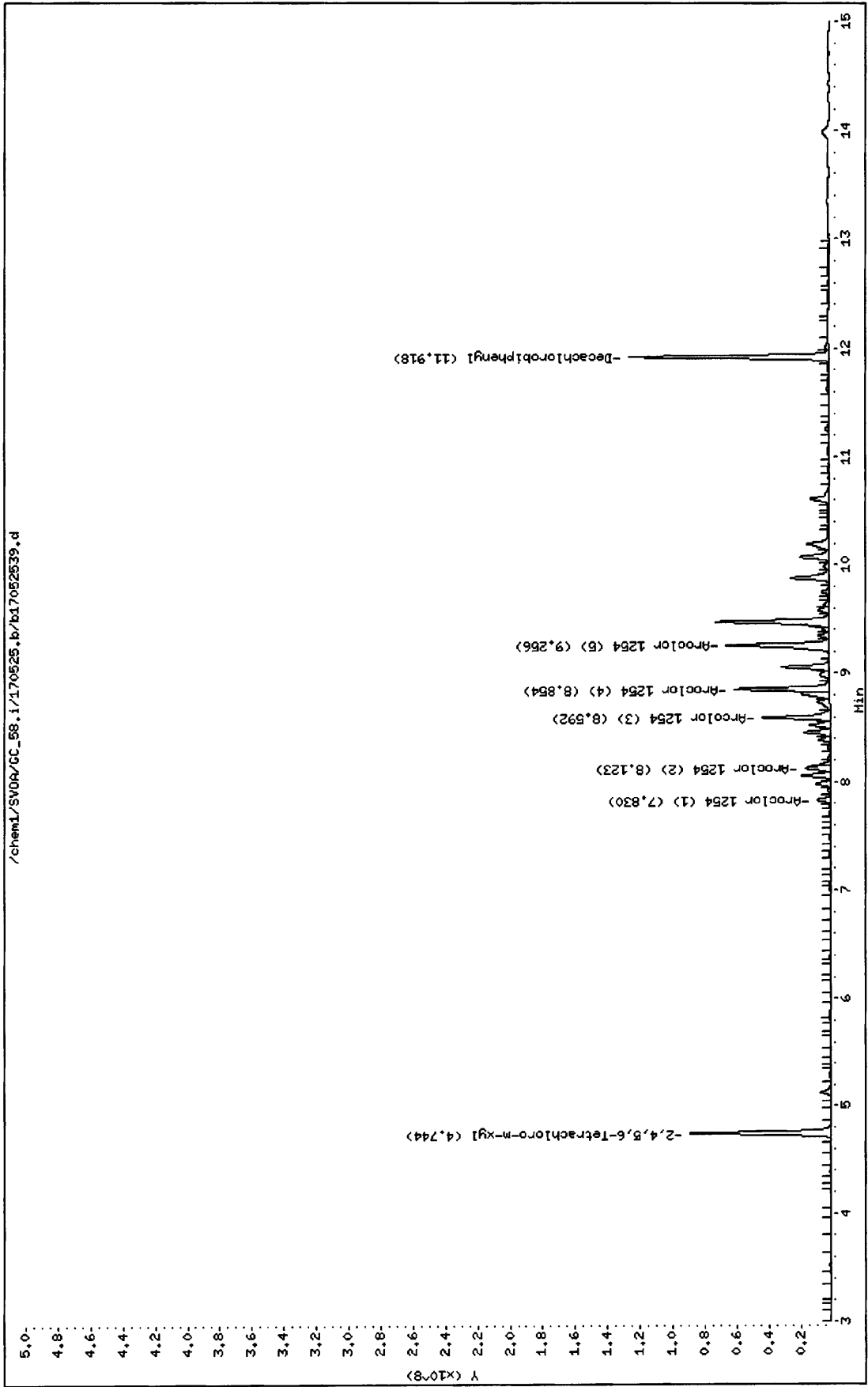
Sample Info: 17-05-1776-9

Instrument: GC\_58.i

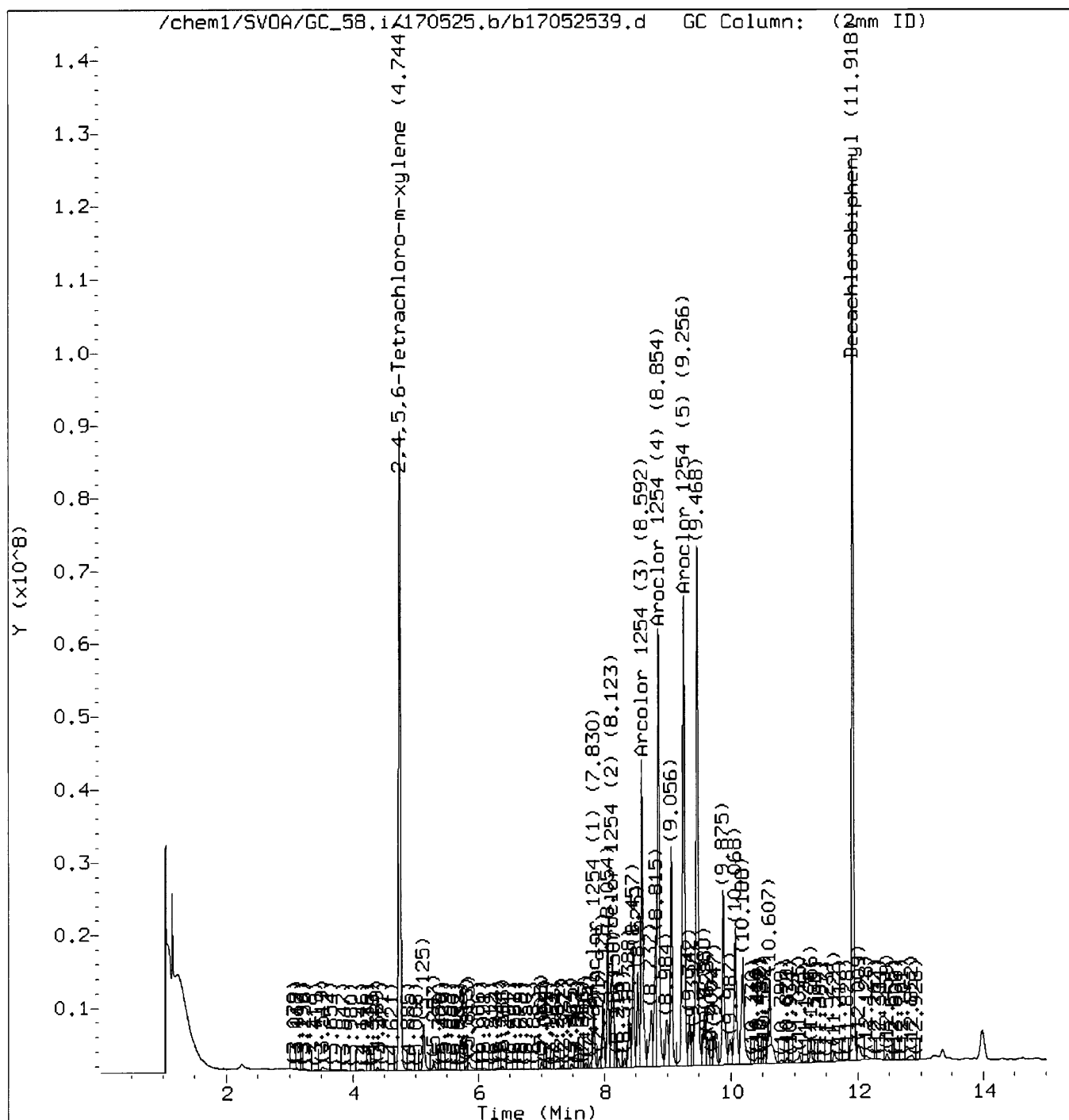
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

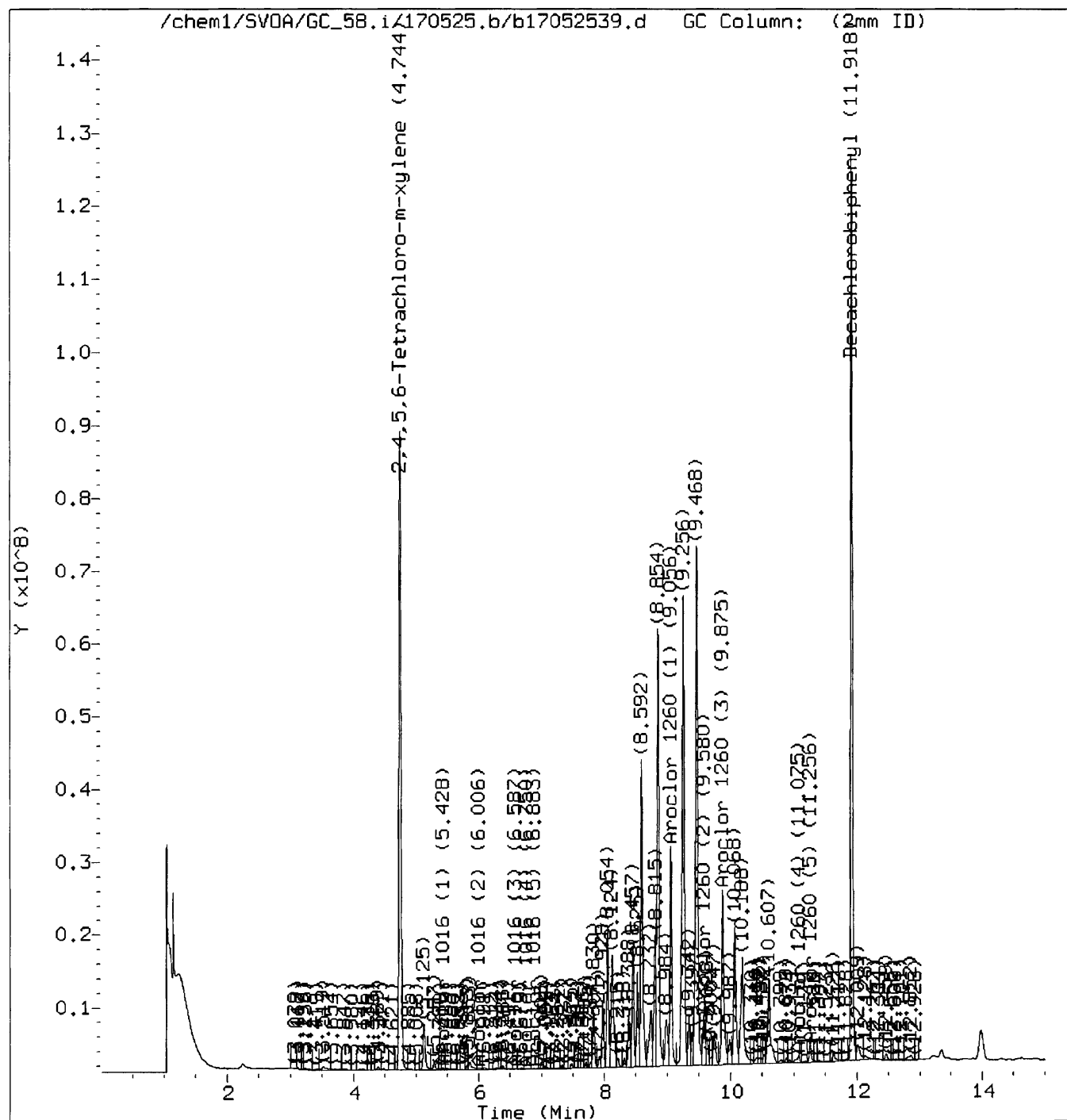
Digitally signed by Karen Lee  
 Analyst responsible for change: on 05/26/2017 at 11:02.  
 Target 3.5 esignature user ID: src3

3

Audit/management approval: \_\_\_\_\_




Original Data File



RAW DATA SHEET  
FOR METHOD: EPA 8082

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-26 16:52  
**REVIEWED BY:**   
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170526/b1705261817052618

**# 10**      **CLIENT SAMPLE NUMBER: DDP-S010**

**LCS/MB BATCH:** 170523L12      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.10 g  
**MS/MSD BATCH:** 170523S12      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	10.0	ND	500	D
Aroclor-1221	0.000	10.0	ND	500	D
Aroclor-1232	0.000	10.0	ND	500	D
Aroclor-1242	0.000	10.0	ND	500	D
Aroclor-1248	0.000	10.0	ND	500	D
Aroclor-1254	850	10.0	4230	500	D
Aroclor-1260	0.000	10.0	ND	500	D
Aroclor-1262	0.000	10.0	ND	500	D
Aroclor-1268	0.000	10.0	ND	500	D

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Data File: /chem1/SVOA/GC\_58.i/170526.b/b17052618.d  
 Report Date: 26-May-2017 17:21

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170526.b/b17052618.d  
 Lab Smp Id:  
 Inj Date : 26-MAY-2017 16:52  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-10 10X  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170526.b/b8082-n2.m  
 Meth Date : 26-May-2017 16:03 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 18  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.744	4.740	0.004	472621864	7.45640	7.46 (R)	
M 2 Aroclor-1016				Compound Not Detected.			
3 Aroclor 1016 (1)				Compound Not Detected.			
4 Aroclor 1016 (2)				Compound Not Detected.			
5 Aroclor 1016 (3)				Compound Not Detected.			
6 Aroclor 1016 (4)				Compound Not Detected.			
7 Aroclor 1016 (5)				Compound Not Detected.			
M 8 Aroclor-1260				Compound Not Detected.			
9 Aroclor 1260 (1)				Compound Not Detected.			
10 Aroclor 1260 (2)				Compound Not Detected.			
11 Aroclor 1260 (3)				Compound Not Detected.			
12 Aroclor 1260 (4)				Compound Not Detected.			
13 Aroclor 1260 (5)				Compound Not Detected.			
M 14 Aroclor-1221				Compound Not Detected.			
15 Aroclor 1221 (1)				Compound Not Detected.			
16 Aroclor 1221 (2)				Compound Not Detected.			
17 Aroclor 1221 (3)				Compound Not Detected.			
18 Aroclor 1221 (4)				Compound Not Detected.			
19 Aroclor 1221 (5)				Compound Not Detected.			
M 20 Aroclor-1232				Compound Not Detected.			
21 Aroclor 1232 (1)				Compound Not Detected.			



Data File: /chem1/SVOA/GC\_58.i/170526.b/b17052618.d  
 Report Date: 26-May-2017 17:21

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
===== 22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				11065934080	849.502	850
39 Aroclor 1254 (1)	7.832	7.824	0.008	698072638	315.167	315
40 Aroclor 1254 (2)	8.123	8.120	0.003	1088751252	939.666	940 (M)
41 Aroclor 1254 (3)	8.593	8.590	0.003	2418701733	629.052	629
42 Aroclor 1254 (4)	8.855	8.859	-0.004	3233064130	1180.85	1180
43 Aroclor 1254 (5)	9.256	9.262	-0.006	3627344326	1181.59	1180
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.917	11.920	-0.003	566659974	9.07558	9.08 (R)

### QC Flag Legend

R - Spike/Surrogate failed recovery limits.  
 M - Compound response manually integrated.

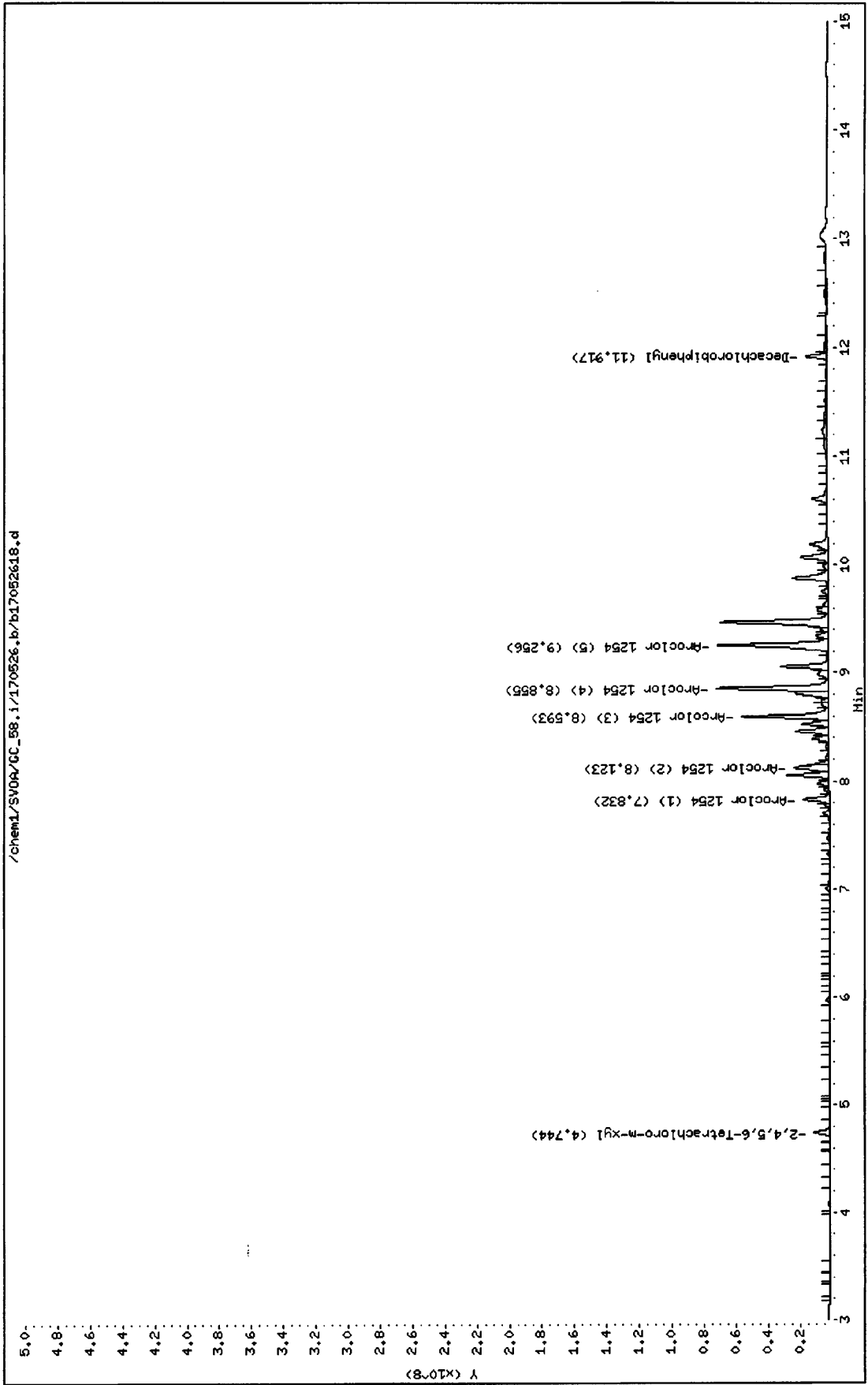
Data File: /chem1/SV0A/GC\_58.i/170526.b/b17052618.d  
Date : 26-MAY-2017 16:52  
Client ID:  
Sample Info: 17-05-1776-10 10X

Instrument: GC\_58.i

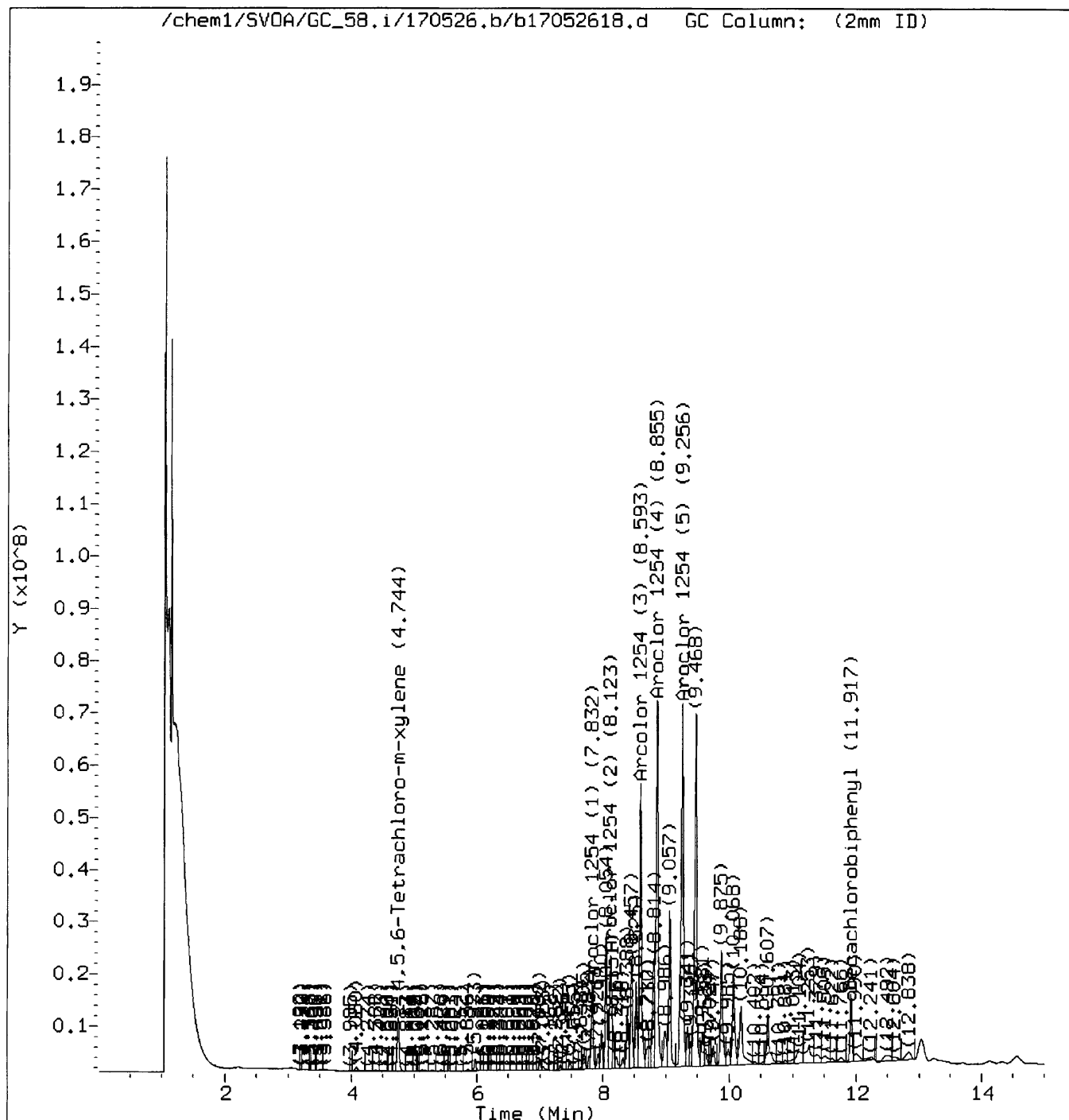
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



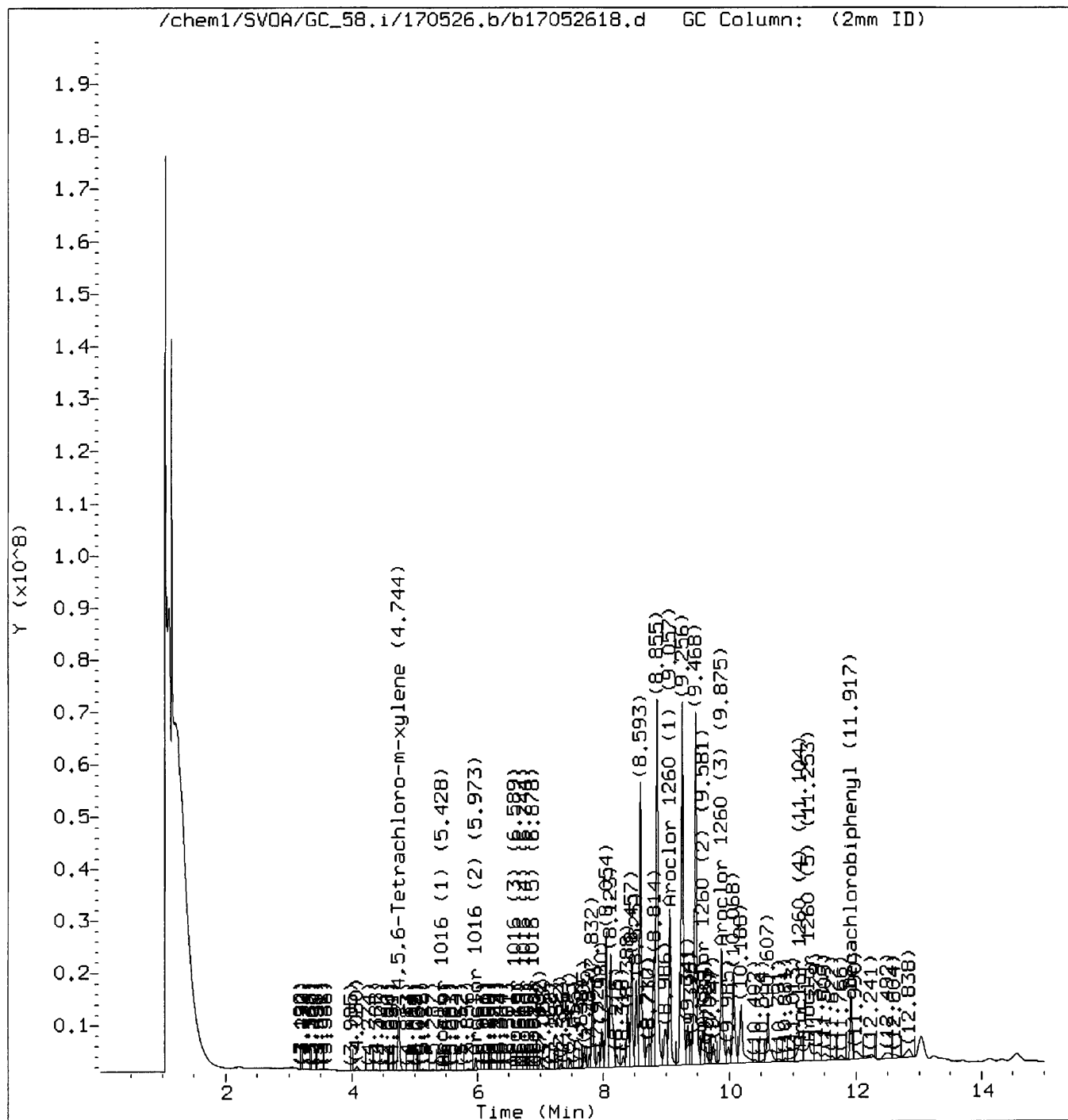
Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee  
 Analyst responsible for change: on 05/26/2017 at 17:22.  
 Target 3.5 esignature user ID: src3

Audit/management approval: \_\_\_\_\_



Original Data File



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052540.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052540.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 22:32  
 Operator : 944  
 Smp Info : 17-05-1776-10  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3  
 Cal Date : 23-MAY-2017 19:33  
 Als bottle: 40  
 Dil Factor: 1.00000  
 Integrator: HP Genie  
 Target Version: 3.50  
 Processing Host: US26TAR4

Inst ID: GC\_58.i

*Ref.*

Compound Sublist: all.sub

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.745	4.740	0.005	4727181127	74.5792	74.6
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				Compound Not Detected.		
9 Aroclor 1260 (1)				Compound Not Detected.		
10 Aroclor 1260 (2)				Compound Not Detected.		
11 Aroclor 1260 (3)				Compound Not Detected.		
12 Aroclor 1260 (4)				Compound Not Detected.		
13 Aroclor 1260 (5)				Compound Not Detected.		
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052540.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
===== 22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				110312177569	8468.37	8470 (A)
39 Aroclor 1254 (1)	7.833	7.824	0.009	6398459840	2888.79	2890 (A)
40 Aroclor 1254 (2)	8.124	8.120	0.004	10054193856	8677.45	8680 (AM)
41 Aroclor 1254 (3)	8.593	8.590	0.003	24140815186	6278.50	6280 (A)
42 Aroclor 1254 (4)	8.855	8.859	-0.004	32292876952	11794.7	11800 (A)
43 Aroclor 1254 (5)	9.257	9.262	-0.005	37425831735	12191.3	12200 (A)
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.919	11.920	-0.001	5328462628	85.3402	85.3

### QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

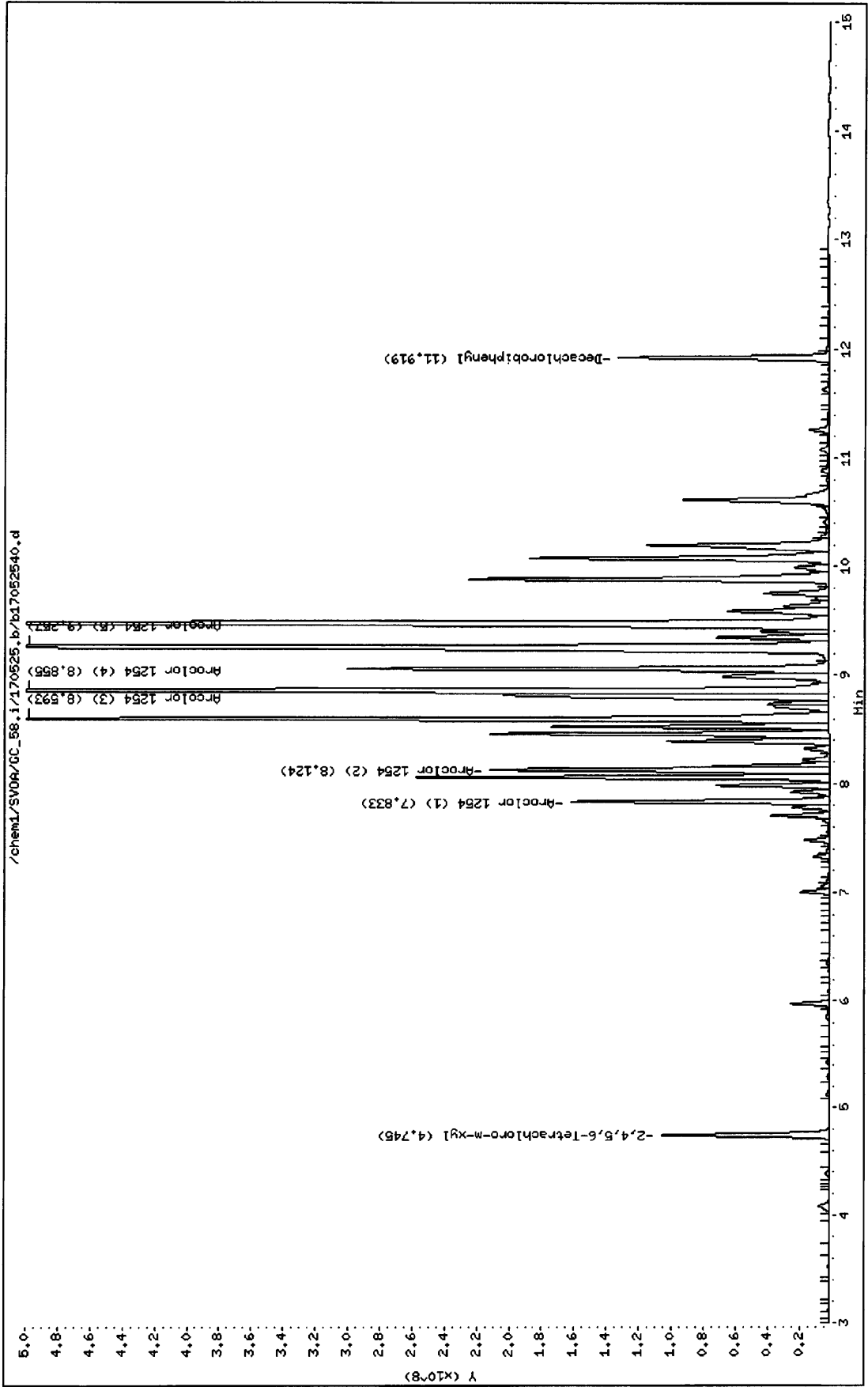
Data File: /chem1/SV00A/GC\_58.i/170525.b/b17052540.d  
Date : 25-MAY-2017 22:32  
Client ID:  
Sample Info: 17-05-1776-10

Instrument: GC\_58.i

Operator: 944

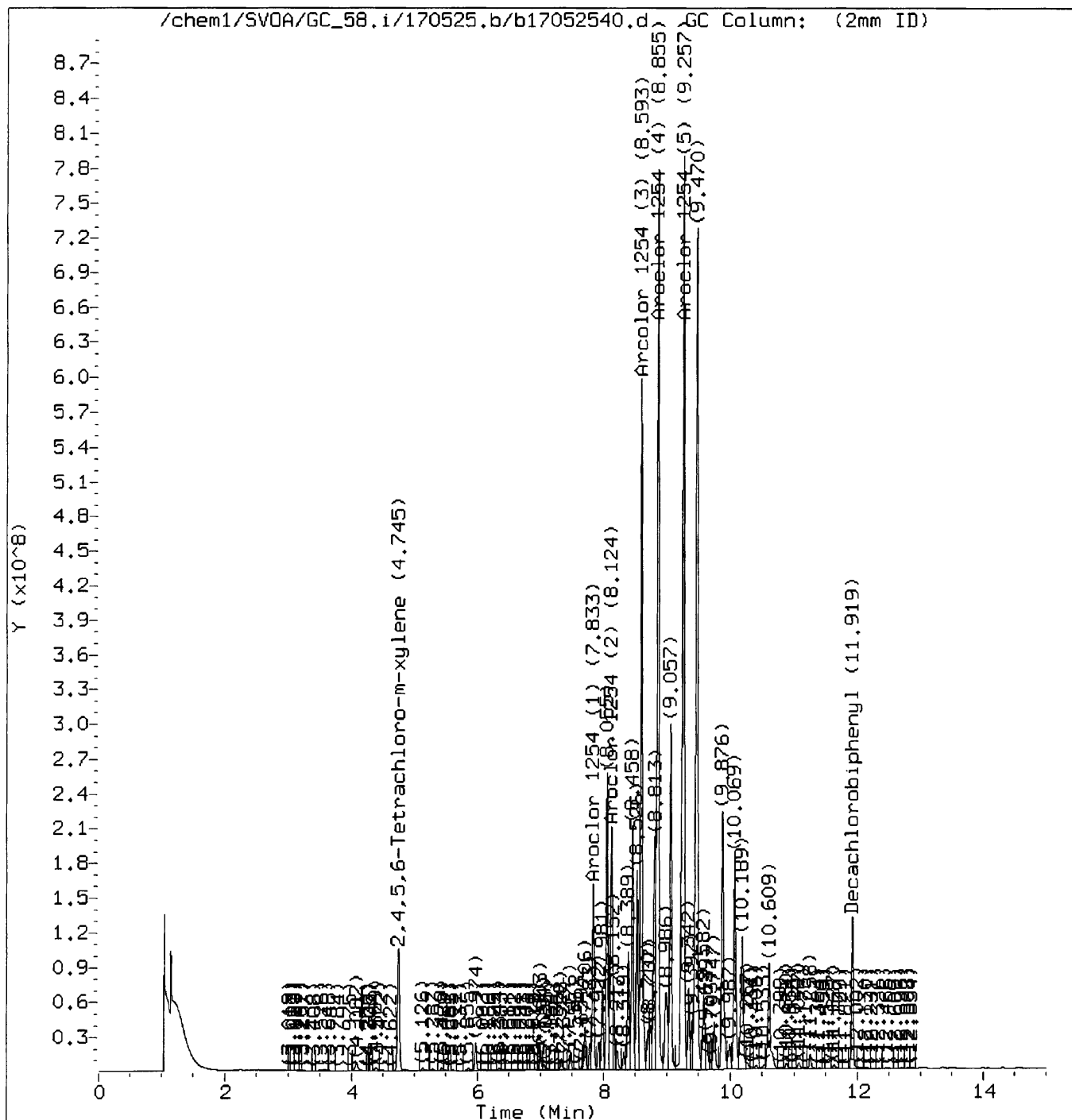
Column diameter: 2.00

Column phase:





Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

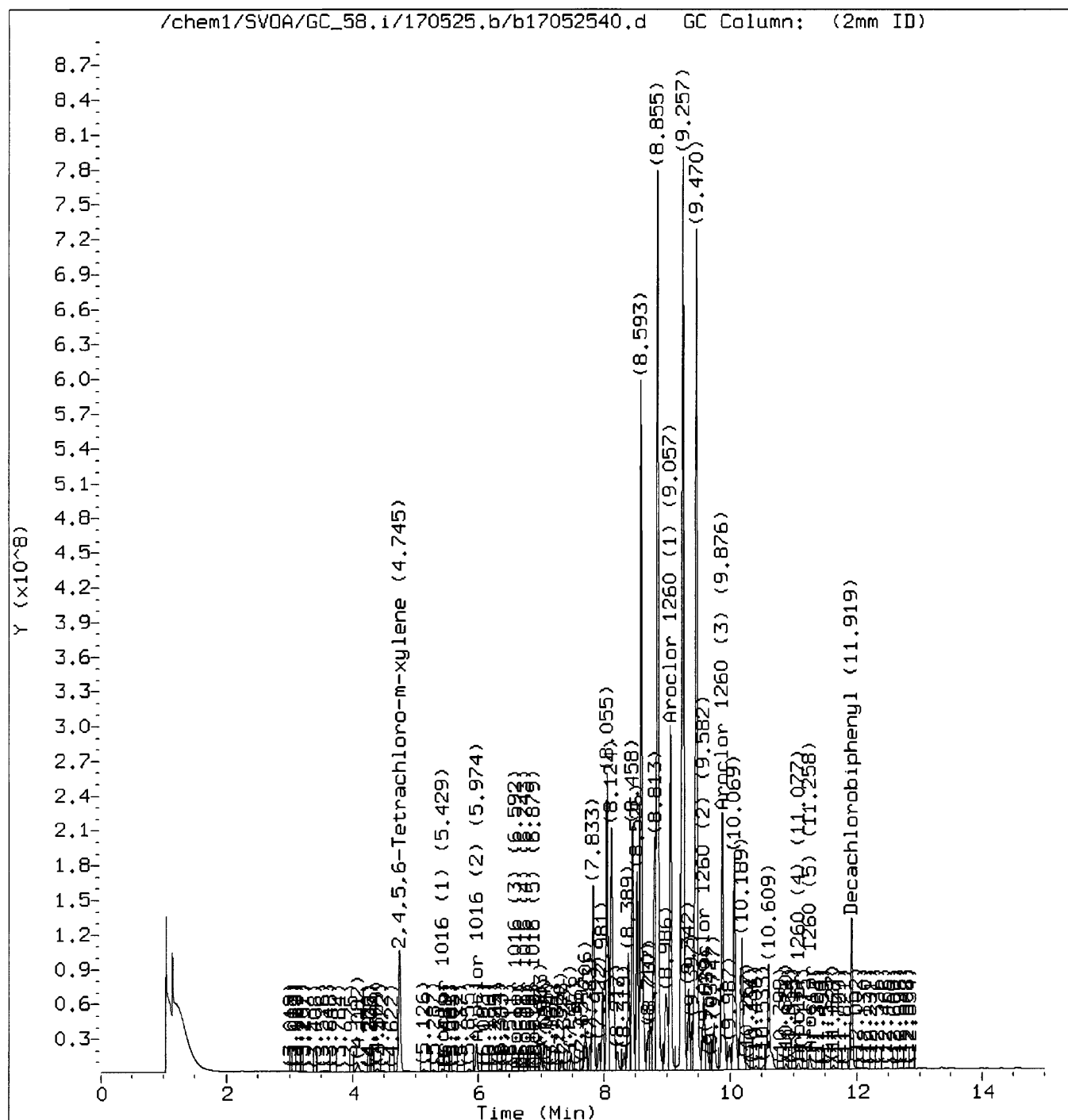
Digitally signed by Karen Lee

Analyst responsible for change: on 05/26/2017 at 11:02.

Target 3.5 esignature user ID: src3

Audit/management approval: \_\_\_\_\_ *u*

Original Data File



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 22:50  
**REVIEWED BY:**  
**D/T REVIEWED:** *M*

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705254117052541

**# 11**                      **CLIENT SAMPLE NUMBER: DDP-S011**

<b>LCS/MB BATCH:</b> 170523L12	<b>SAMPLE VOLUME / WEIGHT:</b> DEFAULT: 20.00 g / ACTUAL: 20.00 g
<b>MS/MSD BATCH:</b> 170523S12	<b>FINAL VOLUME / WEIGHT:</b> DEFAULT: 10.00 ml / ACTUAL: 10.00 ml
<b>UNITS:</b> ug/kg	<b>ADJUSTMENT RATIO TO PF:</b> 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	55.1	1.00	ND	50	
Aroclor-1260	56.2	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052541.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052541.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 22:50  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-11  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 41  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.749	4.740	0.009	4289068880	67.6672	67.7
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260				648529779	56.2128	56.2 (a)
9 Aroclor 1260 (1)	9.119	9.057	0.062	155742348	45.1427	45.1 (a)
10 Aroclor 1260 (2)	9.646	9.570	0.076	159126995	62.1536	62.2 (a)
11 Aroclor 1260 (3)	9.943	9.908	0.035	155540696	54.2654	54.3 (a)
12 Aroclor 1260 (4)	11.160	11.081	0.079	54201804	66.8860	66.9 (aM)
13 Aroclor 1260 (5)	11.366	11.264	0.102	123917936	66.9764	67.0 (a)
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052541.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)						
23 Aroclor 1232 (3)						
24 Aroclor 1232 (4)						
25 Aroclor 1232 (5)						
M 26 Aroclor-1242						
27 Aroclor 1242 (1)						
28 Aroclor 1242 (2)						
29 Aroclor 1242 (3)						
30 Aroclor 1242 (4)						
31 Aroclor 1242 (5)						
M 32 Aroclor-1248						
33 Aroclor 1248 (1)						
34 Aroclor 1248 (2)						
35 Aroclor 1248 (3)						
36 Aroclor 1248 (4)						
37 Aroclor 1248 (5)						
M 38 Aroclor-1254				717445736	55.0764	55.1 (a)
39 Aroclor 1254 (1)	7.855	7.824	0.031	76761579	34.6564	34.6 (a)
40 Aroclor 1254 (2)	8.157	8.120	0.037	30202982	26.0672	26.1 (aM)
41 Aroclor 1254 (3)	8.631	8.590	0.041	164875210	42.8805	42.9 (a)
42 Aroclor 1254 (4)	8.908	8.859	0.049	198099880	72.3545	72.4 (aM)
43 Aroclor 1254 (5)	9.311	9.262	0.049	247506085	80.6238	80.6 (a)
M 44 Aroclor-1262						
45 Aroclor 1262 (1)						
46 Aroclor 1262 (2)						
47 Aroclor 1262 (3)						
48 Aroclor 1262 (4)						
49 Aroclor 1262 (5)						
M 50 Aroclor-1268						
51 Aroclor 1268 (1)						
52 Aroclor 1268 (2)						
53 Aroclor 1268 (3)						
54 Aroclor 1268 (4)						
55 Aroclor 1268 (5)						
T 56 Decachlorobiphenyl	12.005	11.920	0.085	3135347415	50.2154	50.2

### QC Flag Legend

- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: /chem1/SV0A/GC\_58.i/170525.b/b17052541.d

Date : 25-MAY-2017 22:50

Client ID:

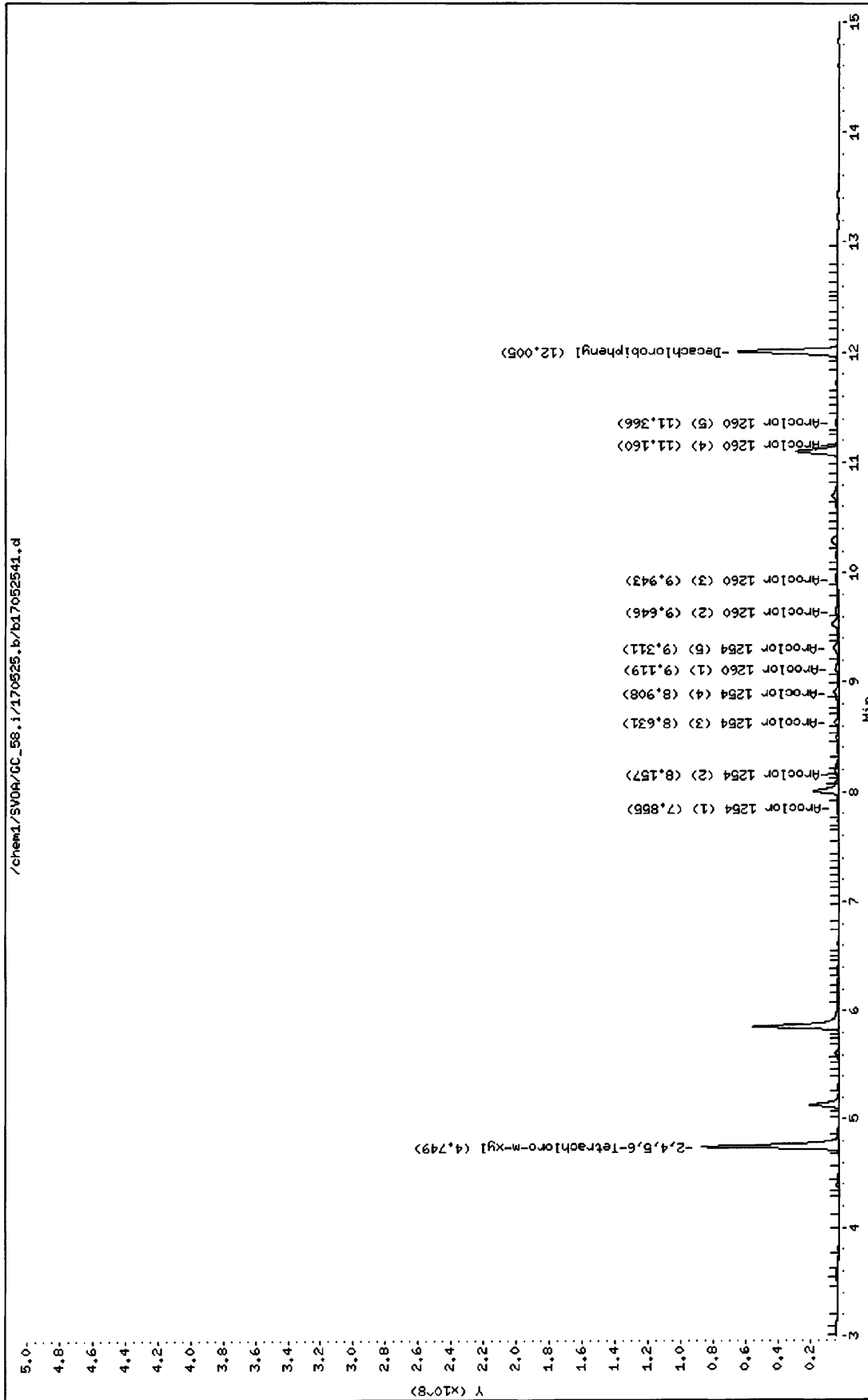
Sample Info: 17-05-1776-11

Instrument: GC\_58.i

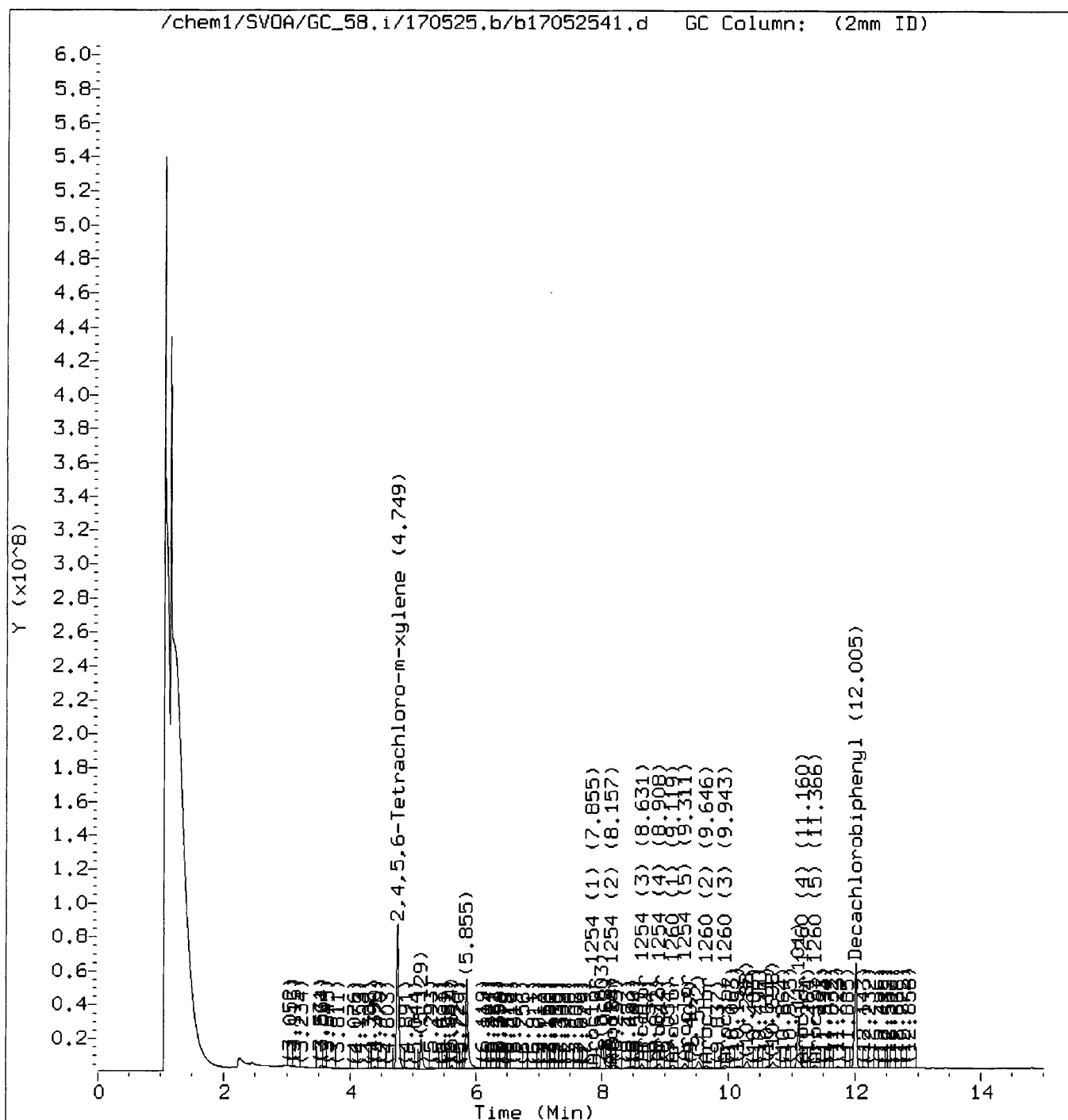
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee

Analyst responsible for change: on 05/26/2017 at 11:02.

Target 3.5 esignature user ID: src3

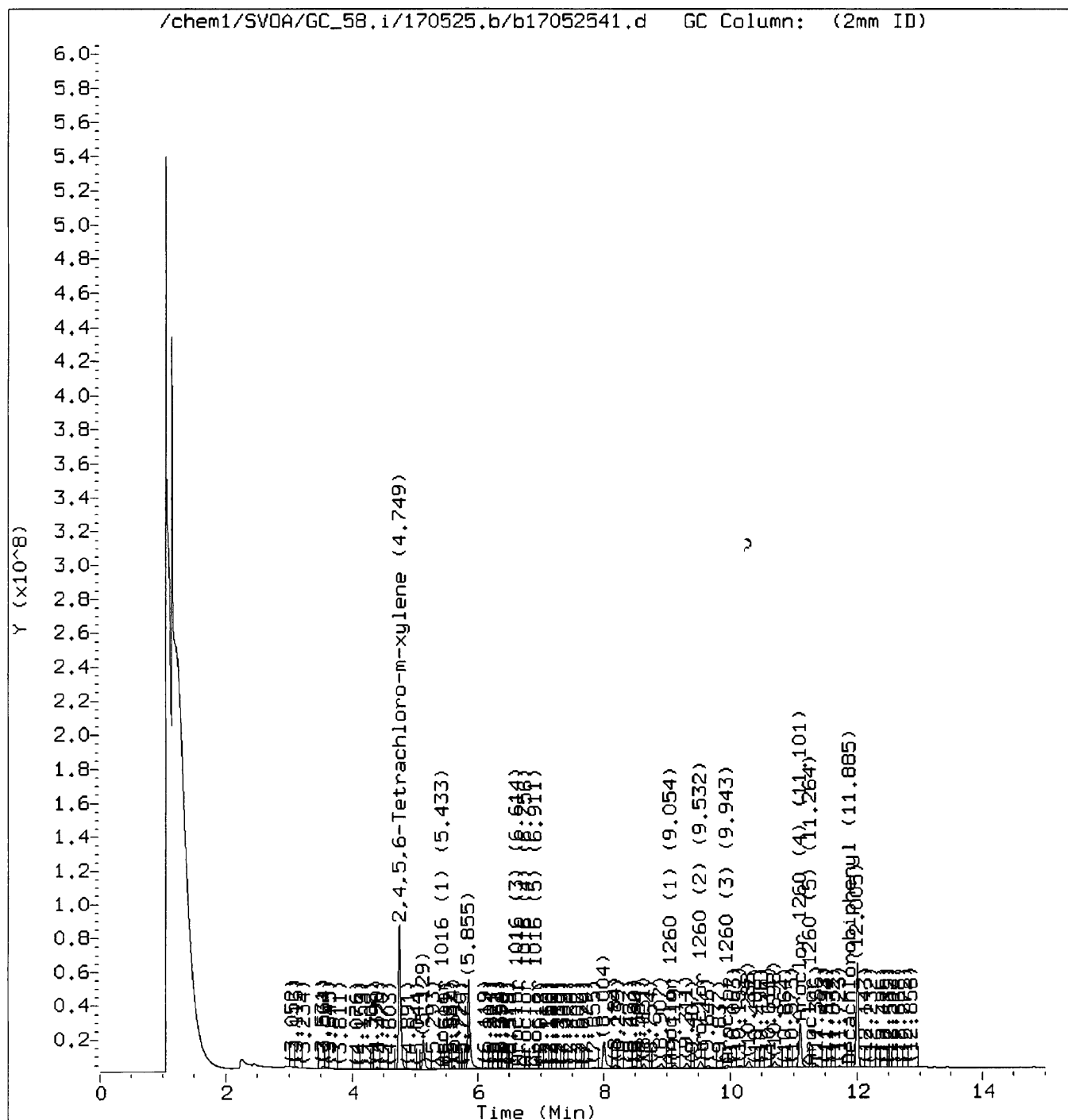
Audit/management approval: \_\_\_\_\_

*m*



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Original Data File





# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-26 17:10  
**REVIEWED BY:**  
**D/T REVIEWED:** .M

**DATA FILE:** /chem1/SVOA/GC\_58/170526/b1705261917052619

**# 12**                      **CLIENT SAMPLE NUMBER: TP-S001**

**LCS/MB BATCH:** 170523L12                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.00 g  
**MS/MSD BATCH:** 170523S12                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	10.0	ND	500	D
Aroclor-1221	0.000	10.0	ND	500	D
Aroclor-1232	0.000	10.0	ND	500	D
Aroclor-1242	0.000	10.0	ND	500	D
Aroclor-1248	0.000	10.0	ND	500	D
Aroclor-1254	437	10.0	2180	500	D
Aroclor-1260	339	10.0	1700	500	D
Aroclor-1262	0.000	10.0	ND	500	D
Aroclor-1268	0.000	10.0	ND	500	D



Data File: /chem1/SVOA/GC\_58.i/170526.b/b17052619.d  
 Report Date: 26-May-2017 17:37

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170526.b/b17052619.d  
 Lab Smp Id:  
 Inj Date : 26-MAY-2017 17:10  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-12 10X  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170526.b/b8082-n2.m  
 Meth Date : 26-May-2017 16:03 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 19  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.745	4.740	0.005		324463403	5.11895	5.12 (R)
M 2 Aroclor-1016					Compound Not Detected.		
3 Aroclor 1016 (1)					Compound Not Detected.		
4 Aroclor 1016 (2)					Compound Not Detected.		
5 Aroclor 1016 (3)					Compound Not Detected.		
6 Aroclor 1016 (4)					Compound Not Detected.		
7 Aroclor 1016 (5)					Compound Not Detected.		
M 8 Aroclor-1260					3911768081	339.061	339
9 Aroclor 1260 (1)	9.057	9.057	0.000		1846963067	535.352	535
10 Aroclor 1260 (2)	9.570	9.570	0.000		920505864	359.541	360
11 Aroclor 1260 (3)	9.899	9.908	-0.009		438236251	152.893	153 (M)
12 Aroclor 1260 (4)	11.076	11.081	-0.005		169203424	208.800	209
13 Aroclor 1260 (5)	11.256	11.263	-0.007		536859475	290.167	290
M 14 Aroclor-1221					Compound Not Detected.		
15 Aroclor 1221 (1)					Compound Not Detected.		
16 Aroclor 1221 (2)					Compound Not Detected.		
17 Aroclor 1221 (3)					Compound Not Detected.		
18 Aroclor 1221 (4)					Compound Not Detected.		
19 Aroclor 1221 (5)					Compound Not Detected.		
M 20 Aroclor-1232					Compound Not Detected.		
21 Aroclor 1232 (1)					Compound Not Detected.		



Data File: /chem1/SVOA/GC\_58.i/170526.b/b17052619.d  
 Report Date: 26-May-2017 17:37

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				5693376926	437.065	437
39 Aroclor 1254 (1)	7.831	7.824	0.007	130102636	58.7389	58.7 (a)
40 Aroclor 1254 (2)	8.124	8.120	0.004	134080442	115.721	116
41 Aroclor 1254 (3)	8.592	8.590	0.002	884667437	230.083	230
42 Aroclor 1254 (4)	8.855	8.859	-0.004	1950977873	712.580	712
43 Aroclor 1254 (5)	9.257	9.262	-0.005	2593548538	844.835	845
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.917	11.920	-0.003	361752050	5.79379	5.79 (R)

#### QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation (BLOQ).
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: /chem1/SV00A/GC\_58.i/170526.b/b17052619.d

Date : 26-MAY-2017 17:10

Client ID:

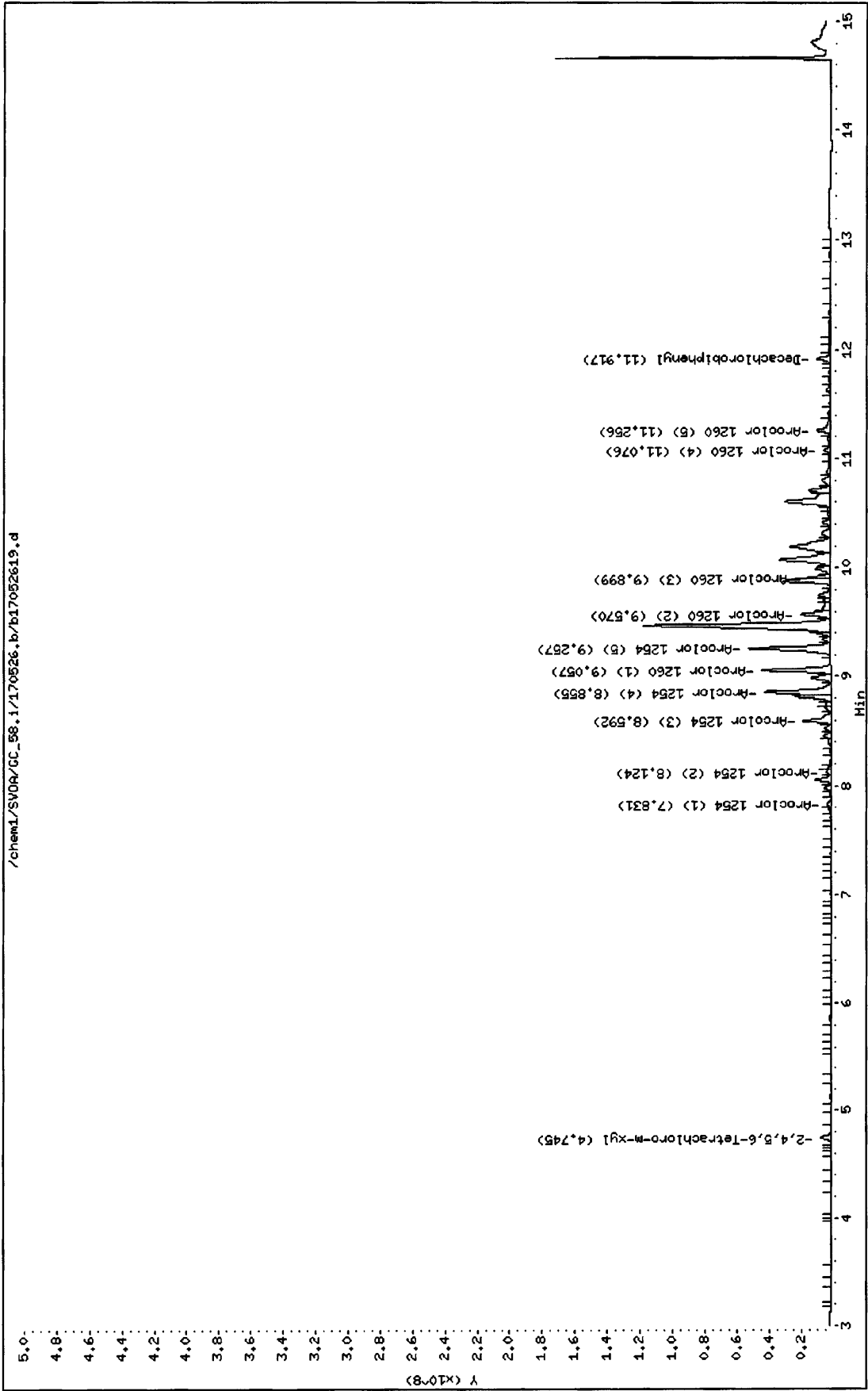
Sample Info: 17-06-1776-12 10X

Instrument: GC\_58.i

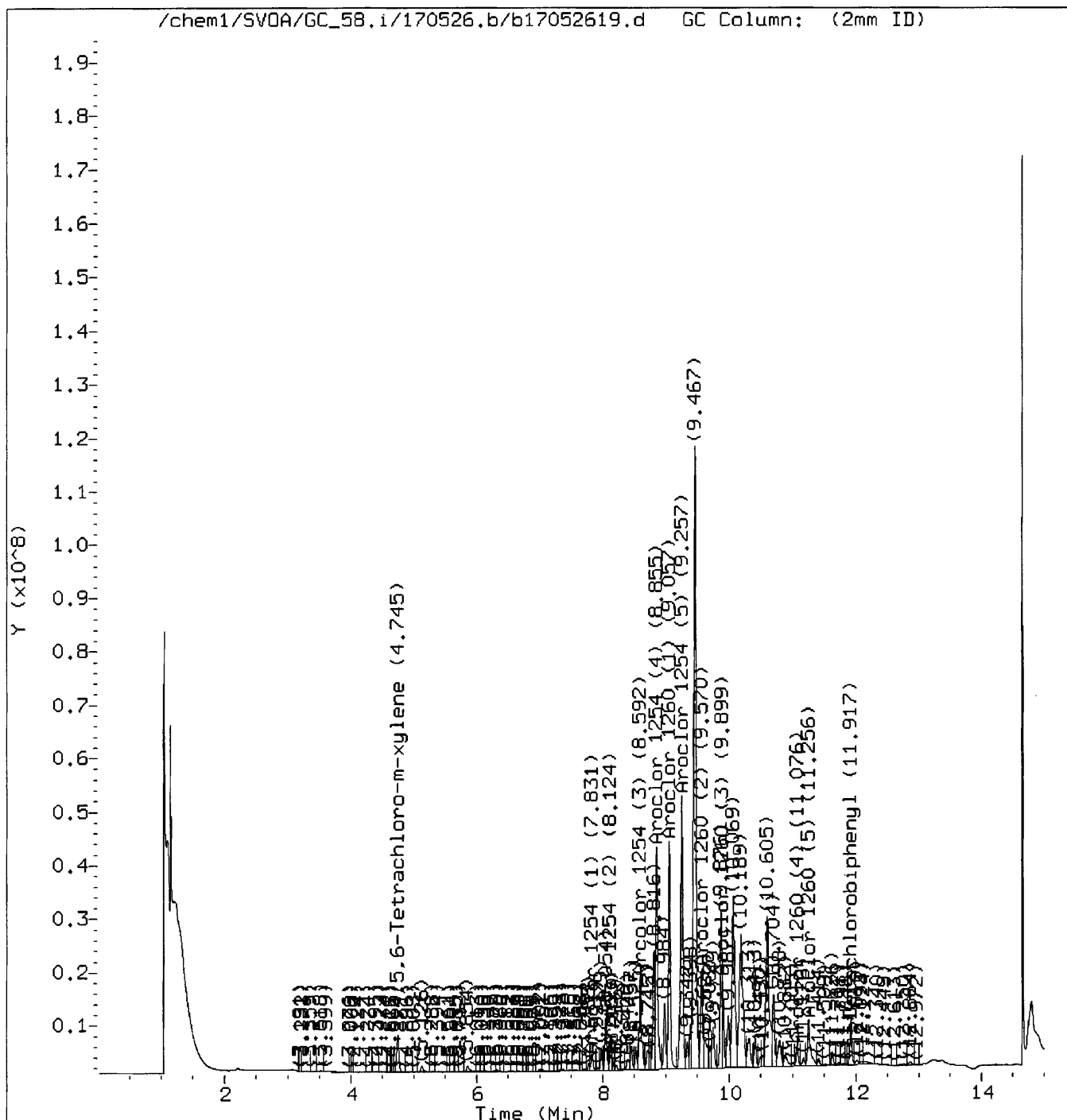
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

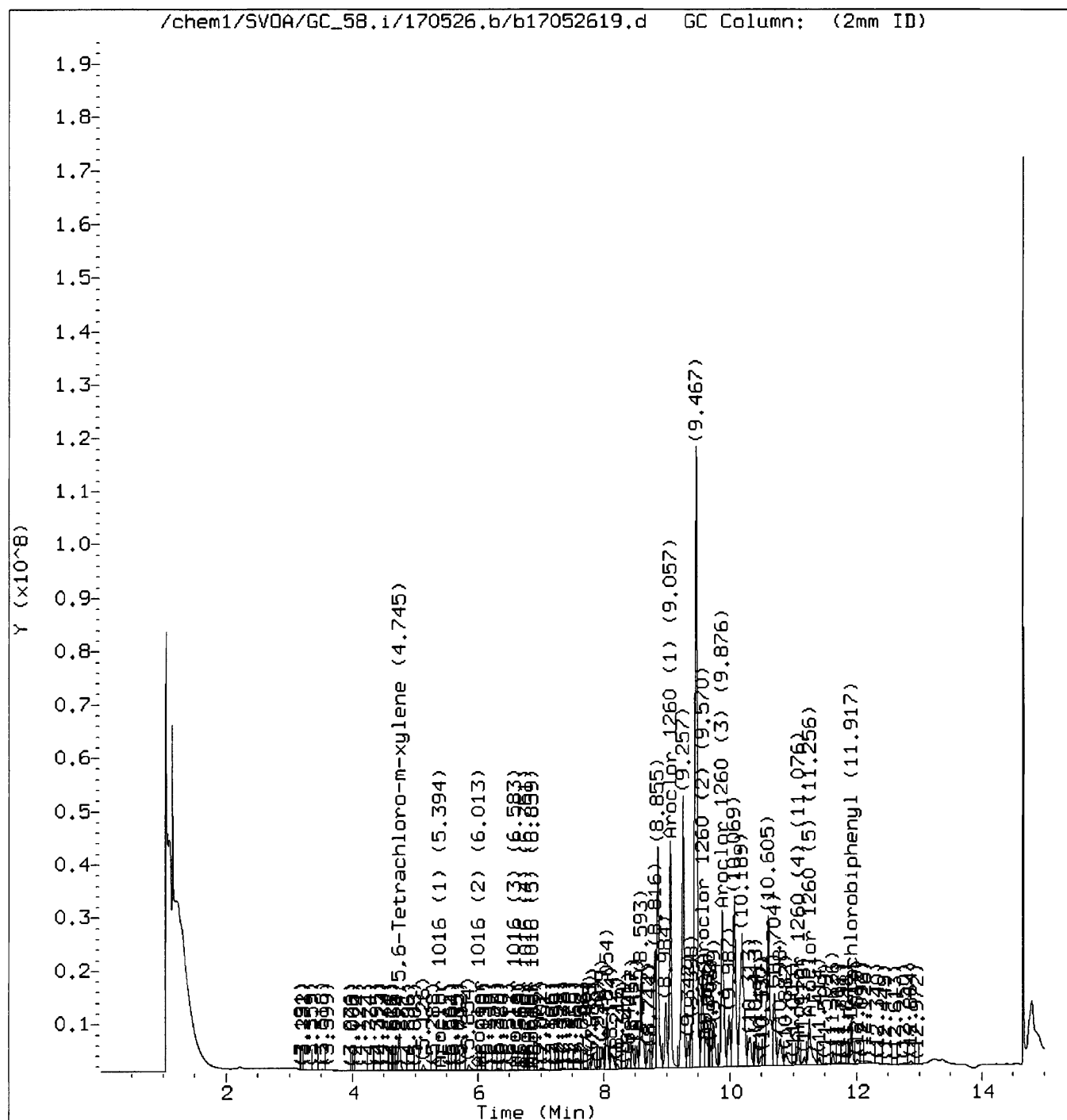
Digitally signed by Karen Lee

Analyst responsible for change: on 05/26/2017 at 17:37.

Target 3.5 esignature user ID: src3

Audit/management approval: \_\_\_\_\_ *m*

Original Data File



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052542.d  
 Report Date: 26-May-2017 11:01

Eurofins Calscience

*Ref*

EPA 8082/A PCB analysis  
 Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052542.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 23:07  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-12  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 42  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.744	4.740	0.004	3181307181	50.1904	50.2
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260				35856729304	3107.96	3110 (A)
9 Aroclor 1260 (1)	9.056	9.057	-0.001	16562753071	4800.80	4800 (A)
10 Aroclor 1260 (2)	9.570	9.570	0.000	8292292703	3238.89	3240 (A)
11 Aroclor 1260 (3)	9.898	9.908	-0.010	3765810501	1313.82	1310 (M)
12 Aroclor 1260 (4)	11.075	11.081	-0.006	2077894822	2564.16	2560 (A)
13 Aroclor 1260 (5)	11.256	11.264	-0.008	5157978208	2787.84	2790 (A)
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052542.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						53060953106	4073.35	4070 (A)
39 Aroclor 1254 (1)	7.831	7.824	0.007		870171859	392.866		393
40 Aroclor 1254 (2)	8.124	8.120	0.004		978902186	844.859		845
41 Aroclor 1254 (3)	8.592	8.590	0.002		7934579898	2063.61		2060 (A)
42 Aroclor 1254 (4)	8.854	8.859	-0.005		17942597189	6553.40		6550 (A)
43 Aroclor 1254 (5)	9.255	9.262	-0.007		25334701973	8252.65		8250 (A)
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	11.918	11.920	-0.002		3501204026	56.0750		56.1

### QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.



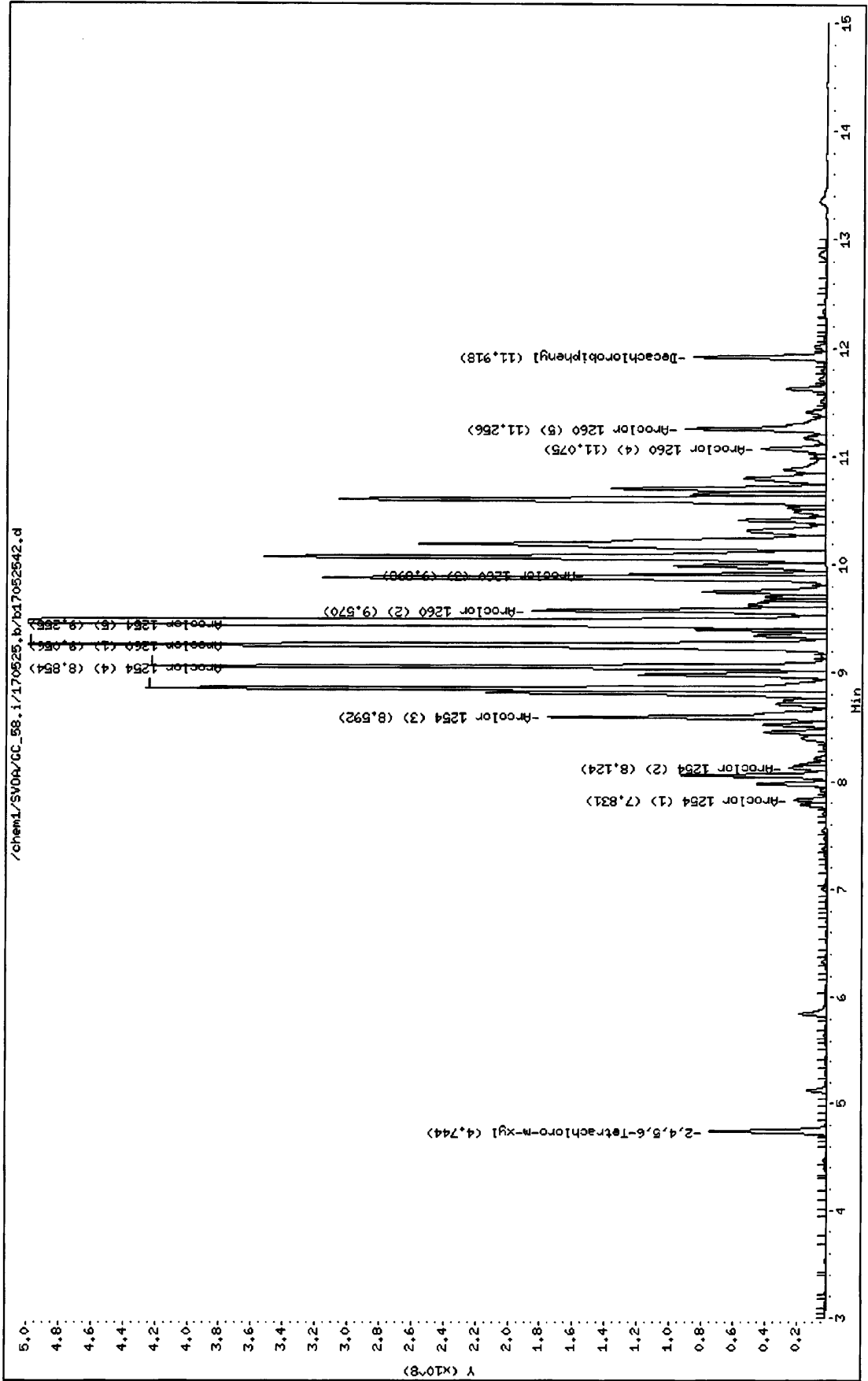
Data File: /chem1/SV04/CC\_58.i/170525.b/b17052542.d  
Date : 25-MAY-2017 23:07  
Client ID:  
Sample Info: 17-05-1776-12

Instrument: GC\_58.i

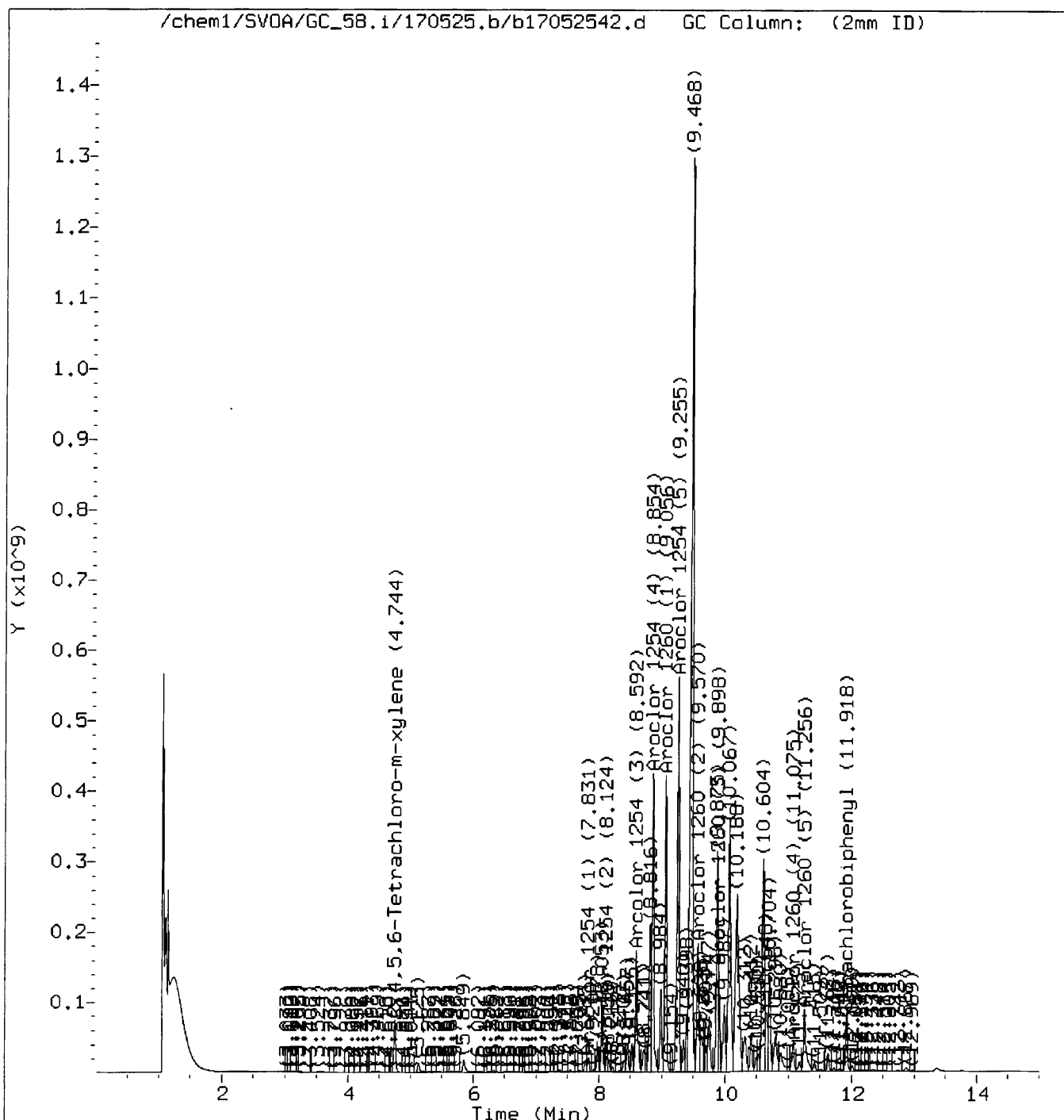
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee

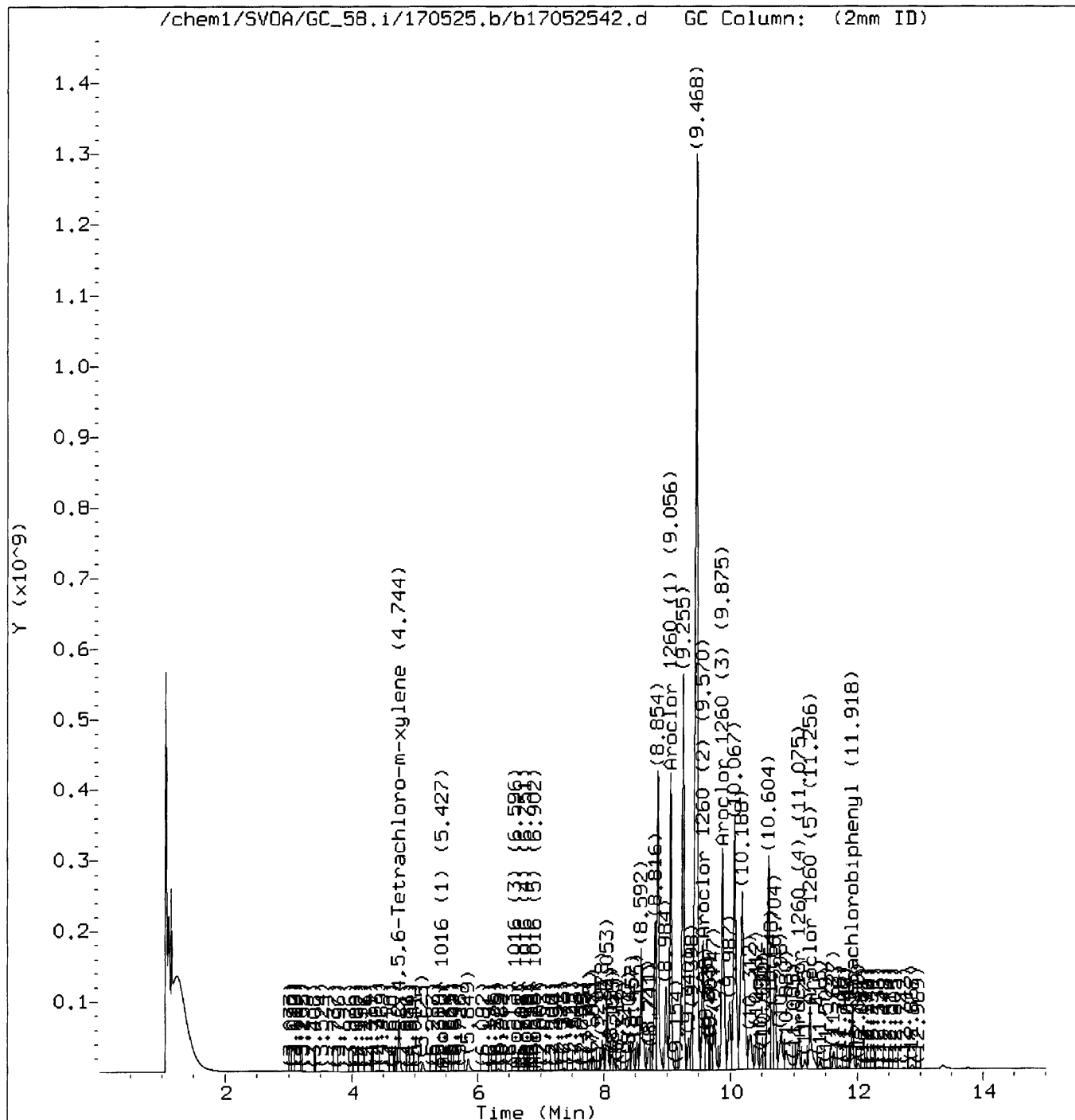
Analyst responsible for change: on 05/26/2017 at 11:02.

Target 3.5 esignature user ID: src3

Audit/management approval: \_\_\_\_\_

3

Original Data File



**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 23:25  
**REVIEWED BY:**  
**D/T REVIEWED:** ~4

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705254317052543

**# 13**                      **CLIENT SAMPLE NUMBER: TP-S002**

**LCS/MB BATCH:** 170523L12                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.00 g  
**MS/MSD BATCH:** 170523S12                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	1280	1.00	640	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052543.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052543.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 23:25  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-13  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 43  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.750	4.740	0.010	4306249245	67.9383	67.9
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				14730674936	1276.81	1280
9 Aroclor 1260 (1)	9.084	9.057	0.027	1690307165	489.944	490
10 Aroclor 1260 (2)	9.592	9.570	0.022	3206328219	1252.36	1250
11 Aroclor 1260 (3)	9.923	9.908	0.015	3027714303	1056.32	1060 (M)
12 Aroclor 1260 (4)	11.088	11.081	0.007	2354929708	2906.03	2910 (A)
13 Aroclor 1260 (5)	11.268	11.264	0.004	4451395540	2405.94	2400 (A)
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052543.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
===== 22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				Compound Not Detected.		
39 Aroclor 1254 (1)				Compound Not Detected.		
40 Aroclor 1254 (2)				Compound Not Detected.		
41 Aroclor 1254 (3)				Compound Not Detected.		
42 Aroclor 1254 (4)				Compound Not Detected.		
43 Aroclor 1254 (5)				Compound Not Detected.		
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.926	11.920	0.006	6349673859	101.696	102

### QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Data File: /chem1/SV04/DC\_58.i/170525.b/b17052543.d

Date: 25-MAY-2017 23:25

Client ID:

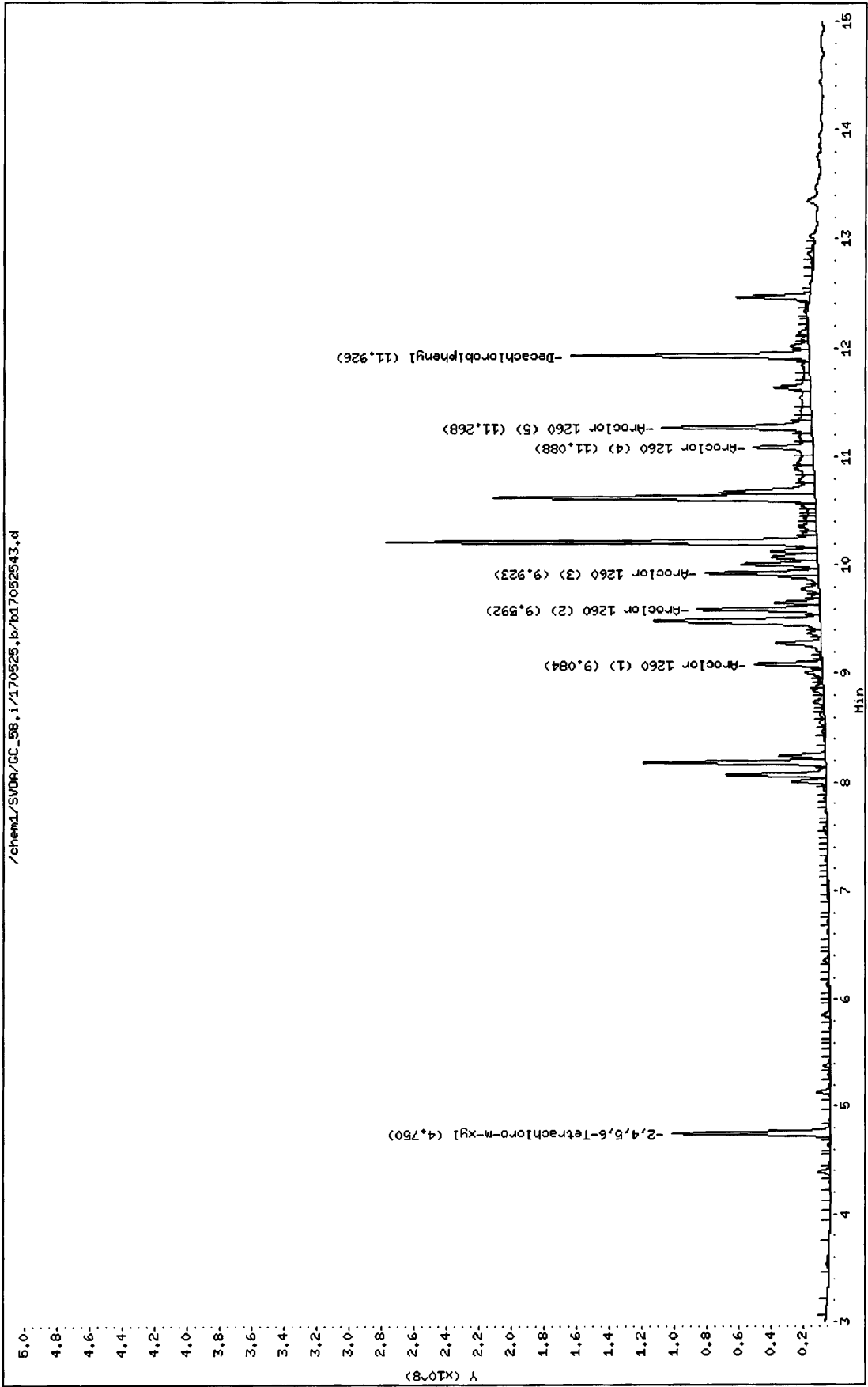
Sample Info: 17-05-1776-13

Instrument: GC\_58.i

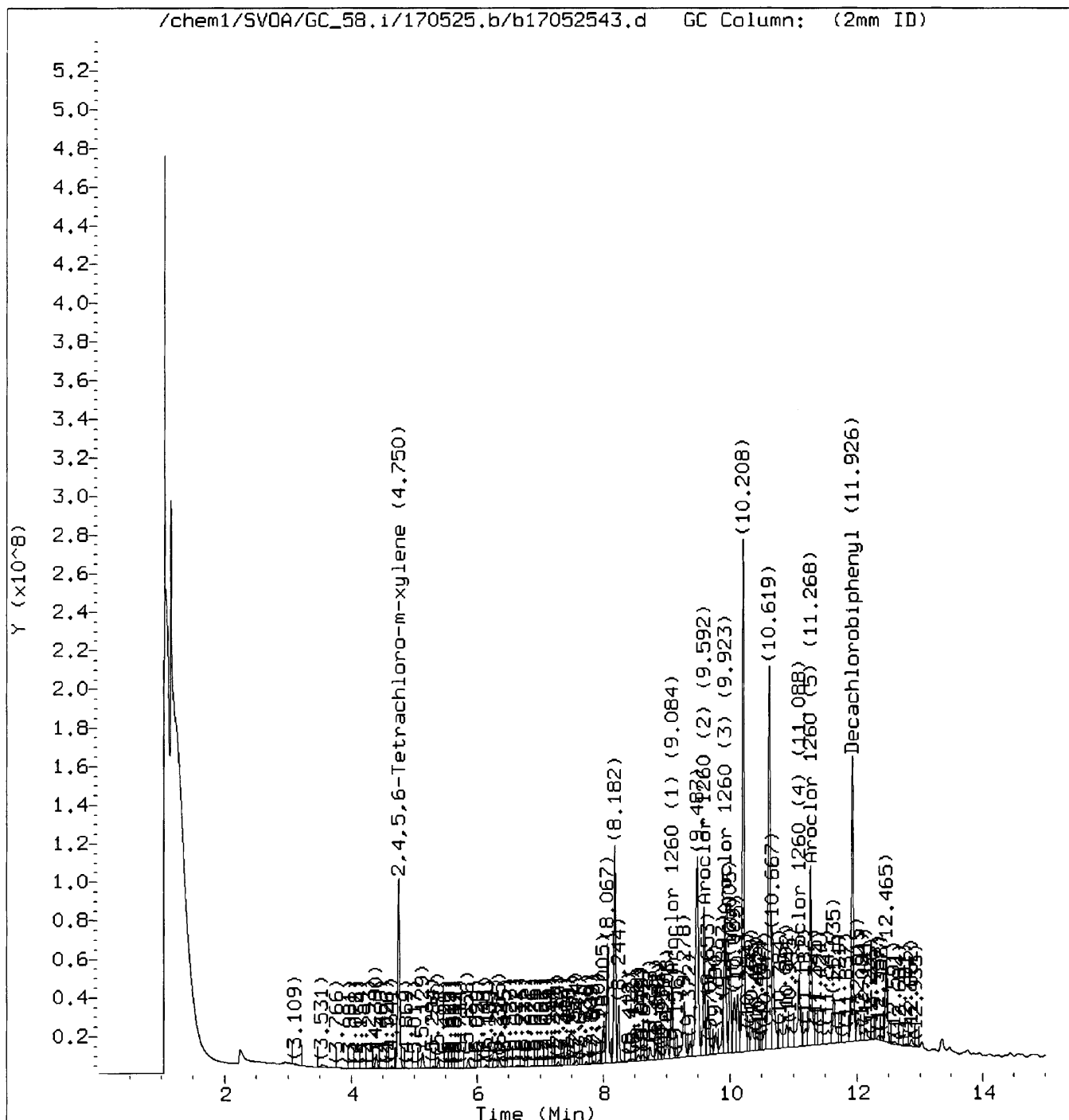
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

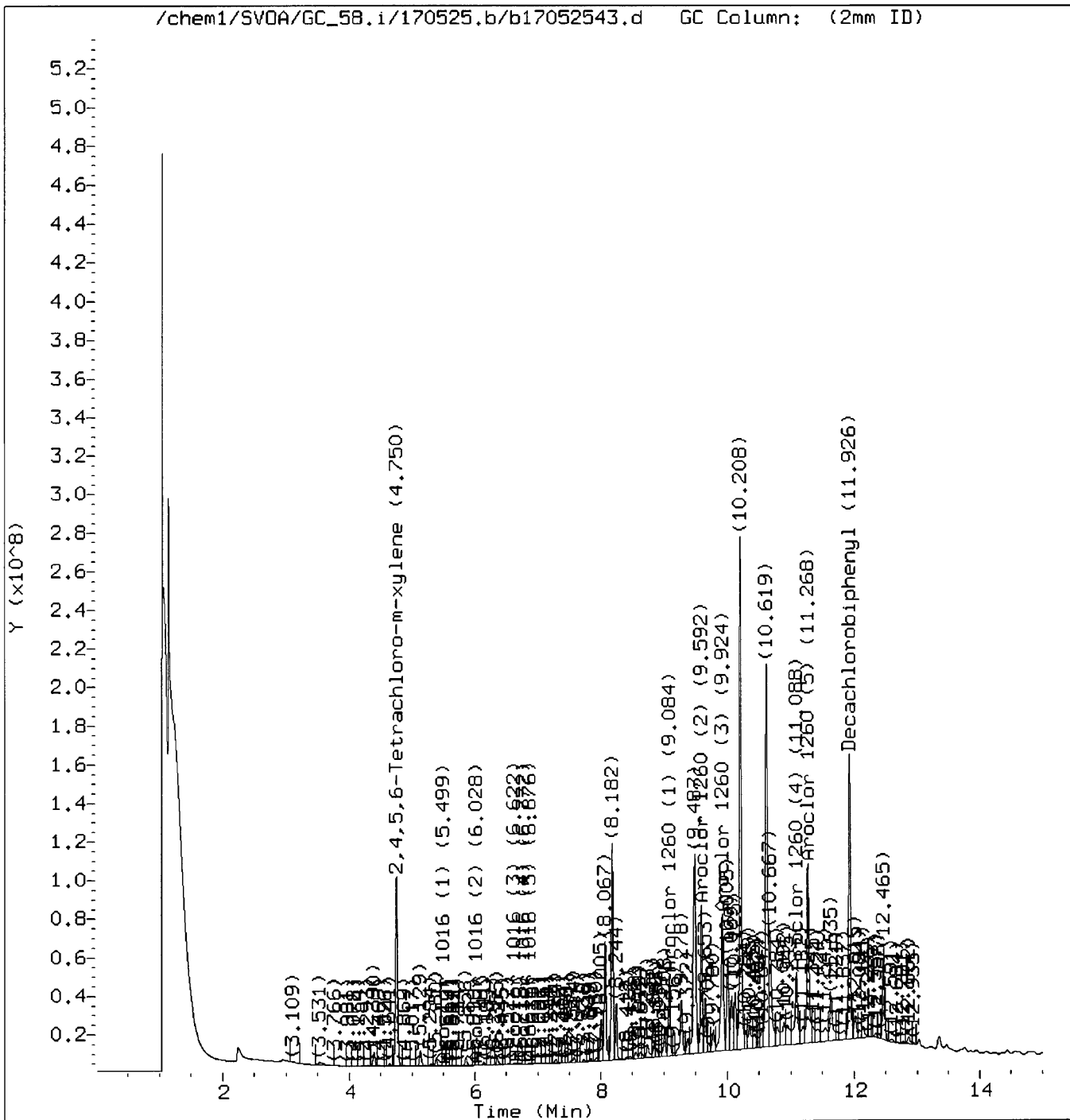
Analyst responsible for change: Digitally signed by Karen Lee  
 on 05/26/2017 at 11:02.  
 Target 3.5 esignature user ID: src3

Audit/management approval: \_\_\_\_\_





Original Data File



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 23:43  
**REVIEWED BY:**  
**D/T REVIEWED:** *m*

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705254417052544

**# 14**                      **CLIENT SAMPLE NUMBER: TP-S003**

<b>LCS/MB BATCH:</b> 170523L12	<b>SAMPLE VOLUME / WEIGHT:</b> DEFAULT: 20.00 g / ACTUAL: 20.20 g
<b>MS/MSD BATCH:</b> 170523S12	<b>FINAL VOLUME / WEIGHT:</b> DEFAULT: 10.00 ml / ACTUAL: 10.00 ml
<b>UNITS:</b> ug/kg	<b>ADJUSTMENT RATIO TO PF:</b> 0.99

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	187	1.00	92.6	50	
Aroclor-1260	574	1.00	284	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052544.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052544.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 23:43  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-14  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 44  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.748	4.740	0.008	3798693732	59.9307	59.9
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260				6625828382	574.309	574
9 Aroclor 1260 (1)	9.070	9.057	0.013	949429948	275.197	275
10 Aroclor 1260 (2)	9.580	9.570	0.010	1457911435	569.447	569
11 Aroclor 1260 (3)	9.914	9.908	0.006	1326333447	462.734	463 (M)
12 Aroclor 1260 (4)	11.084	11.081	0.003	956911076	1180.85	1180
13 Aroclor 1260 (5)	11.264	11.264	0.000	1935242476	1045.98	1040
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052544.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
===== 22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				2440379267	187.341	187
39 Aroclor 1254 (1)	7.839	7.824	0.015	68101273	30.7465	30.7 (a)
40 Aroclor 1254 (2)	8.146	8.120	0.026	108427494	93.5803	93.6 (aM)
41 Aroclor 1254 (3)	8.604	8.590	0.014	425551122	110.677	111
42 Aroclor 1254 (4)	8.867	8.859	0.008	585897810	213.995	214
43 Aroclor 1254 (5)	9.265	9.262	0.003	1252401568	407.963	408
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.923	11.920	0.003	5081355672	81.3825	81.4

### QC Flag Legend

- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: /chem1/SV00A/GC\_58.i/170525.b/b17052544.d

Date : 25-MAY-2017 23:43

Client ID:

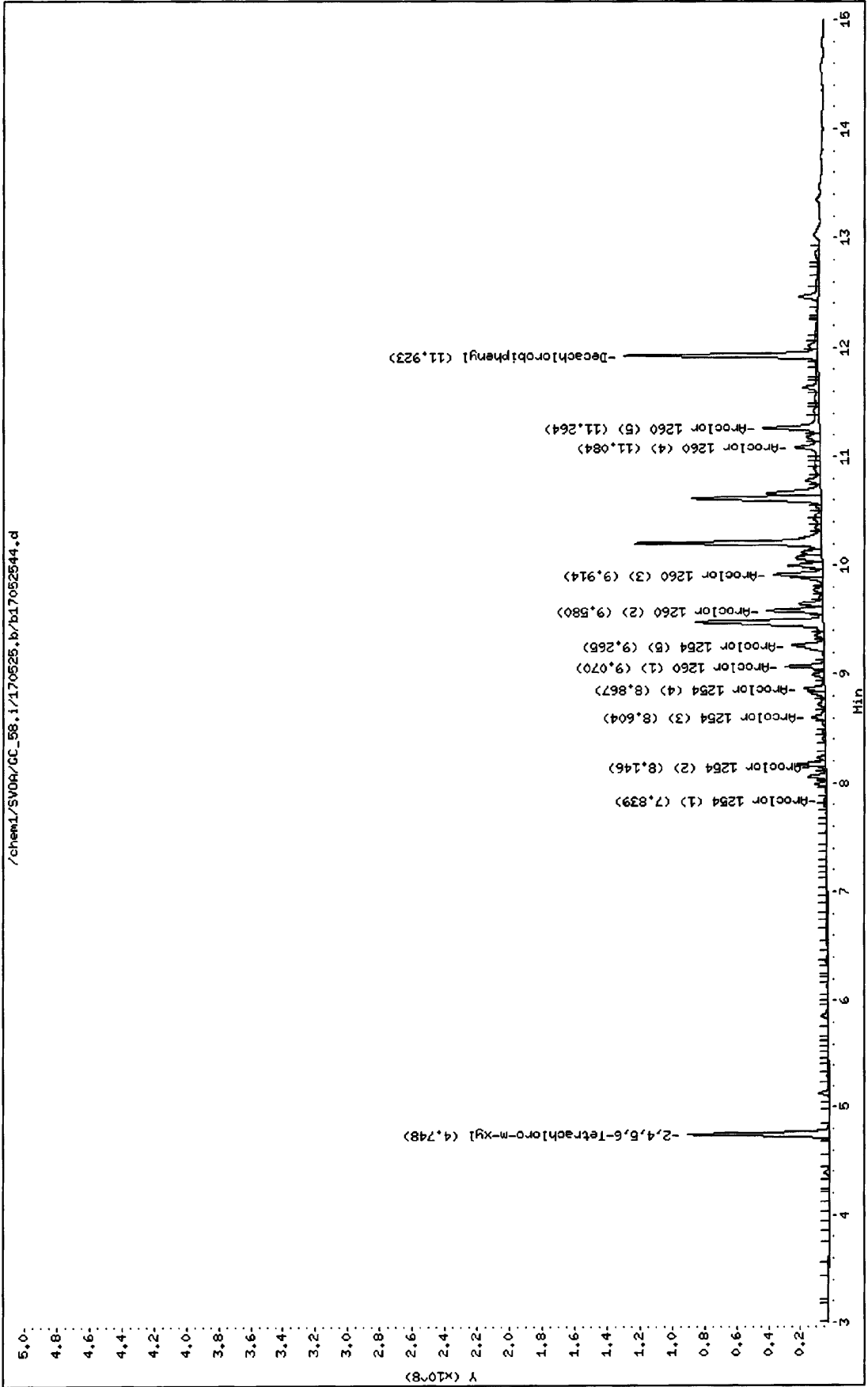
Sample Info: 17-05-1776-14

Instrument: GC\_58.i

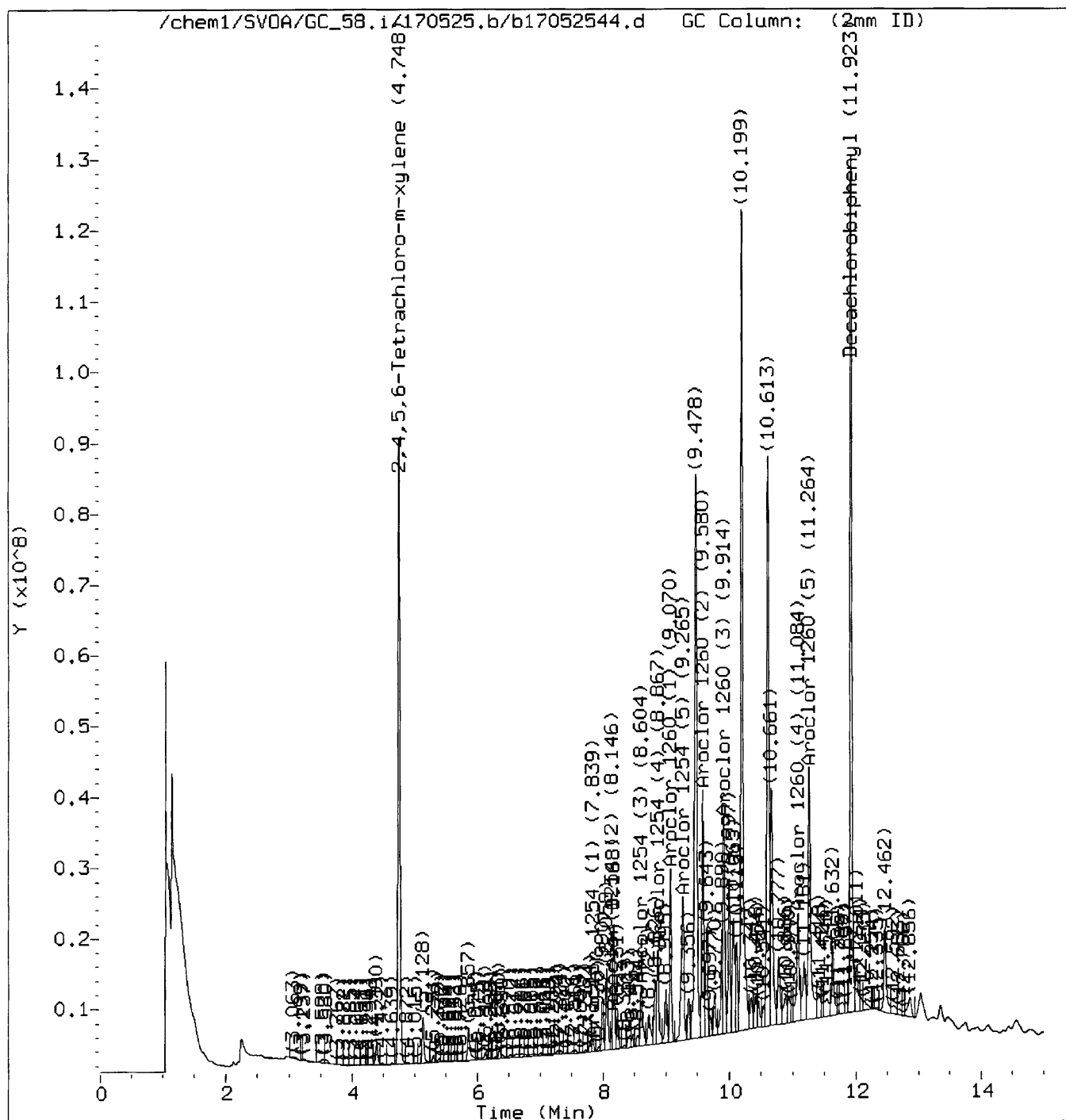
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee

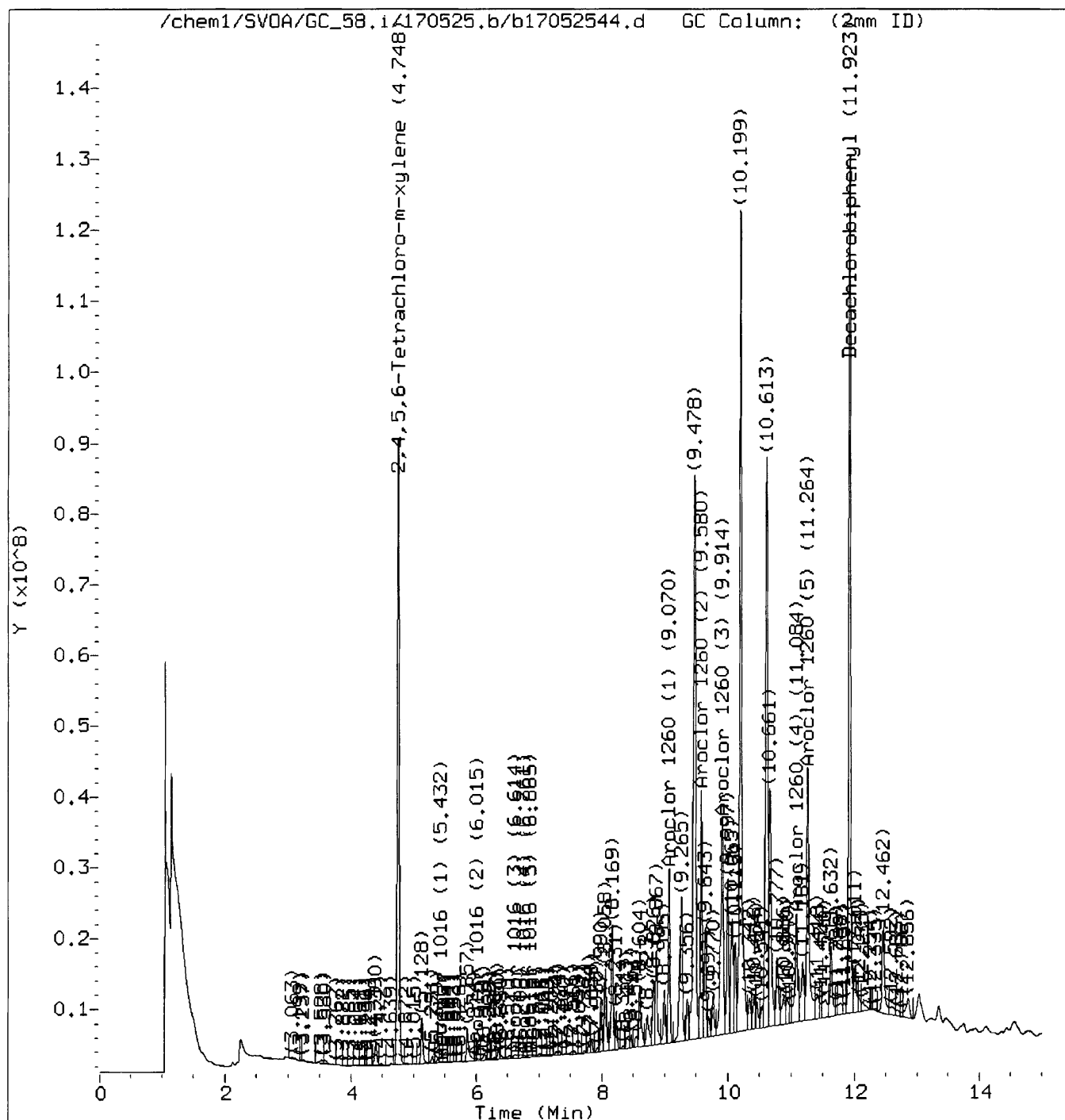
Analyst responsible for change: on 05/26/2017 at 11:02.

Target 3.5 esignature user ID: src3

3

Audit/management approval: \_\_\_\_\_

Original Data File



RAW DATA SHEET  
FOR METHOD: EPA 8082

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-26 00:01  
**REVIEWED BY:**  
**D/T REVIEWED:** *u*

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705254517052545

**# 15**      **CLIENT SAMPLE NUMBER:** TP-S004

**LCS/MB BATCH:** 170523L12      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.10 g  
**MS/MSD BATCH:** 170523S12      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	85.0	1.00	ND	50	
Aroclor-1260	326	1.00	162	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052545.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052545.d  
 Lab Smp Id:  
 Inj Date : 26-MAY-2017 00:01  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-15  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 45  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.745	4.740	0.005	4093362148	64.5796	64.6
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260				3760509036	325.951	326
9 Aroclor 1260 (1)	9.058	9.057	0.001	695021661	201.456	201
10 Aroclor 1260 (2)	9.571	9.570	0.001	654270651	255.552	256 (M)
11 Aroclor 1260 (3)	9.876	9.908	-0.032	1564317858	545.763	546
12 Aroclor 1260 (4)	11.077	11.081	-0.004	278934457	344.210	344
13 Aroclor 1260 (5)	11.258	11.264	-0.006	567964409	306.979	307
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052545.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				1107727919	85.0373	85.0 (a)
39 Aroclor 1254 (1)	7.828	7.824	0.004	68331827	30.8506	30.8 (a)
40 Aroclor 1254 (2)	8.125	8.120	0.005	35552654	30.6844	30.7 (aM)
41 Aroclor 1254 (3)	8.594	8.590	0.004	174829629	45.4694	45.5 (a)
42 Aroclor 1254 (4)	8.855	8.859	-0.004	296868100	108.429	108
43 Aroclor 1254 (5)	9.257	9.262	-0.005	532145709	173.344	173
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.919	11.920	-0.001	5015782058	80.3323	80.3

### QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: /chem1/SV0A/GC\_58.i/170525.b/b17052545.d

Date : 26-May-2017 00:01

Client ID:

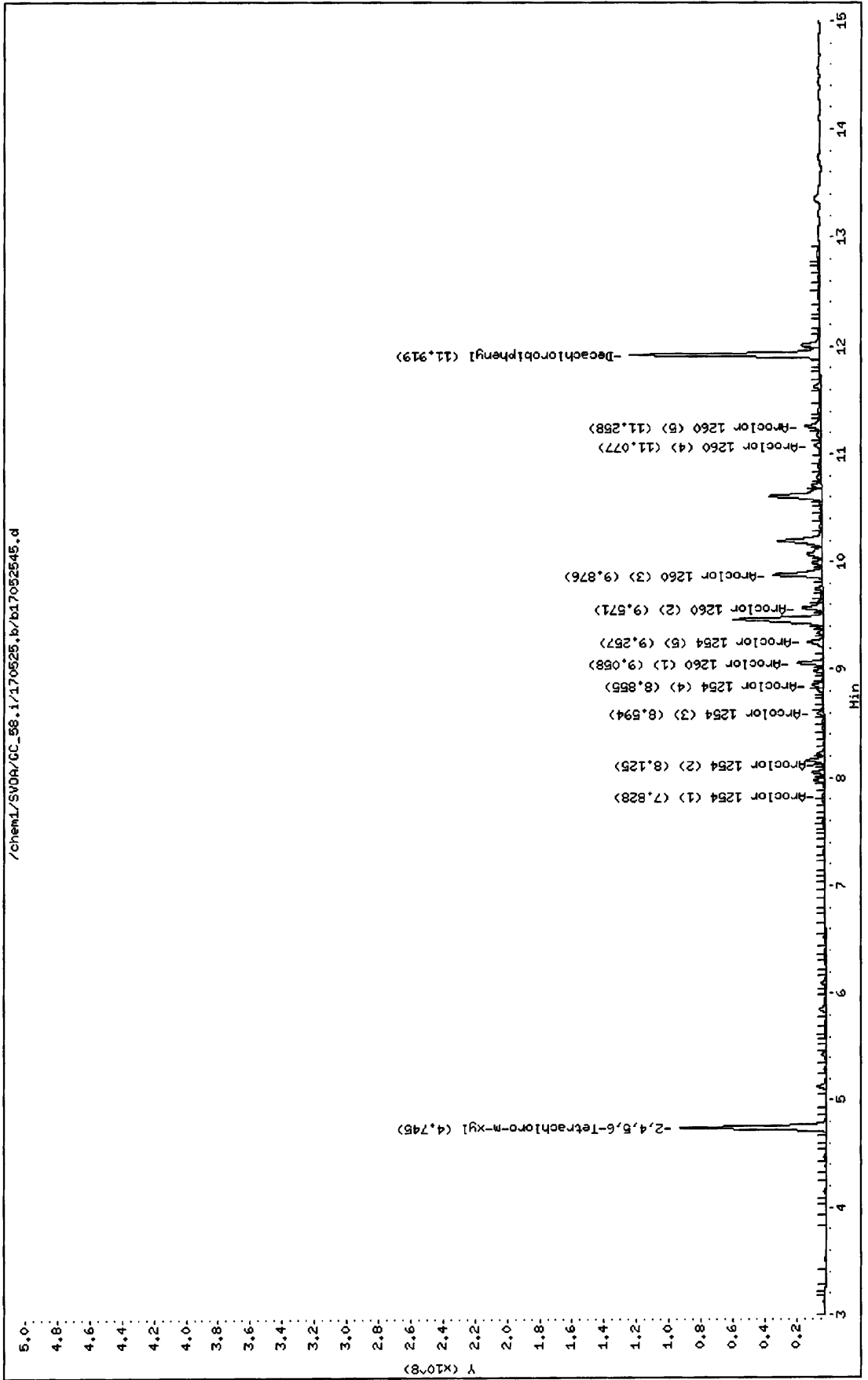
Sample Info: 17-05-1776-15

Instrument: GC\_58.i

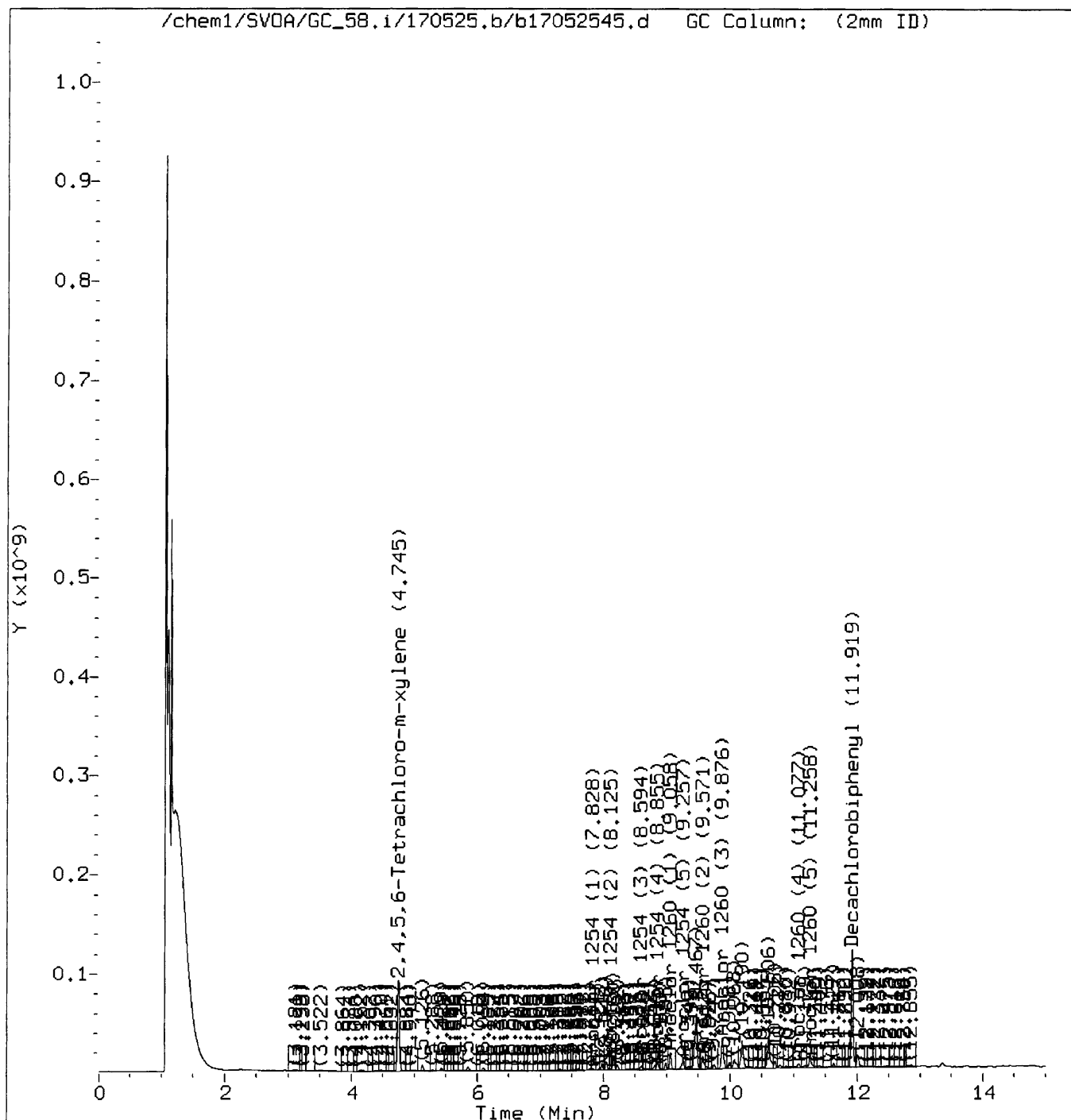
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee

Analyst responsible for change: on 05/26/2017 at 11:02.

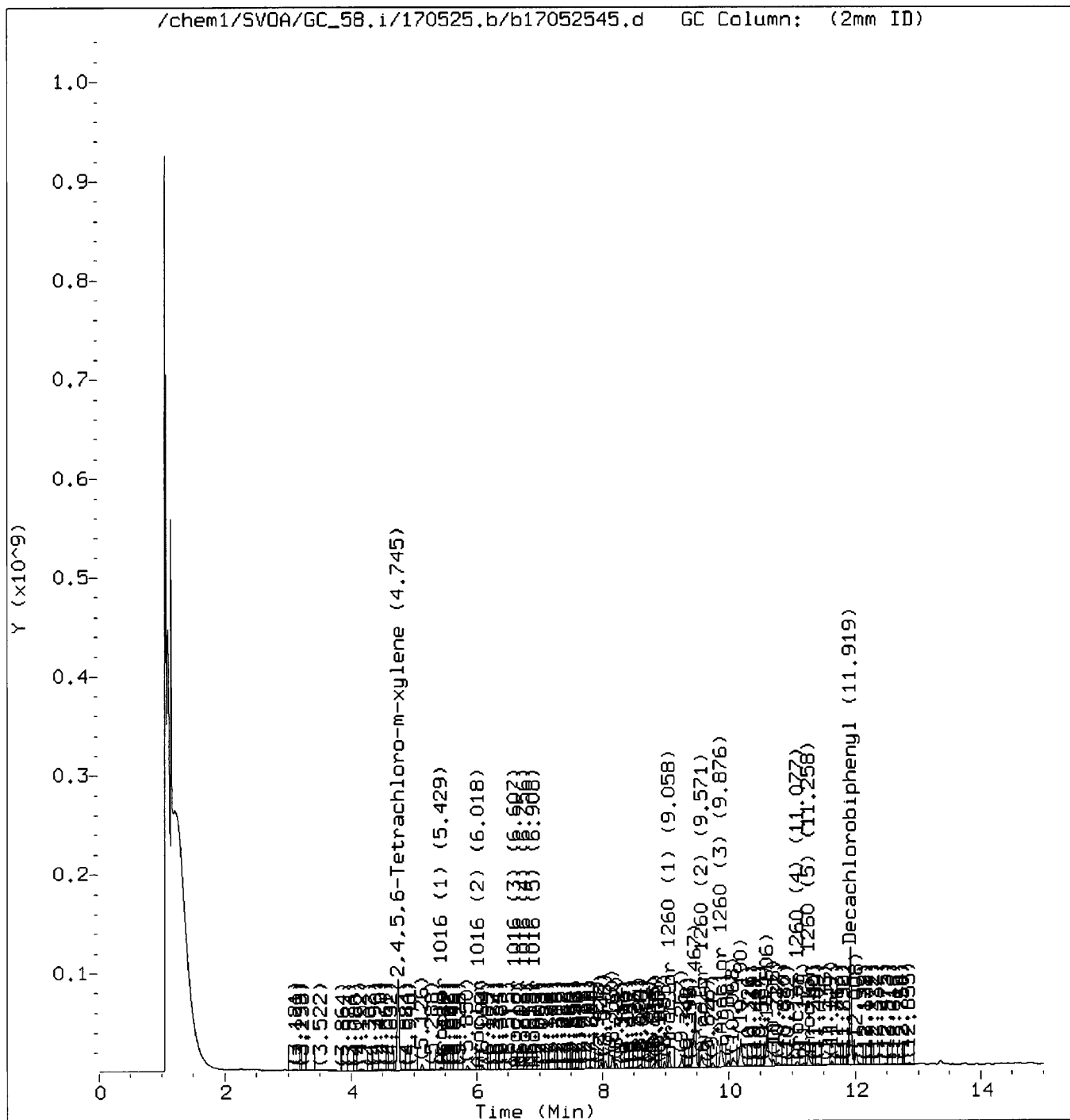
Target 3.5 esignature user ID: src3

Audit/management approval: \_\_\_\_\_

*M*



Original Data File



**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-26 00:19  
**REVIEWED BY:**  
**D/T REVIEWED:** 24

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705254617052546

**# 16**                      **CLIENT SAMPLE NUMBER: TP-S005**

**LCS/MB BATCH:** 170523L12                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.00 g  
**MS/MSD BATCH:** 170523S12                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	733	1.00	366	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

↑  
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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052546.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052546.d  
 Lab Smp Id:  
 Inj Date : 26-MAY-2017 00:19  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-16  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 46  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.744	4.740	0.004	5011243405	79.0607	79.1
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260				8452598460	732.648	733
9 Aroclor 1260 (1)	9.058	9.057	0.001	482435215	139.836	140
10 Aroclor 1260 (2)	9.569	9.570	-0.001	2428743198	948.645	949
11 Aroclor 1260 (3)	9.904	9.908	-0.004	1217266930	424.683	425
12 Aroclor 1260 (4)	11.076	11.081	-0.005	1384852902	1708.93	1710
13 Aroclor 1260 (5)	11.256	11.264	-0.008	2939300215	1588.66	1590
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052546.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
=====	==	=====	=====	=====	=====	=====
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				Compound Not Detected.		
39 Aroclor 1254 (1)				Compound Not Detected.		
40 Aroclor 1254 (2)				Compound Not Detected.		
41 Aroclor 1254 (3)				Compound Not Detected.		
42 Aroclor 1254 (4)				Compound Not Detected.		
43 Aroclor 1254 (5)				Compound Not Detected.		
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.916	11.920	-0.004	6136661803	98.2842	98.3



Data File: /chem1/SVDR/GC\_58.i/170525.b/b17052546.d

Date : 26-MAY-2017 00:19

Client ID:

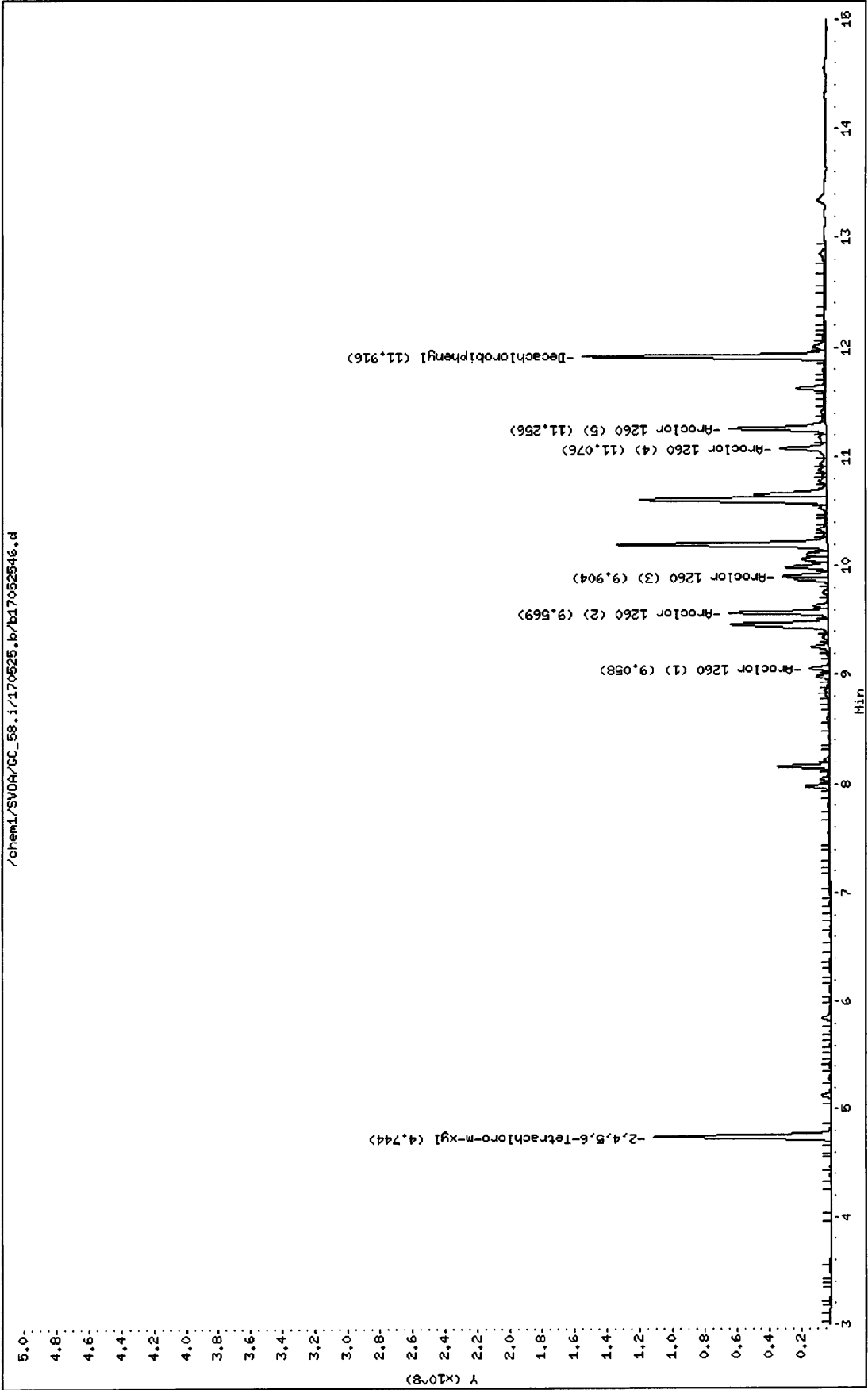
Sample Info: 17-05-1776-16

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-26 00:37  
**REVIEWED BY:**  
**D/T REVIEWED:** *M*

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705254717052547

**# 17**                      **CLIENT SAMPLE NUMBER: TP-S006**

**LCS/MB BATCH:** 170523L12                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.10 g  
**MS/MSD BATCH:** 170523S12                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	108	1.00	53.7	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052547.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052547.d  
 Lab Smp Id:  
 Inj Date : 26-MAY-2017 00:37  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-17  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 47  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.743	4.740	0.003	3484749800	54.9778	55.0
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260				1241870554	107.642	108
9 Aroclor 1260 (1)	9.060	9.057	0.003	472704773	137.016	137
10 Aroclor 1260 (2)	9.569	9.570	-0.001	207045215	80.8700	80.9 (a)
11 Aroclor 1260 (3)	9.905	9.908	-0.003	76735018	26.7715	26.8 (a)
12 Aroclor 1260 (4)	11.077	11.081	-0.004	186279642	229.872	230
13 Aroclor 1260 (5)	11.258	11.264	-0.006	299105906	161.664	162
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052547.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				Compound Not Detected.		
39 Aroclor 1254 (1)				Compound Not Detected.		
40 Aroclor 1254 (2)				Compound Not Detected.		
41 Aroclor 1254 (3)				Compound Not Detected.		
42 Aroclor 1254 (4)				Compound Not Detected.		
43 Aroclor 1254 (5)				Compound Not Detected.		
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.917	11.920	-0.003	4923809186	78.8593	78.8

### QC Flag Legend

a - Target compound detected but, quantitated amount  
 Below Limit Of Quantitation(BLOQ).

Data File: /chem1/SV00A/GC\_58.i/170525.b/b17052547.d

Date : 26-MAY-2017 00:37

Client ID:

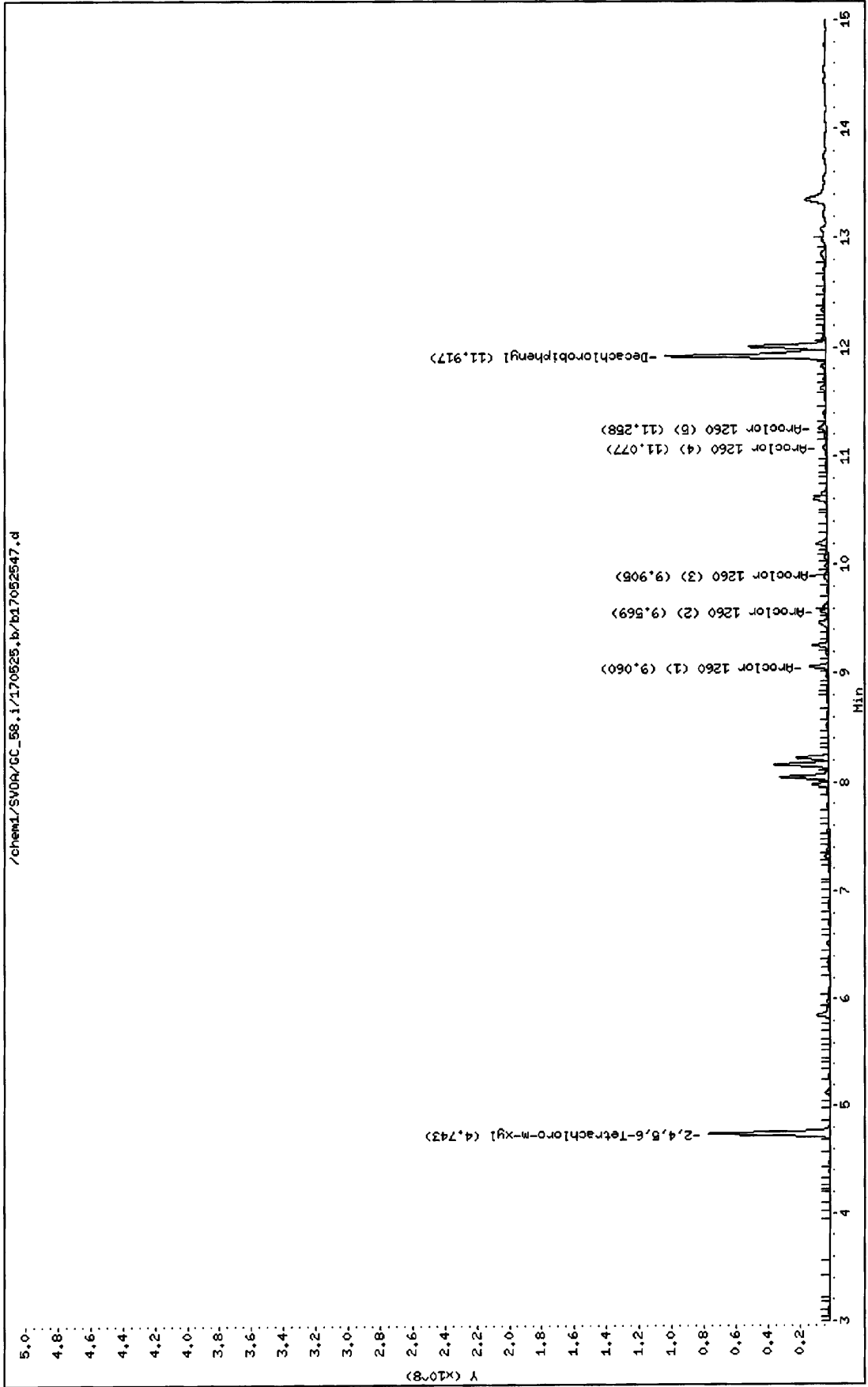
Sample Info: 17-05-1776-17

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-26 00:55  
**REVIEWED BY:**  
**D/T REVIEWED:** *u*

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705254817052548

**# 18**                      **CLIENT SAMPLE NUMBER: TP-S007**

**LCS/MB BATCH:** 170523L12                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.00 g  
**MS/MSD BATCH:** 170523S12                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	340	1.00	170	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052548.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052548.d  
 Lab Smp Id:  
 Inj Date : 26-MAY-2017 00:55  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-18  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 48  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.747	4.740	0.007	3476154843	54.8422	54.8
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260				3922794164	340.017	340
9 Aroclor 1260 (1)	9.059	9.057	0.002	1627279222	471.675	472
10 Aroclor 1260 (2)	9.576	9.570	0.006	830297809	324.307	324
11 Aroclor 1260 (3)	9.903	9.908	-0.005	588915606	205.462	205 (M)
12 Aroclor 1260 (4)	11.080	11.081	-0.001	259116588	319.755	320
13 Aroclor 1260 (5)	11.261	11.264	-0.003	617184939	333.582	334
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052548.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
=====	==	=====	=====	=====	=====	=====
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				Compound Not Detected.		
39 Aroclor 1254 (1)				Compound Not Detected.		
40 Aroclor 1254 (2)				Compound Not Detected.		
41 Aroclor 1254 (3)				Compound Not Detected.		
42 Aroclor 1254 (4)				Compound Not Detected.		
43 Aroclor 1254 (5)				Compound Not Detected.		
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.924	11.920	0.004	4183008813	66.9947	67.0

QC Flag Legend

M - Compound response manually integrated.



Data File: /chem1/SVOR/GC\_58.i/170525.b/b17052548.d

Date: 26-MAY-2017 00:55

Client ID:

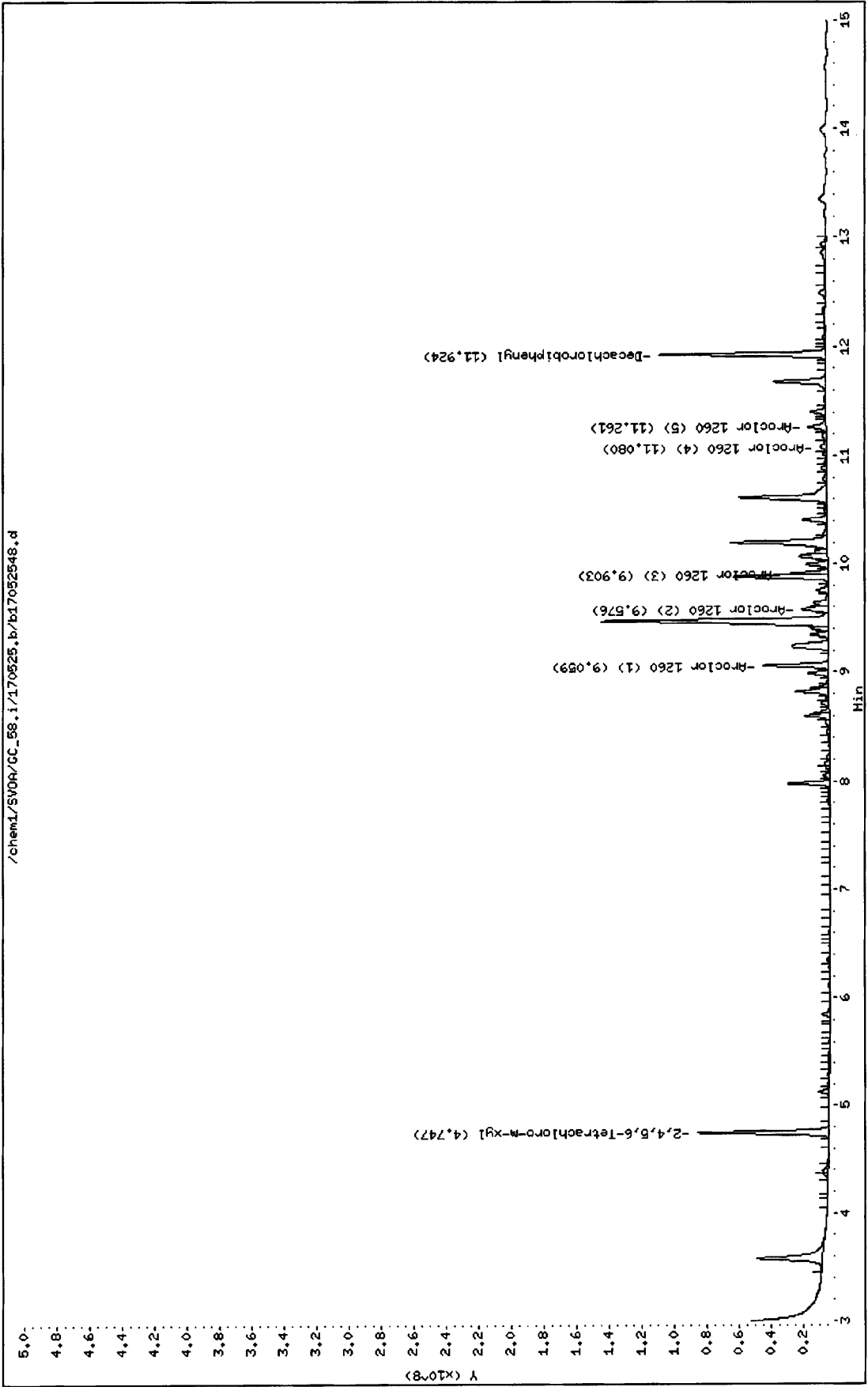
Sample Info: 17-05-1776-18

Instrument: GC\_58.i

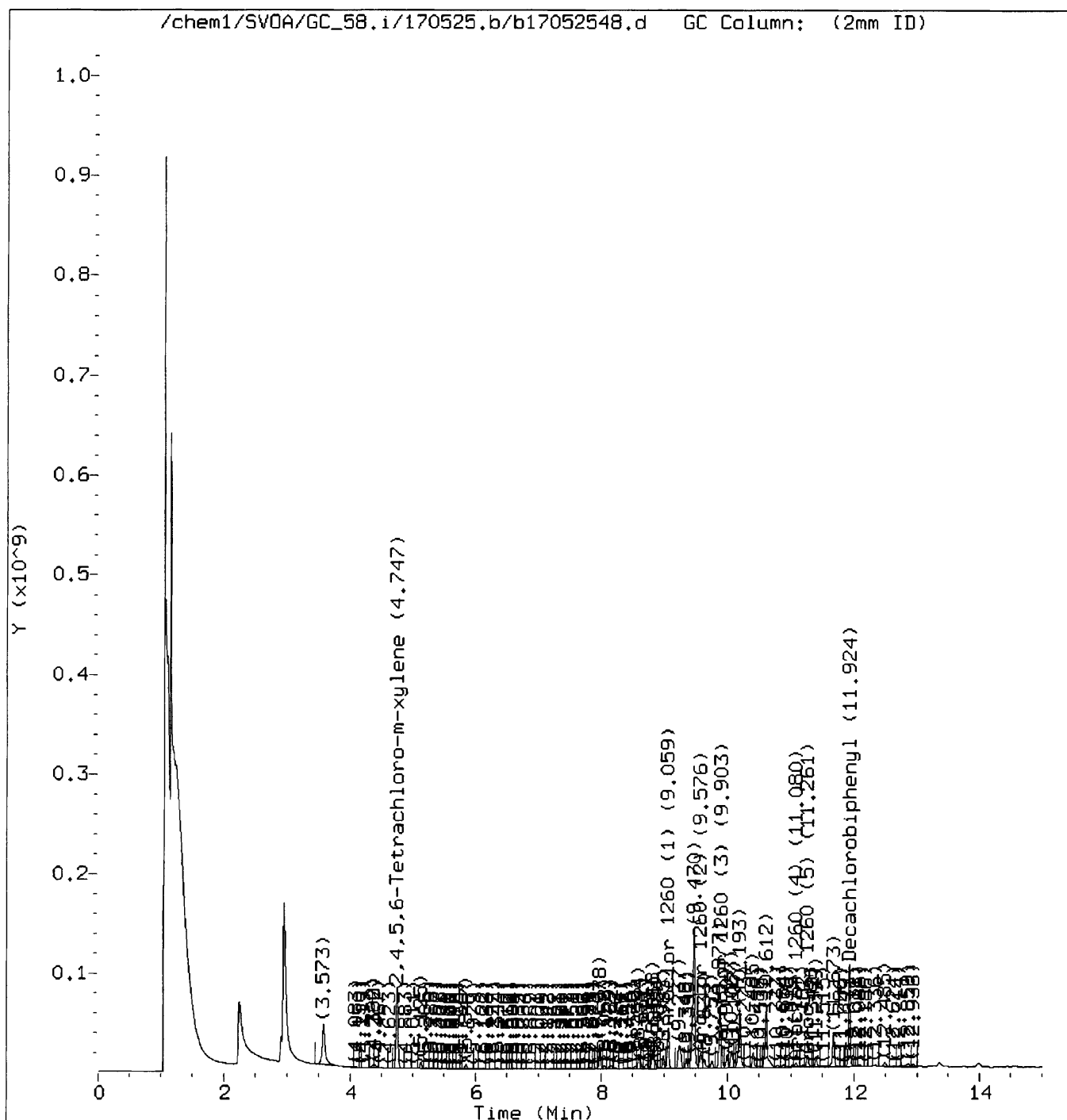
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File



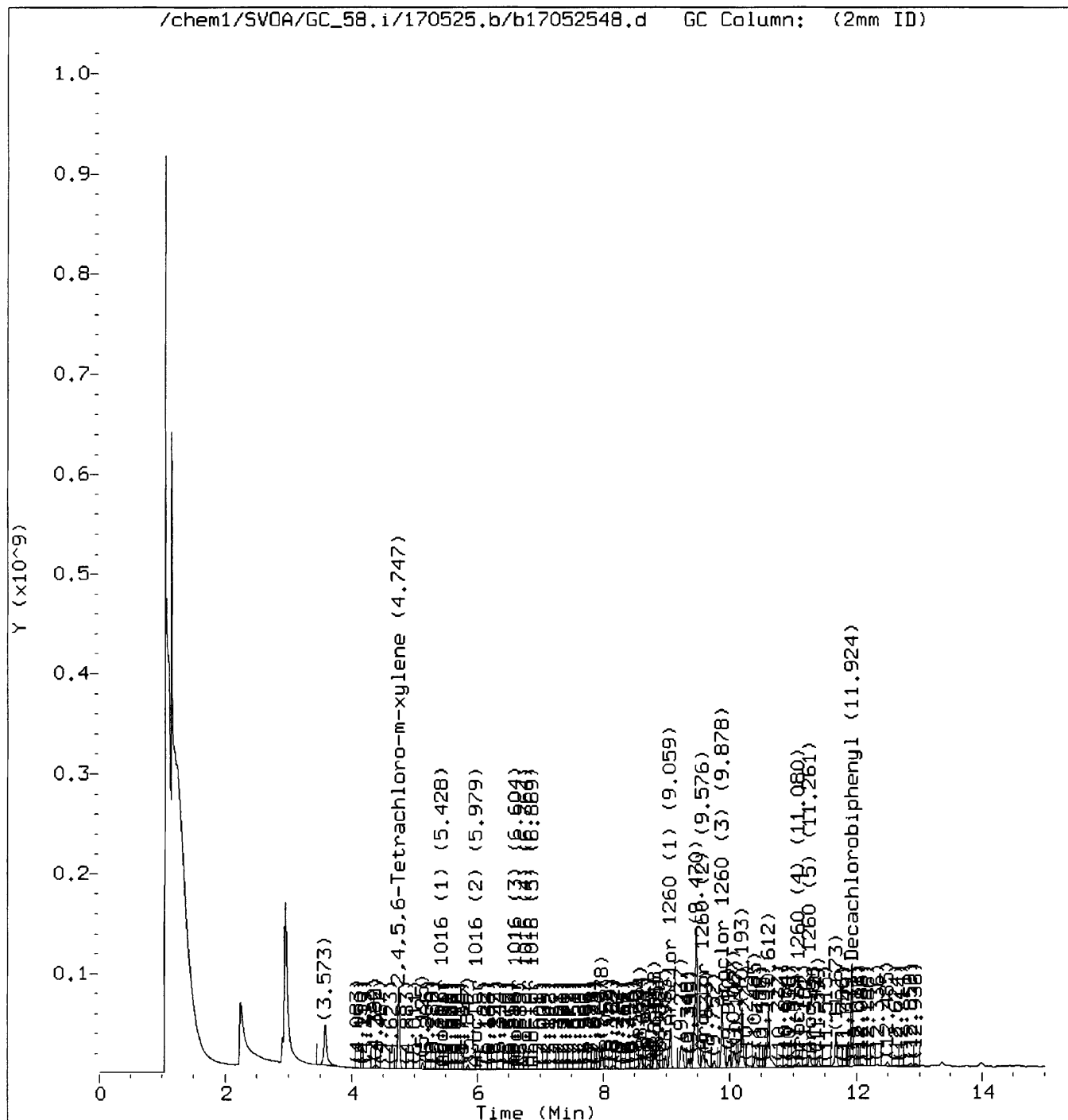
Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee  
 Analyst responsible for change: on 05/26/2017 at 11:02.  
 Target 3.5 esignature user ID: src3

Audit/management approval: \_\_\_\_\_ *ML*



Original Data File



**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-26 01:13  
**REVIEWED BY:**  
**D/T REVIEWED:** *m*

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705254917052549

**# 19**                      **CLIENT SAMPLE NUMBER: TP-S008**

<b>LCS/MB BATCH:</b> 170523L12	<b>SAMPLE VOLUME / WEIGHT:</b> DEFAULT: 20.00 g / ACTUAL: 20.00 g
<b>MS/MSD BATCH:</b> 170523S12	<b>FINAL VOLUME / WEIGHT:</b> DEFAULT: 10.00 ml / ACTUAL: 10.00 ml
<b>UNITS:</b> ug/kg	<b>ADJUSTMENT RATIO TO PF:</b> 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	41.0	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052549.d  
 Report Date: 26-May-2017 11:01

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EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052549.d  
 Lab Smp Id:  
 Inj Date : 26-MAY-2017 01:13  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-19  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 49  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.744	4.740	0.004	4799137517	75.7144	75.7
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				472543738	40.9588	41.0(a)
9 Aroclor 1260 (1)	9.057	9.057	0.000	47378456	13.7329	13.7(a)
10 Aroclor 1260 (2)	9.570	9.570	0.000	42050217	16.4244	16.4(a)
11 Aroclor 1260 (3)	9.875	9.908	-0.033	126256746	44.0487	44.0(a)
12 Aroclor 1260 (4)	11.086	11.081	0.005	106529675	131.460	131
13 Aroclor 1260 (5)	11.255	11.264	-0.009	150328644	81.2512	81.2(a)
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052549.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				Compound Not Detected.		
39 Aroclor 1254 (1)				Compound Not Detected.		
40 Aroclor 1254 (2)				Compound Not Detected.		
41 Aroclor 1254 (3)				Compound Not Detected.		
42 Aroclor 1254 (4)				Compound Not Detected.		
43 Aroclor 1254 (5)				Compound Not Detected.		
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.917	11.920	-0.003	5346822593	85.6342	85.6

### QC Flag Legend

a - Target compound detected but, quantitated amount  
 Below Limit Of Quantitation(BLOQ).

Data File: /chem1/SV04/CC\_58.i/170525.b/17052549.d

Date : 26-MAY-2017 01:13

Client ID:

Sample Info: 17-05-1776-19

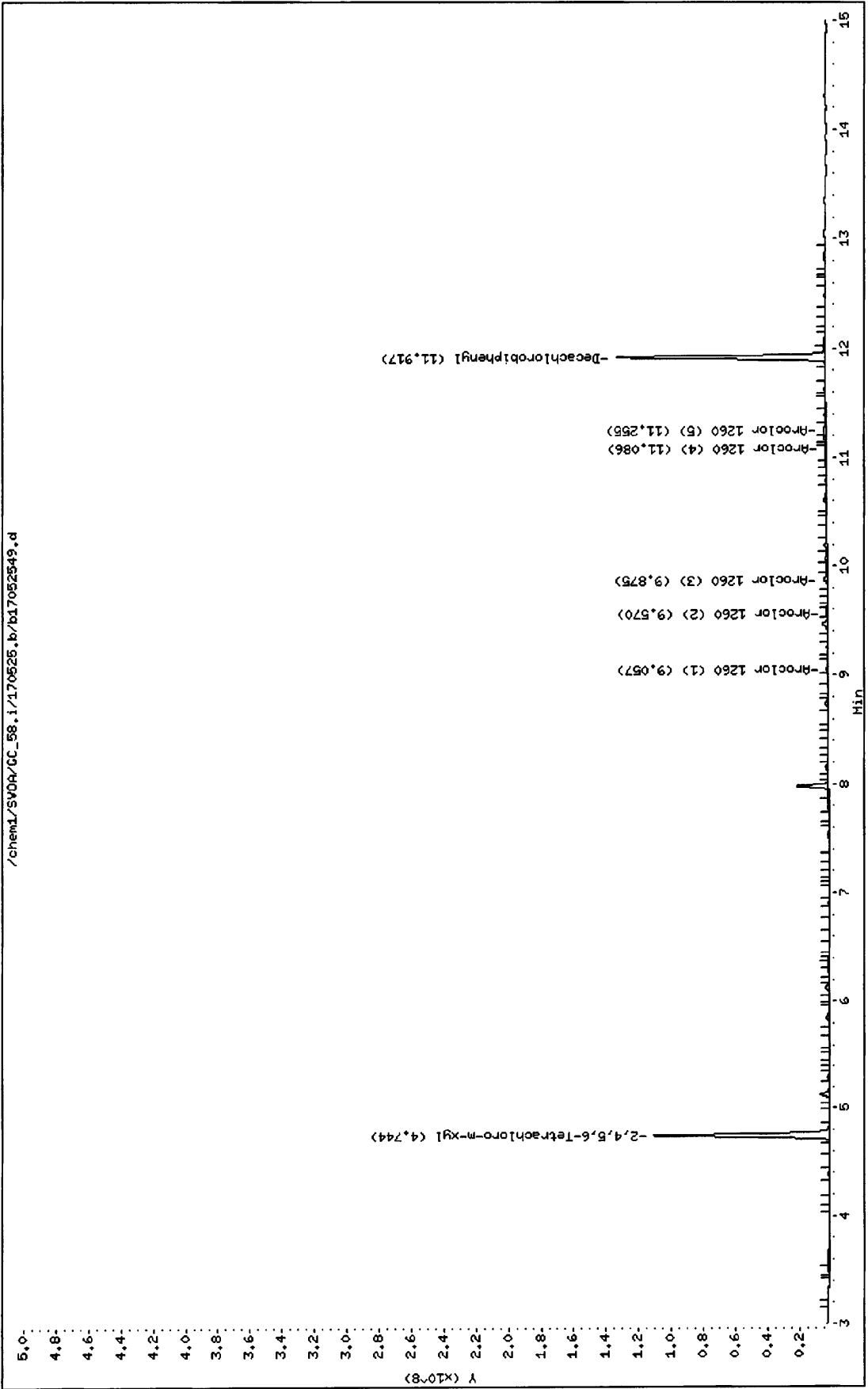
Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:

/chem1/SV04/CC\_58.i/170525.b/17052549.d



# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 58  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-26 01:31  
**REVIEWED BY:**  
**D/T REVIEWED:** *m*

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705255017052550

**# 20**                      **CLIENT SAMPLE NUMBER: TP-S009**

**LCS/MB BATCH:** 170523L12                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.10 g  
**MS/MSD BATCH:** 170523S12                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	72.4	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	





Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052550.d  
 Report Date: 26-May-2017 11:01

Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052550.d  
 Lab Smp Id:  
 Inj Date : 26-MAY-2017 01:31  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : 17-05-1776-20  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 50  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.745	4.740	0.005	3412727305	53.8415	53.8
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				834923565	72.3689	72.4 (a)
9 Aroclor 1260 (1)	9.069	9.057	0.012	418501065	121.305	121
10 Aroclor 1260 (2)	9.569	9.570	-0.001	135295510	52.8452	52.8 (a)
11 Aroclor 1260 (3)	9.899	9.908	-0.009	77371775	26.9936	27.0 (aM)
12 Aroclor 1260 (4)	11.079	11.081	-0.002	55377882	68.3373	68.3 (a)
13 Aroclor 1260 (5)	11.256	11.264	-0.008	148377333	80.1965	80.2 (a)
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052550.d  
 Report Date: 26-May-2017 11:01

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Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)						Compound Not Detected.		
23 Aroclor 1232 (3)						Compound Not Detected.		
24 Aroclor 1232 (4)						Compound Not Detected.		
25 Aroclor 1232 (5)						Compound Not Detected.		
M 26 Aroclor-1242						Compound Not Detected.		
27 Aroclor 1242 (1)						Compound Not Detected.		
28 Aroclor 1242 (2)						Compound Not Detected.		
29 Aroclor 1242 (3)						Compound Not Detected.		
30 Aroclor 1242 (4)						Compound Not Detected.		
31 Aroclor 1242 (5)						Compound Not Detected.		
M 32 Aroclor-1248						Compound Not Detected.		
33 Aroclor 1248 (1)						Compound Not Detected.		
34 Aroclor 1248 (2)						Compound Not Detected.		
35 Aroclor 1248 (3)						Compound Not Detected.		
36 Aroclor 1248 (4)						Compound Not Detected.		
37 Aroclor 1248 (5)						Compound Not Detected.		
M 38 Aroclor-1254						Compound Not Detected.		
39 Aroclor 1254 (1)						Compound Not Detected.		
40 Aroclor 1254 (2)						Compound Not Detected.		
41 Aroclor 1254 (3)						Compound Not Detected.		
42 Aroclor 1254 (4)						Compound Not Detected.		
43 Aroclor 1254 (5)						Compound Not Detected.		
M 44 Aroclor-1262						Compound Not Detected.		
45 Aroclor 1262 (1)						Compound Not Detected.		
46 Aroclor 1262 (2)						Compound Not Detected.		
47 Aroclor 1262 (3)						Compound Not Detected.		
48 Aroclor 1262 (4)						Compound Not Detected.		
49 Aroclor 1262 (5)						Compound Not Detected.		
M 50 Aroclor-1268						Compound Not Detected.		
51 Aroclor 1268 (1)						Compound Not Detected.		
52 Aroclor 1268 (2)						Compound Not Detected.		
53 Aroclor 1268 (3)						Compound Not Detected.		
54 Aroclor 1268 (4)						Compound Not Detected.		
55 Aroclor 1268 (5)						Compound Not Detected.		
T 56 Decachlorobiphenyl	11.916	11.920	-0.004	5518182289	88.3787	88.4		

### QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: /chem1/SVDA/GC\_58.i/170525.b/b17052550.d

Date: 26-MAY-2017 01:31

Client ID:

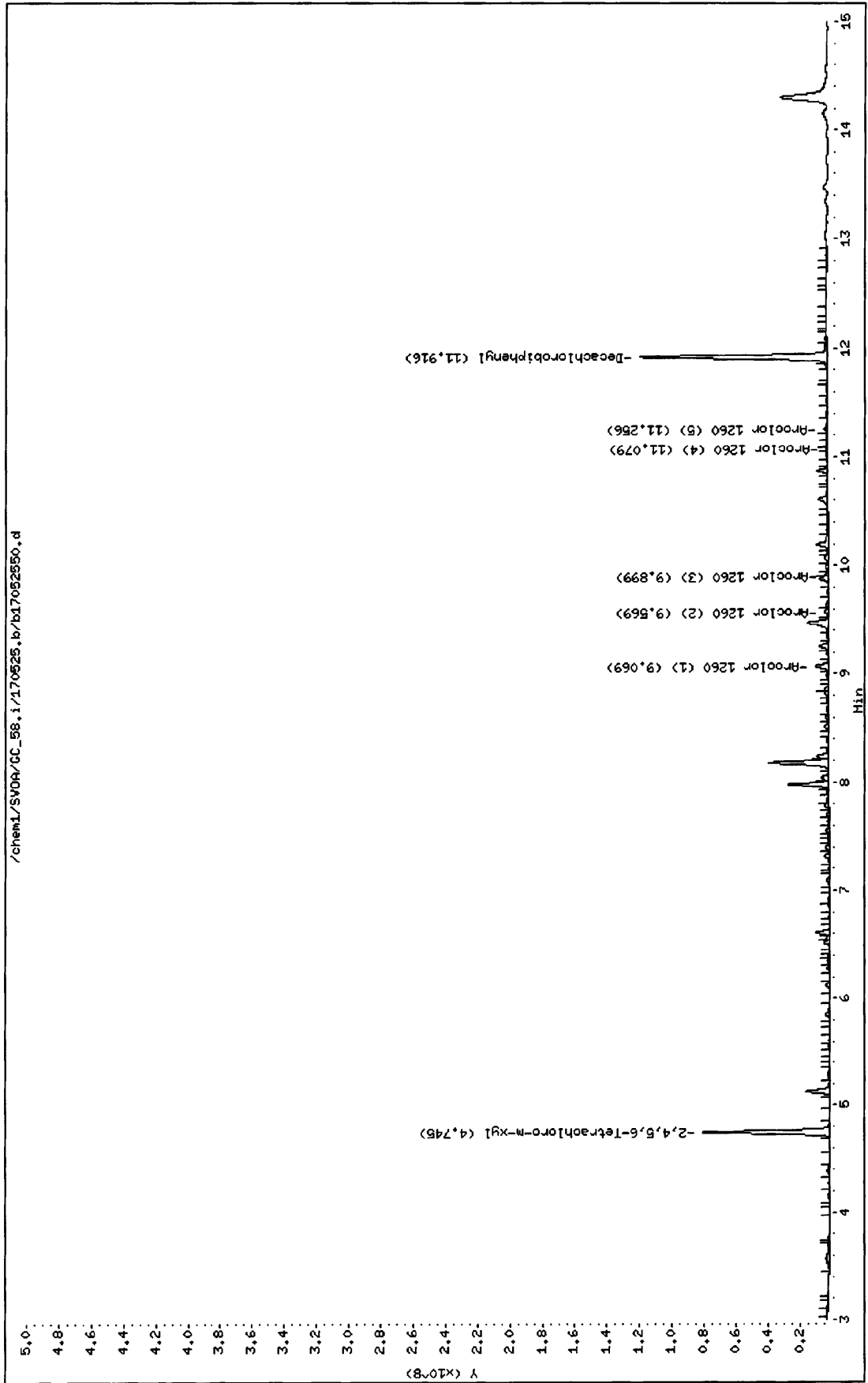
Sample Info: 17-05-1776-20

Instrument: GC\_58.i

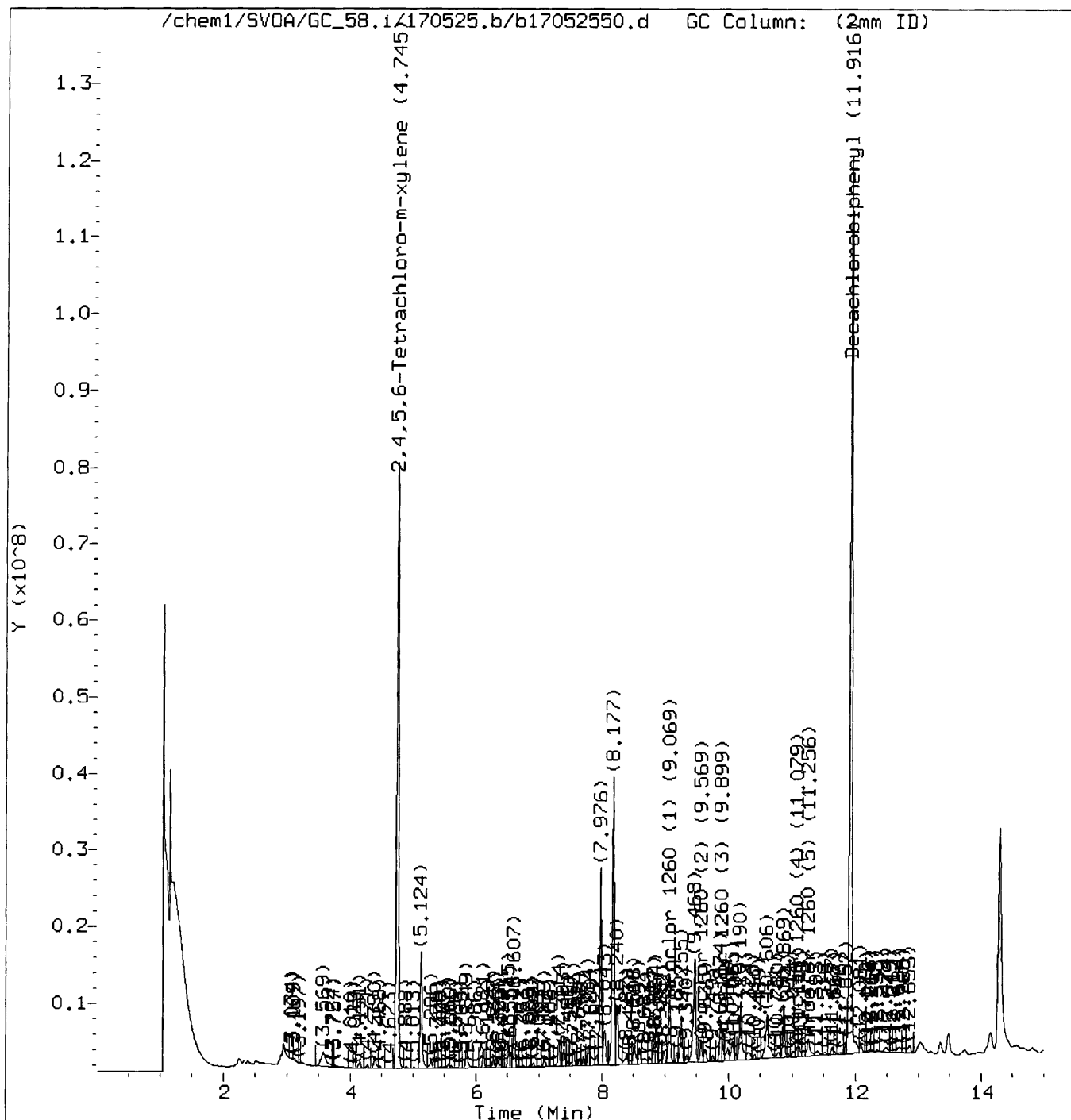
Operator: 944

Column diameter: 2.00

Column phase:



Manually Integrated Data File

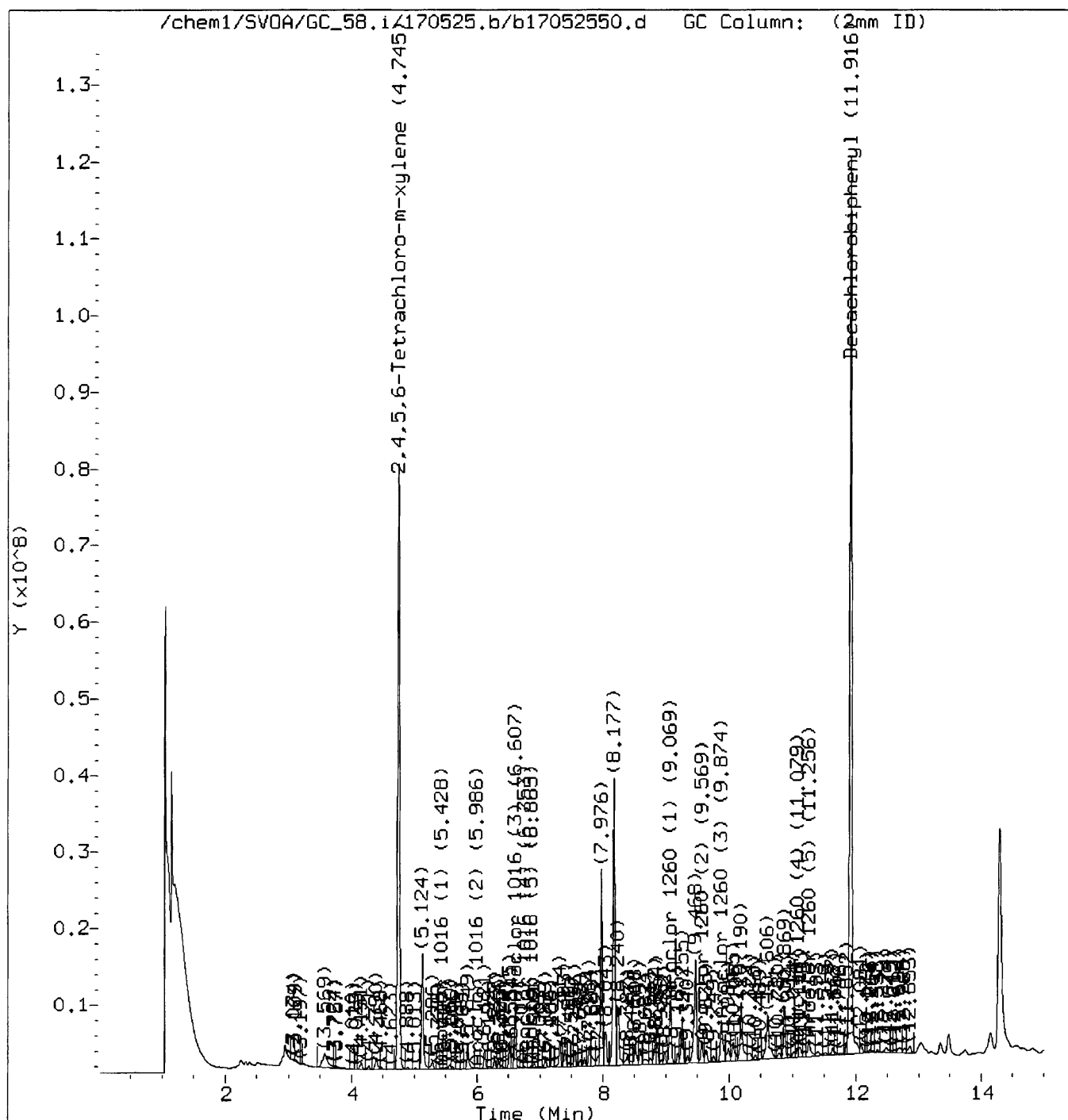


Reason for manual integration: Signal not integrated by automation

Digitally signed by Karen Lee  
 Analyst responsible for change: on 05/26/2017 at 11:02.  
 Target 3.5 esignature user ID: src3


Audit/management approval: \_\_\_\_\_

Original Data File



RAW DATA SHEET  
FOR METHOD: EPA 8082

WORK ORDER: 17-05-1776  
INSTRUMENT: GC 31  
EXTRACTION: EPA 3545  
D/T EXTRACTED: 2017-05-23 00:00

ANALYZED BY: 944  
D/T ANALYZED: 2017-05-25 11:37  
REVIEWED BY:  
D/T REVIEWED: 

DATA FILE: /chem1/SVOA/GC\_31/170525/b1705251017052510

# 21 CLIENT SAMPLE NUMBER: TP-S010

LCS/MB BATCH: 170523L13 SAMPLE VOLUME / WEIGHT: DEFAULT: 20.00 g / ACTUAL: 20.20 g  
MS/MSD BATCH: 170523S13 FINAL VOLUME / WEIGHT: DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
UNITS: ug/kg ADJUSTMENT RATIO TO PF: 0.99

COMMENT:

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	0.000	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

  
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Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052510.d  
 Report Date: 25-May-2017 12:02

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EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170525.b/b17052510.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 11:37  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : 17-05-1776-21  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170525.b/b8082-n2.m  
 Meth Date : 25-May-2017 11:21 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 10  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL ( ug/L)
\$ 1 2,4,5,6-Tetrachloro-m-xylene	4.954	4.953	0.001	10159217747	100.916	101
M 2 Aroclor-1016				Compound Not Detected.		
3 Aroclor 1016 (1)				Compound Not Detected.		
4 Aroclor 1016 (2)				Compound Not Detected.		
5 Aroclor 1016 (3)				Compound Not Detected.		
6 Aroclor 1016 (4)				Compound Not Detected.		
7 Aroclor 1016 (5)				Compound Not Detected.		
M 8 Aroclor-1260				Compound Not Detected.		
9 Aroclor 1260 (1)				Compound Not Detected.		
10 Aroclor 1260 (2)				Compound Not Detected.		
11 Aroclor 1260 (3)				Compound Not Detected.		
12 Aroclor 1260 (4)				Compound Not Detected.		
13 Aroclor 1260 (5)				Compound Not Detected.		
M 14 Aroclor-1221				Compound Not Detected.		
15 Aroclor 1221 (1)				Compound Not Detected.		
16 Aroclor 1221 (2)				Compound Not Detected.		
17 Aroclor 1221 (3)				Compound Not Detected.		
18 Aroclor 1221 (4)				Compound Not Detected.		
19 Aroclor 1221 (5)				Compound Not Detected.		
M 20 Aroclor-1232				Compound Not Detected.		
21 Aroclor 1232 (1)				Compound Not Detected.		



Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052510.d  
 Report Date: 25-May-2017 12:02

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL ( ug/L)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				Compound Not Detected.		
39 Aroclor 1254 (1)				Compound Not Detected.		
40 Aroclor 1254 (2)				Compound Not Detected.		
41 Aroclor 1254 (3)				Compound Not Detected.		
42 Aroclor 1254 (4)				Compound Not Detected.		
43 Aroclor 1254 (5)				Compound Not Detected.		
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
§ 56 Decachlorobiphenyl	11.610	11.603	0.007	11277594053	110.933	111



Data File: /chem1/SVDA/CC\_31.i/170525.b/b17052510.d

Date: 25-MAY-2017 11:37

Client ID:

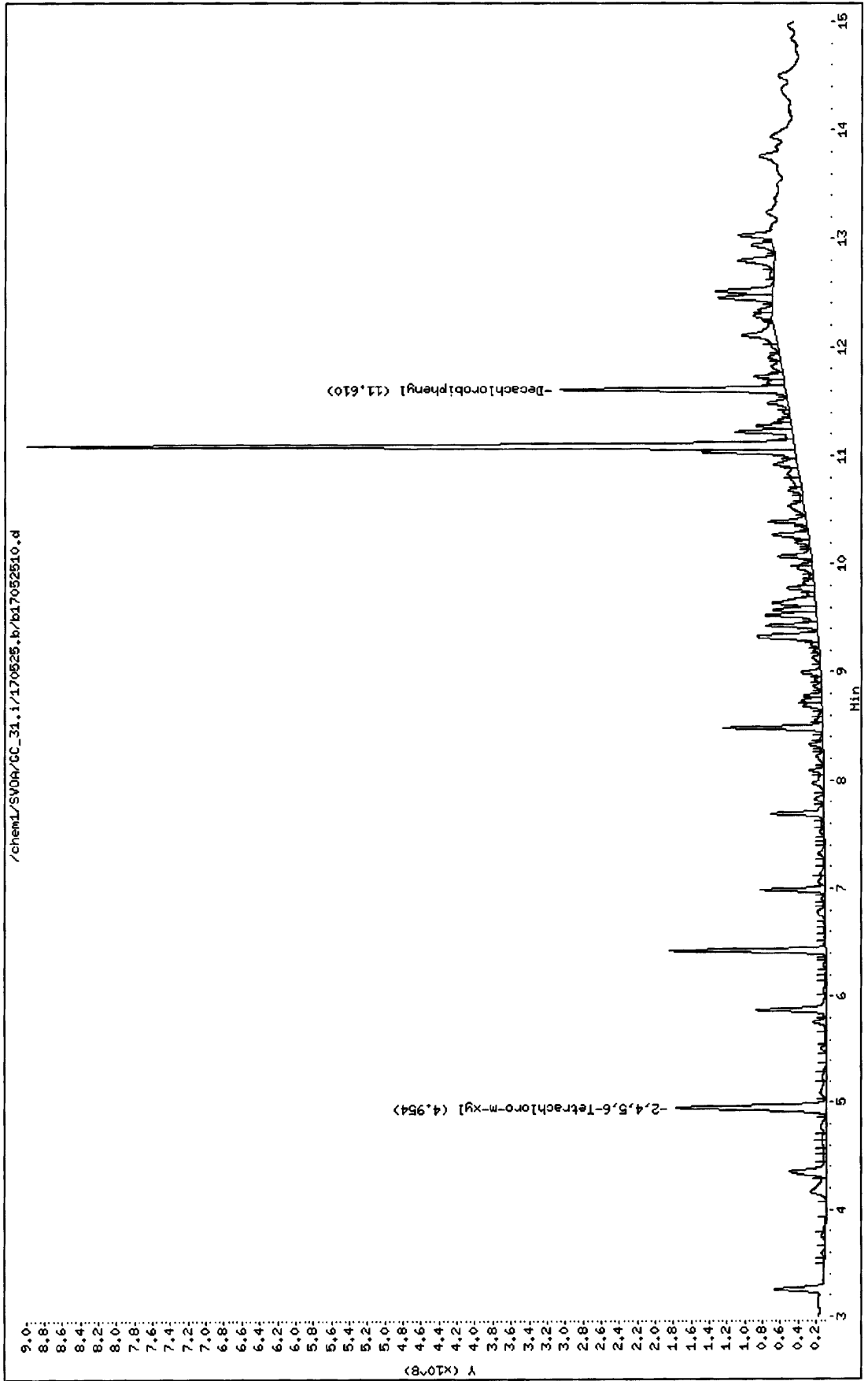
Sample Info: 17-08-1776-21

Instrument: GC\_31.i

Operator: 944

Column diameter: 2.00

Column phase:



**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 17-05-1776  
**INSTRUMENT:** GC 31  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 11:56  
**REVIEWED BY:** *M*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_31/170525/b1705251117052511

**# 22**                      **CLIENT SAMPLE NUMBER: TP-S011**

**LCS/MB BATCH:** 170523L13                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.10 g  
**MS/MSD BATCH:** 170523S13                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg                                      **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	1040	1.00	517	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

  
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Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052511.d  
 Report Date: 25-May-2017 12:21

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## Eurofins Calscience

## EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170525.b/b17052511.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 11:56  
 Operator : 944 . Inst ID: GC\_31.i  
 Smp Info : 17-05-1776-22  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170525.b/b8082-n2.m  
 Meth Date : 25-May-2017 11:21 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 11  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL ( ug/L)
\$ 1 2,4,5,6-Tetrachloro-m-xylene	4.954	4.953	0.001	9170689337	91.0964	91.1
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260				27196949381	1036.16	1040
9 Aroclor 1260 (1)	9.014	8.991	0.023	4925809663	549.404	549
10 Aroclor 1260 (2)	9.458	9.438	0.020	6866348285	1032.69	1030
11 Aroclor 1260 (3)	9.735	9.717	0.018	4813028080	884.424	884
12 Aroclor 1260 (4)	10.804	10.788	0.016	4000328859	2051.51	2050 (A)
13 Aroclor 1260 (5)	11.089	11.074	0.015	6591434495	2033.73	2030 (A)
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					

Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052511.d  
 Report Date: 25-May-2017 12:21

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL ( ug/L)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				Compound Not Detected.		
39 Aroclor 1254 (1)				Compound Not Detected.		
40 Aroclor 1254 (2)				Compound Not Detected.		
41 Aroclor 1254 (3)				Compound Not Detected.		
42 Aroclor 1254 (4)				Compound Not Detected.		
43 Aroclor 1254 (5)				Compound Not Detected.		
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
§ 56 Decachlorobiphenyl	11.616	11.603	0.013	12326393084	121.250	121

### QC Flag Legend

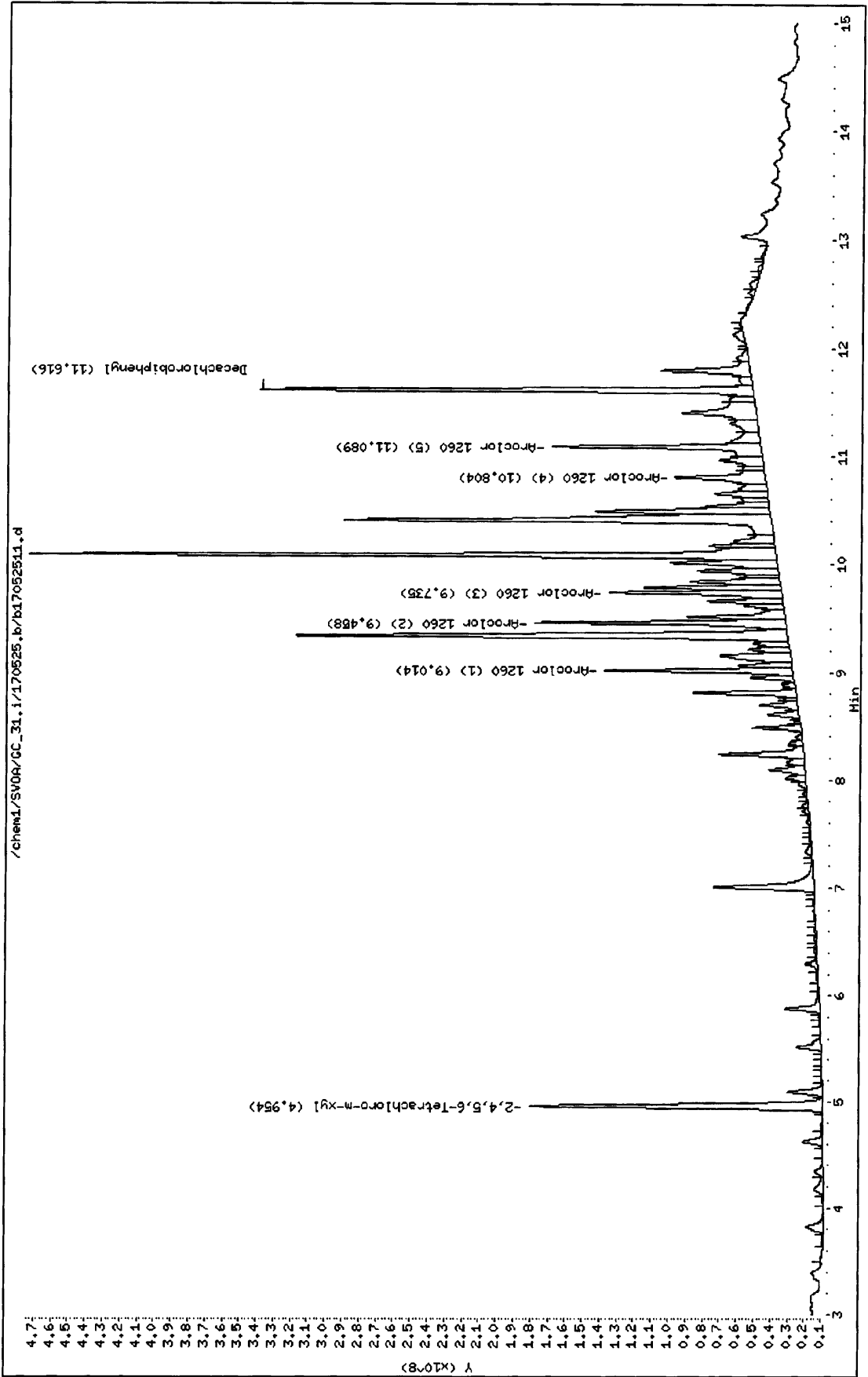
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem1/SV00A/GC\_31.i/170525.b/b17052511.d  
 Date : 25-MAY-2017 11:56  
 Client ID:  
 Sample Info: 17-05-1776-22

Instrument: GC\_31.i

Operator: 944  
 Column diameter: 2.00

Column phase:



# EPA METHOD 8082 PCB

## Quality Control

Method Blank  
LCS/LCSD  
MS/MSD

**METHOD BLANK ASSOCIATION SUMMARY  
FOR METHOD: EPA 8082**

**MB SAMPLE ID:** 099-15-959-203  
**MB BATCH ID:** 170523L12  
**INSTRUMENT:** GC 58  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 18:20  
**REVIEWED BY:** *W*  
**D/T REVIEWED:**  
**MATRIX:** Soil

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705252617052526

**CLIENT WORK ORDER: 17-05-1776**

S#	RUN TYPE	CLIENT SAMPLE ID	D/T ANALYZED	DATA FILE
1	DDP-S001		2017-05-25 19:50	/chem1/SVOA/GC_58/170525/b1705253117052531
2	DDP-S002		2017-05-25 20:08	/chem1/SVOA/GC_58/170525/b1705253217052532
3	DDP-S003		2017-05-25 20:26	/chem1/SVOA/GC_58/170525/b1705253317052533
4	DDP-S004		2017-05-25 20:44	/chem1/SVOA/GC_58/170525/b1705253417052534
5	DDP-S005		2017-05-25 21:02	/chem1/SVOA/GC_58/170525/b1705253517052535
6	DDP-S006		2017-05-25 21:20	/chem1/SVOA/GC_58/170525/b1705253617052536
7	DDP-S007		2017-05-25 21:38	/chem1/SVOA/GC_58/170525/b1705253717052537
8	DDP-S008		2017-05-25 21:56	/chem1/SVOA/GC_58/170525/b1705253817052538
9	DDP-S009		2017-05-25 22:14	/chem1/SVOA/GC_58/170525/b1705253917052539
10	DDP-S010		2017-05-26 16:52	/chem1/SVOA/GC_58/170526/b1705261817052618
11	DDP-S011		2017-05-25 22:50	/chem1/SVOA/GC_58/170525/b1705254117052541
12	TP-S001		2017-05-26 17:10	/chem1/SVOA/GC_58/170526/b1705261917052619
13	TP-S002		2017-05-25 23:25	/chem1/SVOA/GC_58/170525/b1705254317052543
14	TP-S003		2017-05-25 23:43	/chem1/SVOA/GC_58/170525/b1705254417052544
15	TP-S004		2017-05-26 00:01	/chem1/SVOA/GC_58/170525/b1705254517052545
16	TP-S005		2017-05-26 00:19	/chem1/SVOA/GC_58/170525/b1705254617052546
17	TP-S006		2017-05-26 00:37	/chem1/SVOA/GC_58/170525/b1705254717052547
18	TP-S007		2017-05-26 00:55	/chem1/SVOA/GC_58/170525/b1705254817052548
19	TP-S008		2017-05-26 01:13	/chem1/SVOA/GC_58/170525/b1705254917052549
20	TP-S009		2017-05-26 01:31	/chem1/SVOA/GC_58/170525/b1705255017052550

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**RAW DATA SHEET  
FOR METHOD: EPA 8082**

**WORK ORDER:** 099-15-959  
**INSTRUMENT:** GC 58  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 18:20  
**REVIEWED BY:** *M*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705252617052526

**# MB**                      **CLIENT SAMPLE NUMBER: Method Blank**

<b>LCS/MB BATCH:</b> 170523L12	<b>SAMPLE VOLUME / WEIGHT:</b> DEFAULT: 20.00 g / ACTUAL: 20.00 g
<b>MS/MSD BATCH:</b>	<b>FINAL VOLUME / WEIGHT:</b> DEFAULT: 10.00 ml / ACTUAL: 10.00 ml
<b>UNITS:</b> ug/kg	<b>ADJUSTMENT RATIO TO PF:</b> 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	0.000	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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**LCS QUALITY CONTROL SHEET  
FOR METHOD: EPA 8082**

LCS SAMPLE ID: 099-15-959- 203  
LCS/MB BATCH ID: 170523L12  
INSTRUMENT: GC 58

EXTRACTION: EPA 3545  
D/T EXTRACTED: 2017-05-23 00:00

ANALYZED BY: 944  
D/T ANALYZED: 2017-05-25 18:38  
REVIEWED BY: M  
D/T REVIEWED:

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705252717052527

<u>COMPOUND NAME</u>	<u>CONC ADDED</u>	<u>CONC REC</u>	<u>%RECOVERY</u>	<u>%REC CONTROL LIMIT</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Atoclor-1016	100.0	70.50	70	50-135	PASS	
Atoclor-1260	100.0	77.00	77	50-135	PASS	

# MATRIX SPIKE / MATRIX SPIKE DUPLICATE QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**SPIKED SAMPLE ID:** 17-05-1776-1  
**MS/MSD BATCH:** 170523S12  
**INSTRUMENTS:**  
 SAMPLE: GC 58  
 MS: GC 58  
 MSD: GC 58

**EXTRACTION:** EPA 3545  
**D/T EXTRACTION:**  
 SAMPLE: 2017-05-23 00:00  
 MS: 2017-05-23 00:00  
 MSD: 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:**  
 SAMPLE: 2017-05-25 19:50  
 MS: 2017-05-25 18:56  
 MSD: 2017-05-25 19:14  
**REVIEWED BY:** M  
**D/T REVIEWED:**

**COMMENT:**

COMPOUND NAME	SAMPLE	INITIAL	FINAL	MS CONC	% MS.REC	MSD CONC	% MSD.REC	% REC CL	RPD	RPD CL	STATUS	QUALIFIERS
Aroclor-1016	ND	200.0	100.0	80.50	80	46.07	46	50-135	54	0-20	FAIL	34G
Aroclor-1260	ND	200.0	100.0	144.0	144	77.11	77	50-135	60	0-25	FAIL	3F4

**Data Files:**

TYPE	DATA FILE	DATA FILE PATH
MS	17052528	/chem1/SVOA/GC_58/170525/b17052528
MSD	17052529	/chem1/SVOA/GC_58/170525/b17052529

## SURROGATE RECOVERIES FOR METHOD: EPA 8082

WORK ORDER: 17-05-1776

BATCH ID:

LCS/MB: 170523L12MS: 170523S12

EXTRACTION: EPA 3545

REVIEWED BY: 421

D/T REVIEWED: 2017-06-22 13:31

**# 1**      CLIENT SAMPLE NUMBER: DDP-S001INSTRUMENT: GC 58D/T EXTRACTED: 2017-05-23 00:00DATA FILE: /chem1/SVOA/GC\_58/170525/b1705253117052531ANALYZED BY: 944D/T ANALYZED 2017-05-25 19:50COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	85	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	62	25-145	PASS	

**# 2**      CLIENT SAMPLE NUMBER: DDP-S002INSTRUMENT: GC 58D/T EXTRACTED: 2017-05-23 00:00DATA FILE: /chem1/SVOA/GC\_58/170525/b1705253217052532ANALYZED BY: 944D/T ANALYZED 2017-05-25 20:08COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	86	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	61	25-145	PASS	

**# 3**      CLIENT SAMPLE NUMBER: DDP-S003INSTRUMENT: GC 58D/T EXTRACTED: 2017-05-23 00:00DATA FILE: /chem1/SVOA/GC\_58/170525/b1705253317052533ANALYZED BY: 944D/T ANALYZED 2017-05-25 20:26COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	92	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	72	25-145	PASS	

**# 4**      CLIENT SAMPLE NUMBER: DDP-S004INSTRUMENT: GC 58D/T EXTRACTED: 2017-05-23 00:00DATA FILE: /chem1/SVOA/GC\_58/170525/b1705253417052534ANALYZED BY: 944D/T ANALYZED 2017-05-25 20:44COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	83	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	66	25-145	PASS	

**SURROGATE RECOVERIES  
FOR METHOD: EPA 8082**

WORK ORDER: 17-05-1776  
BATCH ID:  
LCS/MB: **170523L12**  
MS: **170523S12**  
EXTRACTION : EPA 3545

REVIEWED BY: 421  
D/T REVIEWED: 2017-06-22 13:31

**# 5                    CLIENT SAMPLE NUMBER : DDP-S005**

INSTRUMENT: GC 58  
D/T EXTRACTED: 2017-05-23 00:00  
DATA FILE: /chem1/SVOA/GC\_58/170525/b1705253517052535

ANALYZED BY: 944  
D/T ANALYZED 2017-05-25 21:02

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	67	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	55	25-145	PASS	

**# 6                    CLIENT SAMPLE NUMBER : DDP-S006**

INSTRUMENT: GC 58  
D/T EXTRACTED: 2017-05-23 00:00  
DATA FILE: /chem1/SVOA/GC\_58/170525/b1705253617052536

ANALYZED BY: 944  
D/T ANALYZED 2017-05-25 21:20

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	88	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	72	25-145	PASS	

**# 7                    CLIENT SAMPLE NUMBER : DDP-S007**

INSTRUMENT: GC 58  
D/T EXTRACTED: 2017-05-23 00:00  
DATA FILE: /chem1/SVOA/GC\_58/170525/b1705253717052537

ANALYZED BY: 944  
D/T ANALYZED 2017-05-25 21:38

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	54	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	82	25-145	PASS	

**# 8                    CLIENT SAMPLE NUMBER : DDP-S008**

INSTRUMENT: GC 58  
D/T EXTRACTED: 2017-05-23 00:00  
DATA FILE: /chem1/SVOA/GC\_58/170525/b1705253817052538

ANALYZED BY: 944  
D/T ANALYZED 2017-05-25 21:56

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	44	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	44	25-145	PASS	

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**SURROGATE RECOVERIES  
FOR METHOD: EPA 8082**

WORK ORDER: 17-05-1776

BATCH ID:

LCS/MB: **170523L12**

MS: **170523S12**

EXTRACTION: EPA 3545

REVIEWED BY: 421

D/T REVIEWED: 2017-06-22 13:31

**# 9**      CLIENT SAMPLE NUMBER: **DDP-S009**

INSTRUMENT: GC 58

D/T EXTRACTED: 2017-05-23 00:00

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705253917052539

ANALYZED BY: 944

D/T ANALYZED 2017-05-25 22:14

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	81	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	61	25-145	PASS	

**# 10**      CLIENT SAMPLE NUMBER: **DDP-S010**

INSTRUMENT: GC 58

D/T EXTRACTED: 2017-05-23 00:00

DATA FILE: /chem1/SVOA/GC\_58/170526/b1705261817052618

ANALYZED BY: 944

D/T ANALYZED 2017-05-26 16:52

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	91	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	75	25-145	PASS	

**# 11**      CLIENT SAMPLE NUMBER: **DDP-S011**

INSTRUMENT: GC 58

D/T EXTRACTED: 2017-05-23 00:00

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705254117052541

ANALYZED BY: 944

D/T ANALYZED 2017-05-25 22:50

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	50	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	68	25-145	PASS	

**# 12**      CLIENT SAMPLE NUMBER: **TP-S001**

INSTRUMENT: GC 58

D/T EXTRACTED: 2017-05-23 00:00

DATA FILE: /chem1/SVOA/GC\_58/170526/b1705261917052619

ANALYZED BY: 944

D/T ANALYZED 2017-05-26 17:10

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	58	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	51	25-145	PASS	

**SURROGATE RECOVERIES  
FOR METHOD: EPA 8082**

WORK ORDER: 17-05-1776

REVIEWED BY: 421

BATCH ID:

D/T REVIEWED: 2017-06-22 13:31

LCS/MB: 170523L12

MS: 170523S12

EXTRACTION: EPA 3545

**# 13            CLIENT SAMPLE NUMBER : TP-S002**

INSTRUMENT: GC 58

ANALYZED BY: 944

D/T EXTRACTED: 2017-05-23 00:00

D/T ANALYZED 2017-05-25 23:25

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705254317052543

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	102	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	68	25-145	PASS	

**# 14            CLIENT SAMPLE NUMBER : TP-S003**

INSTRUMENT: GC 58

ANALYZED BY: 944

D/T EXTRACTED: 2017-05-23 00:00

D/T ANALYZED 2017-05-25 23:43

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705254417052544

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	81	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	60	25-145	PASS	

**# 15            CLIENT SAMPLE NUMBER : TP-S004**

INSTRUMENT: GC 58

ANALYZED BY: 944

D/T EXTRACTED: 2017-05-23 00:00

D/T ANALYZED 2017-05-26 00:01

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705254517052545

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	80	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	65	25-145	PASS	

**# 16            CLIENT SAMPLE NUMBER : TP-S005**

INSTRUMENT: GC 58

ANALYZED BY: 944

D/T EXTRACTED: 2017-05-23 00:00

D/T ANALYZED 2017-05-26 00:19

DATA FILE: /chem1/SVOA/GC\_58/170525/b1705254617052546

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	98	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	79	25-145	PASS	

**SURROGATE RECOVERIES  
FOR METHOD: EPA 8082**

WORK ORDER: 17-05-1776  
BATCH ID:  
LCS/MB: 170523L12  
MS: 170523S12  
EXTRACTION: EPA 3545

REVIEWED BY: 421  
D/T REVIEWED: 2017-06-22 13:31

**# 17**      CLIENT SAMPLE NUMBER: **TP-S006**

INSTRUMENT: GC 58  
D/T EXTRACTED: 2017-05-23 00:00  
DATA FILE: /chem1/SVOA/GC\_58/170525/b1705254717052547

ANALYZED BY: 944  
D/T ANALYZED 2017-05-26 00:37

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	79	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	55	25-145	PASS	

**# 18**      CLIENT SAMPLE NUMBER: **TP-S007**

INSTRUMENT: GC 58  
D/T EXTRACTED: 2017-05-23 00:00  
DATA FILE: /chem1/SVOA/GC\_58/170525/b1705254817052548

ANALYZED BY: 944  
D/T ANALYZED 2017-05-26 00:55

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	67	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	55	25-145	PASS	

**# 19**      CLIENT SAMPLE NUMBER: **TP-S008**

INSTRUMENT: GC 58  
D/T EXTRACTED: 2017-05-23 00:00  
DATA FILE: /chem1/SVOA/GC\_58/170525/b1705254917052549

ANALYZED BY: 944  
D/T ANALYZED 2017-05-26 01:13

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	86	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	76	25-145	PASS	

**# 20**      CLIENT SAMPLE NUMBER: **TP-S009**

INSTRUMENT: GC 58  
D/T EXTRACTED: 2017-05-23 00:00  
DATA FILE: /chem1/SVOA/GC\_58/170525/b1705255017052550

ANALYZED BY: 944  
D/T ANALYZED 2017-05-26 01:31

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	88	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	54	25-145	PASS	

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**SURROGATE RECOVERIES  
FOR METHOD: EPA 8082**

WORK ORDER: 17-05-1776  
BATCH ID:  
LCS/MB: 170523L12  
MS:  
EXTRACTION: EPA 3545

REVIEWED BY: 27  
D/T REVIEWED: 2017-05-26 18:15

# **MB**      **CLIENT SAMPLE NUMBER : Method Blank**

INSTRUMENT: GC 58  
D/T EXTRACTED: 2017-05-23 00:00  
DATA FILE: /chem1/SVOA/GC\_58/170525/b1705252617052526

ANALYZED BY: 944  
D/T ANALYZED 2017-05-25 18:20

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	109	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	80	25-145	PASS	

# **LCS**      **CLIENT SAMPLE NUMBER : Lab Control Sample**

INSTRUMENT: GC 58  
D/T EXTRACTED: 2017-05-23 00:00  
DATA FILE: /chem1/SVOA/GC\_58/170525/b1705252717052527

ANALYZED BY: 944  
D/T ANALYZED 2017-05-25 18:38

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	80	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	62	25-145	PASS	

# **MS**      **CLIENT SAMPLE NUMBER : Matrix Spike**

INSTRUMENT: GC 58  
D/T EXTRACTED: 2017-05-23 00:00  
DATA FILE: /chem1/SVOA/GC\_58/170525/b1705252817052528

ANALYZED BY: 944  
D/T ANALYZED 2017-05-25 18:56

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	101	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	74	25-145	PASS	

# **MSD**      **CLIENT SAMPLE NUMBER : Matrix Spike Duplicate**

INSTRUMENT: GC 58  
D/T EXTRACTED: 2017-05-23 00:00  
DATA FILE: /chem1/SVOA/GC\_58/170525/b1705252917052529

ANALYZED BY: 944  
D/T ANALYZED 2017-05-25 19:14

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	49	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	34	25-145	PASS	



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052526.d  
 Report Date: 26-May-2017 11:01

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052526.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 18:20  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : MB 170523L12  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 26  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: all.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.743	4.740	0.003	5051884316	79.7019	79.7
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260	Compound Not Detected.					
9 Aroclor 1260 (1)	Compound Not Detected.					
10 Aroclor 1260 (2)	Compound Not Detected.					
11 Aroclor 1260 (3)	Compound Not Detected.					
12 Aroclor 1260 (4)	Compound Not Detected.					
13 Aroclor 1260 (5)	Compound Not Detected.					
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052526.d  
 Report Date: 26-May-2017 11:01

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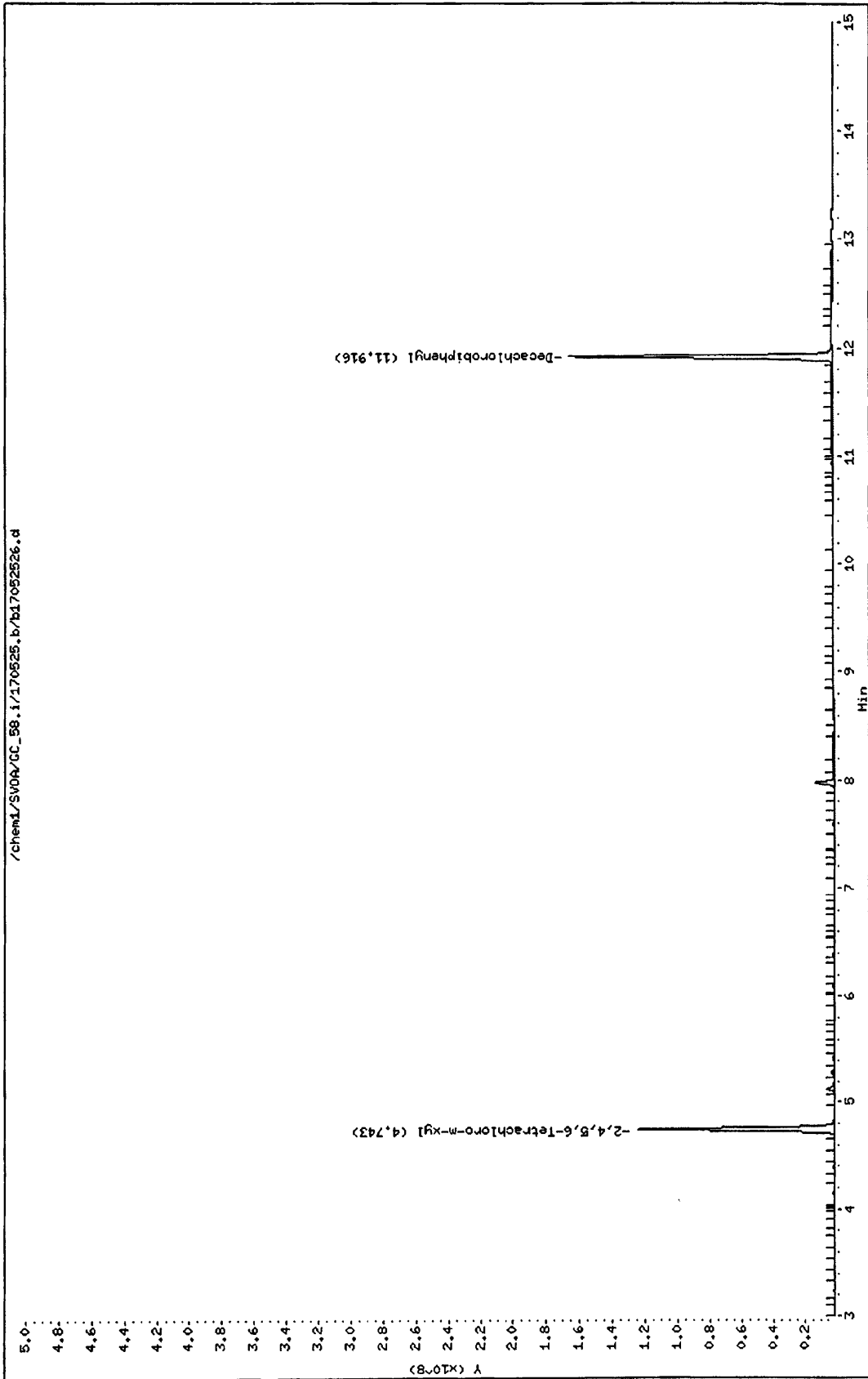
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				Compound Not Detected.		
39 Aroclor 1254 (1)				Compound Not Detected.		
40 Aroclor 1254 (2)				Compound Not Detected.		
41 Aroclor 1254 (3)				Compound Not Detected.		
42 Aroclor 1254 (4)				Compound Not Detected.		
43 Aroclor 1254 (5)				Compound Not Detected.		
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
T 56 Decachlorobiphenyl	11.916	11.920	-0.004	6827233756	109.344	109

Data File: /chem1/SV04/GC\_58.i/170525.b/b17052526.d  
Date: 25-May-2017 18:20  
Client ID:  
Sample Info: MB 170523L12

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052527.d  
 Report Date: 26-May-2017 11:01

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## Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052527.d

Lab Smp Id:

Inj Date : 25-MAY-2017 18:38

Operator : 944

Inst ID: GC\_58.i

Smp Info : LCS 170523L12

Misc Info :

Comment : Rtx-CLPesticide II

Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m

Meth Date : 26-May-2017 10:04 src3

Quant Type: ESTD

Cal Date : 23-MAY-2017 19:33

Cal File: b17052330.d

Als bottle: 27

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: p1016\_1260.sub

Target Version: 3.50

Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

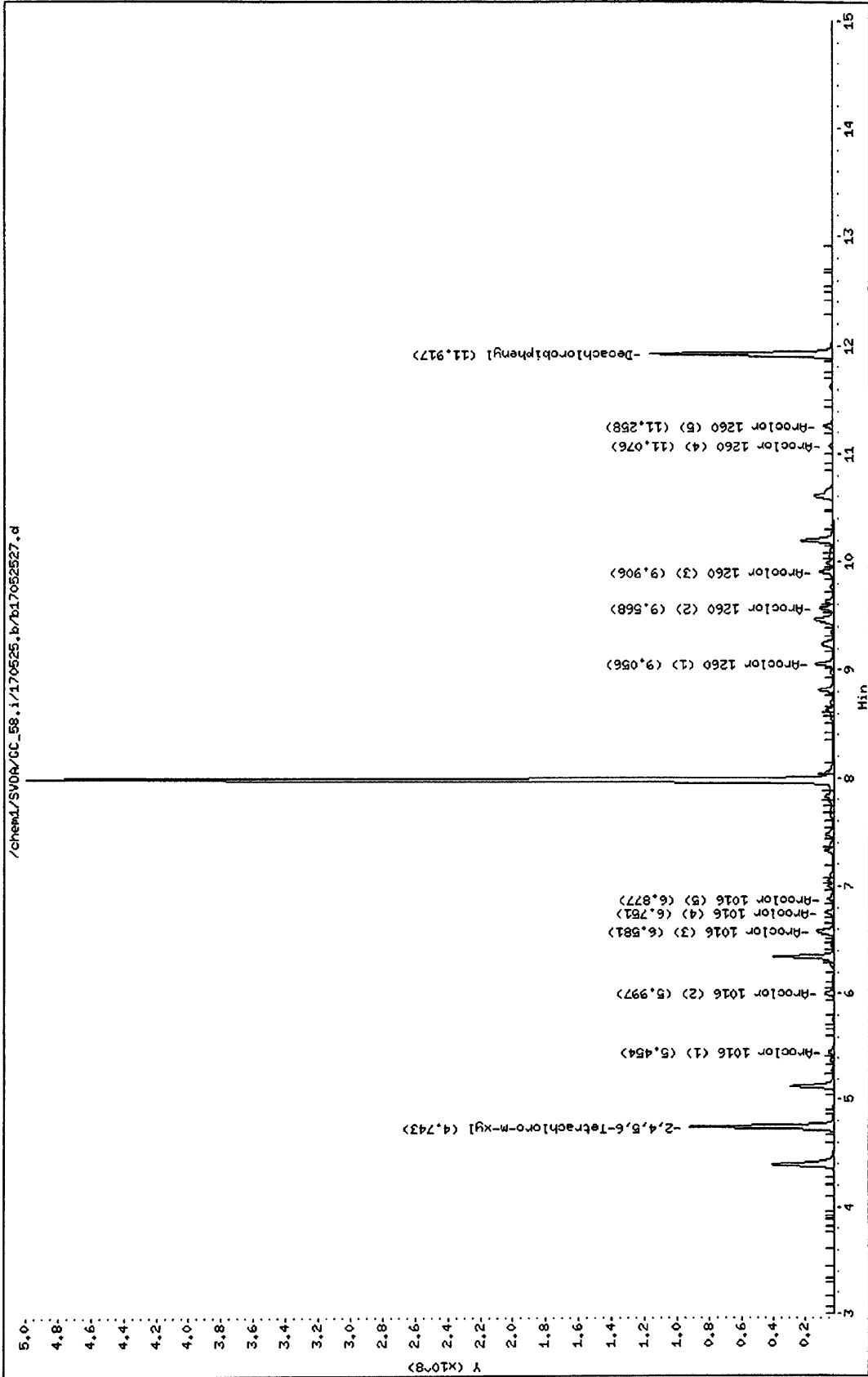
Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.743	4.740	0.003	3900641030	61.5391	61.5
M 2 Aroclor-1016				1622819547	141.033	141
3 Aroclor 1016 (1)	5.454	5.452	0.002	178525588	158.985	159
4 Aroclor 1016 (2)	5.997	5.996	0.001	290239224	137.909	138
5 Aroclor 1016 (3)	6.581	6.580	0.001	639940169	135.565	136
6 Aroclor 1016 (4)	6.751	6.750	0.001	284485544	143.259	143
7 Aroclor 1016 (5)	6.877	6.877	0.000	229629022	146.000	146
M 8 Aroclor-1260				1782391566	154.493	154
9 Aroclor 1260 (1)	9.056	9.057	-0.001	545289160	158.055	158
10 Aroclor 1260 (2)	9.568	9.570	-0.002	384881260	150.331	150
11 Aroclor 1260 (3)	9.906	9.908	-0.002	430759734	150.284	150
12 Aroclor 1260 (4)	11.076	11.081	-0.005	126460396	156.054	156
13 Aroclor 1260 (5)	11.258	11.264	-0.006	295001016	159.445	159
T 56 Decachlorobiphenyl	11.917	11.920	-0.003	4985913799	79.8540	79.8

Data File: /chem1/SV04/GC\_58.i/170525.b/17052527.d  
Date : 25-MAY-2017 18:38  
Client ID:  
Sample Info: LCS 170523112

Instrument: GC\_58.i  
Operator: 944  
Column diameter: 2.00



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052528.d  
 Report Date: 26-May-2017 11:01

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## Eurofins Calscience

## EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052528.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 18:56  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : MS 17-05-1776-1 170523S12  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 28  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.743	4.740	0.003	4668202163	73.6487	73.6
M 2 Aroclor-1016				1848433031	160.641	161
3 Aroclor 1016 (1)	5.453	5.452	0.001	245555142	218.678	219
4 Aroclor 1016 (2)	5.997	5.996	0.001	349752251	166.187	166
5 Aroclor 1016 (3)	6.580	6.580	0.000	751584257	159.216	159
6 Aroclor 1016 (4)	6.750	6.750	0.000	307626436	154.913	155
7 Aroclor 1016 (5)	6.877	6.877	0.000	193914945	123.293	123
M 8 Aroclor-1260				3327458020	288.415	288
9 Aroclor 1260 (1)	9.054	9.057	-0.003	1164659549	337.583	338
10 Aroclor 1260 (2)	9.568	9.570	-0.002	599430934	234.132	234
11 Aroclor 1260 (3)	9.901	9.908	-0.007	1009424955	352.170	352
12 Aroclor 1260 (4)	11.073	11.081	-0.008	157878364	194.825	195
13 Aroclor 1260 (5)	11.254	11.264	-0.010	396064218	214.069	214
T 56 Decachlorobiphenyl	11.915	11.920	-0.005	6324547754	101.293	101

Data File: /chem1/SVDR/GC\_58.i/170525.br/b17052528.d

Date : 25-MAY-2017 18:56

Client ID:

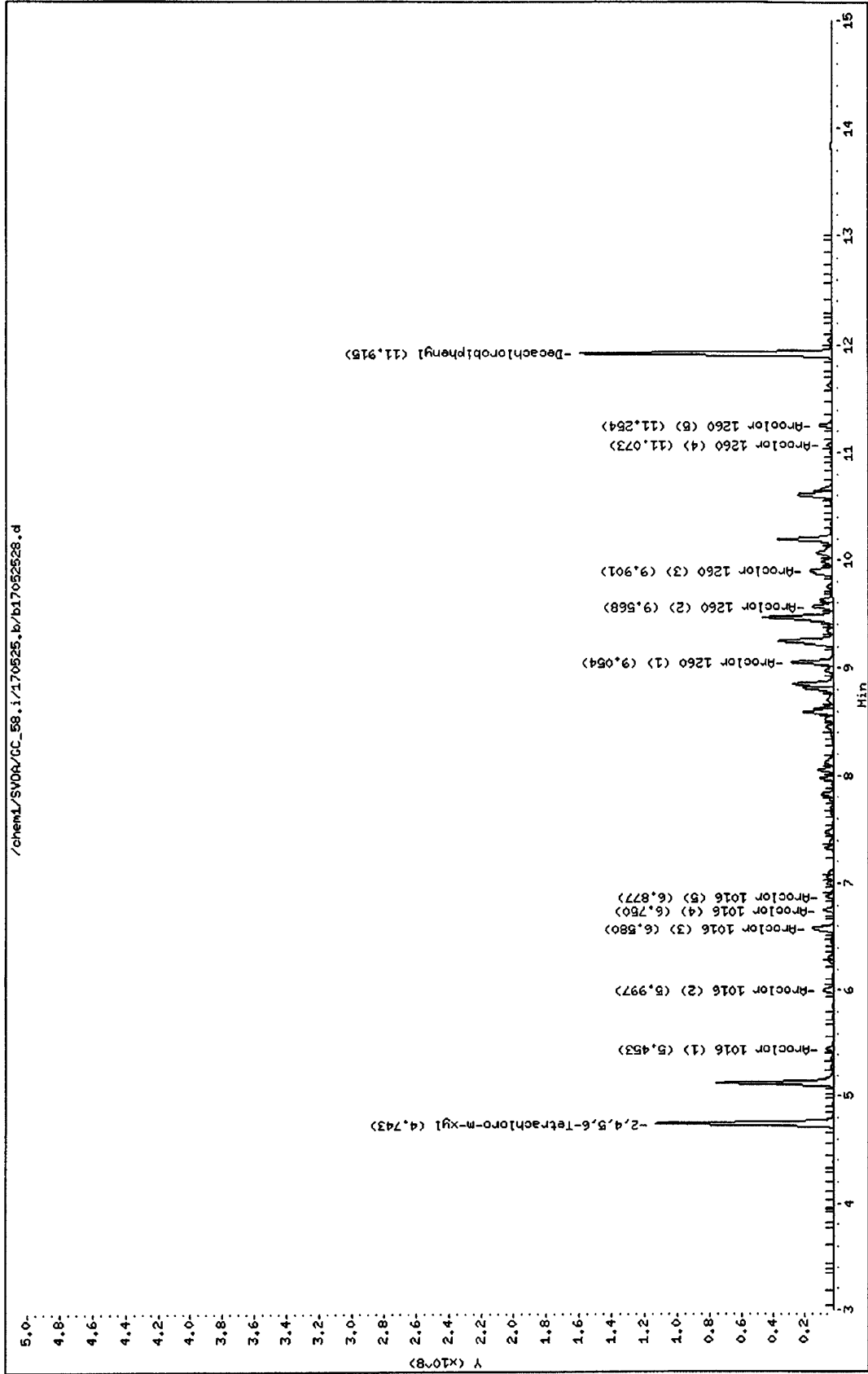
Sample Info: MS 17-05-1776-1 170525S12

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

/chem1/SVDR/GC\_58.i/170525.br/b17052528.d



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052529.d  
 Report Date: 26-May-2017 11:01

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## Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052529.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 19:14  
 Operator : 944  
 Smp Info : MSD 17-05-1776-1 170523S12  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3  
 Cal Date : 23-MAY-2017 19:33  
 Als bottle: 29  
 Dil Factor: 1.00000  
 Integrator: HP Genie  
 Target Version: 3.50  
 Processing Host: US26TAR4

Inst ID: GC\_58.i

Quant Type: ESTD

Cal File: b17052330.d

Compound Sublist: p1016\_1260.sub

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL (ug/Kg)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.742	4.740	0.002	2137842374	33.7280	33.7
M 2 Aroclor-1016				1065802940	92.6251	92.6 (a)
3 Aroclor 1016 (1)	5.453	5.452	0.001	115887635	103.203	103
4 Aroclor 1016 (2)	6.001	5.996	0.005	265875764	126.333	126
5 Aroclor 1016 (3)	6.581	6.580	0.001	383572478	81.2560	81.2 (a)
6 Aroclor 1016 (4)	6.751	6.750	0.001	164995742	83.0875	83.1 (a)
7 Aroclor 1016 (5)	6.878	6.877	0.001	135471321	86.1337	86.1 (a)
M 8 Aroclor-1260				1785814471	154.790	155
9 Aroclor 1260 (1)	9.055	9.057	-0.002	637790462	184.867	185
10 Aroclor 1260 (2)	9.568	9.570	-0.002	322329223	125.899	126
11 Aroclor 1260 (3)	9.902	9.908	-0.006	524847260	183.110	183
12 Aroclor 1260 (4)	11.073	11.081	-0.008	88449432	109.148	109
13 Aroclor 1260 (5)	11.254	11.264	-0.010	212398094	114.799	115
T 56 Decachlorobiphenyl	11.915	11.920	-0.005	3081915896	49.3597	49.4

## QC Flag Legend

a - Target compound detected but, quantitated amount  
 Below Limit Of Quantitation(BLOQ).

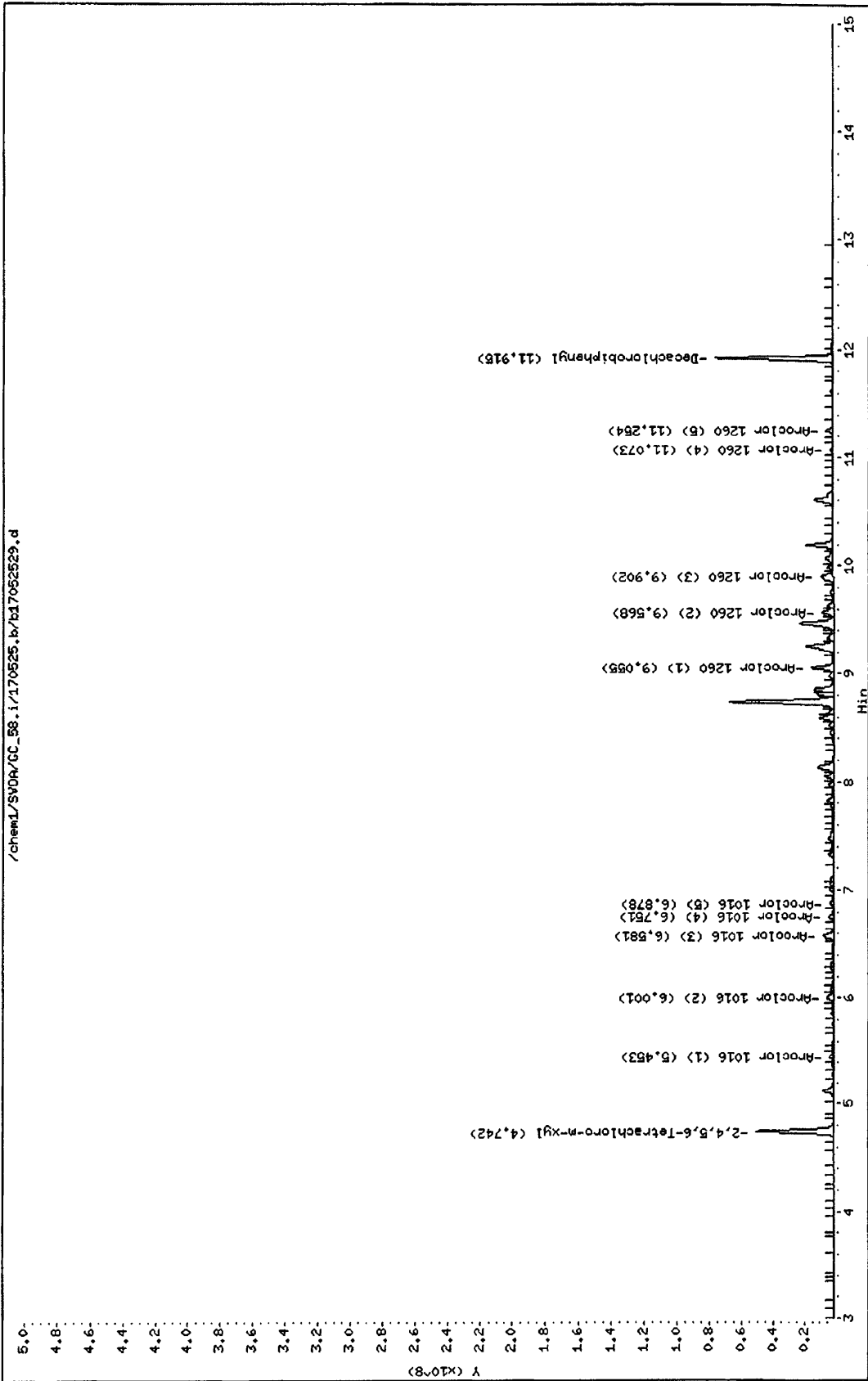


Data File: /chem1/SV04/GC\_58.i/170525.b/b17052529.d  
Date : 25-MAY-2017 19:14  
Client ID:  
Sample Info: MSD 17-05-1776-1 170523S12

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00



**METHOD BLANK ASSOCIATION SUMMARY  
FOR METHOD: EPA 8082**

**MB SAMPLE ID:** 099-15-959-200  
**MB BATCH ID:** 170523L13  
**INSTRUMENT:** GC 31  
**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 10:42  
**REVIEWED BY:**  
**D/T REVIEWED:**  
**MATRIX:** Soil

**DATA FILE:** /chem1/SVOA/GC\_31/170525/b1705250717052507

**CLIENT WORK ORDER: 17-05-1776**

<u>S#</u>	<u>RUN TYPE</u>	<u>CLIENT SAMPLE ID</u>	<u>D/T ANALYZED</u>	<u>DATA FILE</u>
21	TP-S010		2017-05-25 11:37	/chem1/SVOA/GC_31/170525/b1705251017052510
22	TP-S011		2017-05-25 11:56	/chem1/SVOA/GC_31/170525/b1705251117052511

# RAW DATA SHEET FOR METHOD: EPA 8082

**WORK ORDER:** 099-15-959  
**INSTRUMENT:** GC 31  
**EXTRACTION :** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 10:42  
**REVIEWED BY:** *M*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_31/170525/b1705250717052507

**# MB**                      **CLIENT SAMPLE NUMBER: Method Blank**

**LCS/MB BATCH:** 170523L13                      **SAMPLE VOLUME / WEIGHT:** DEFAULT: 20.00 g / ACTUAL: 20.00 g  
**MS/MSD BATCH:**                                      **FINAL VOLUME / WEIGHT:** DEFAULT: 10.00 ml / ACTUAL: 10.00 ml  
**UNITS:** ug/kg    **ADJUSTMENT RATIO TO PF:** 1.00

**COMMENT:**

<u>COMPOUND</u>	<u>ON COL CONC</u>	<u>DF</u>	<u>CONC</u>	<u>RL</u>	<u>QUAL</u>
Aroclor-1016	0.000	1.00	ND	50	
Aroclor-1221	0.000	1.00	ND	50	
Aroclor-1232	0.000	1.00	ND	50	
Aroclor-1242	0.000	1.00	ND	50	
Aroclor-1248	0.000	1.00	ND	50	
Aroclor-1254	0.000	1.00	ND	50	
Aroclor-1260	0.000	1.00	ND	50	
Aroclor-1262	0.000	1.00	ND	50	
Aroclor-1268	0.000	1.00	ND	50	

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**LCS QUALITY CONTROL SHEET  
FOR METHOD: EPA 8082**

**LCS SAMPLE ID:** 099-15-959- 200  
**LCS/MB BATCH ID:** 170523L13  
**INSTRUMENT:** GC 31

**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:** 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:** 2017-05-25 11:00  
**REVIEWED BY:** *M*  
**D/T REVIEWED:**

**DATA FILE:** /chem1/SVOA/GC\_31/170525/b1705250817052508

<u>COMPOUND NAME</u>	<u>CONC ADDED</u>	<u>CONC REC</u>	<u>%RECOVERY</u>	<u>%REC CONTROL LIMIT</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Aroclor-1016	100.0	112.0	112	50-135	PASS	
Aroclor-1260	100.0	117.0	117	50-135	PASS	

# MATRIX SPIKE / MATRIX SPIKE DUPLICATE QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**SPIKED SAMPLE ID:** 17-05-1776-22  
**MS/MSD BATCH:** 170523S13  
**INSTRUMENTS:**  
 SAMPLE: GC 31  
 MS: GC 31  
 MSD: GC 31

**EXTRACTION:** EPA 3545  
**D/T EXTRACTED:**  
 SAMPLE: 2017-05-23 00:00  
 MS: 2017-05-23 00:00  
 MSD: 2017-05-23 00:00

**ANALYZED BY:** 944  
**D/T ANALYZED:**  
 SAMPLE: 2017-05-25 11:56  
 MS: 2017-05-25 12:15  
 MSD: 2017-05-25 12:34

**REVIEWED BY:**  
**D/T REVIEWED:**

**COMMENT:**

COMPOUND NAME	SAMPLE	INITIAL	FINAL	MS CONC	% MS.REC	MSD CONC	% MSD.REC	% REC.CL	RPD	RPD.CL	STATUS	QUALIFIERS
Aroclor-1016	ND	200.0	100.0	66.34	66	67.50	68	50-135	2	0-20	PASS	
<b>Aroclor-1260</b>	<b>517.4</b>	<b>200.0</b>	<b>100.0</b>	<b>274.8</b>	<b>0</b>	<b>269.5</b>	<b>0</b>	<b>50-135</b>	<b>2</b>	<b>0-25</b>	<b>FAIL</b>	<b>3G</b>

**Data Files:**

TYPE	DATA FILE	DATA FILE PATH
MS	17052512	/chem1/SVOA/GC_31/170525/b17052512
MSD	17052513	/chem1/SVOA/GC_31/170525/b17052513

## SURROGATE RECOVERIES FOR METHOD: EPA 8082

WORK ORDER: 17-05-1776

BATCH ID:

LCS/MB: 170523L13MS: 170523S13

EXTRACTION: EPA 3545

REVIEWED BY: 421

D/T REVIEWED: 2017-06-22 13:31

**# 21**      CLIENT SAMPLE NUMBER : TP-S010INSTRUMENT: GC 31D/T EXTRACTED: 2017-05-23 00:00DATA FILE: /chem1/SVOA/GC\_31/170525/b1705251017052510ANALYZED BY: 944D/T ANALYZED 2017-05-25 11:37COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	111	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	101	25-145	PASS	

**# 22**      CLIENT SAMPLE NUMBER : TP-S011INSTRUMENT: GC 31D/T EXTRACTED: 2017-05-23 00:00DATA FILE: /chem1/SVOA/GC\_31/170525/b1705251117052511ANALYZED BY: 944D/T ANALYZED 2017-05-25 11:56COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	121	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	91	25-145	PASS	

**# MB**      CLIENT SAMPLE NUMBER : Method BlankINSTRUMENT: GC 31D/T EXTRACTED: 2017-05-23 00:00DATA FILE: /chem1/SVOA/GC\_31/170525/b1705250717052507ANALYZED BY: 944D/T ANALYZED 2017-05-25 10:42COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	113	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	89	25-145	PASS	

**# LCS**      CLIENT SAMPLE NUMBER : Lab Control SampleINSTRUMENT: GC 31D/T EXTRACTED: 2017-05-23 00:00DATA FILE: /chem1/SVOA/GC\_31/170525/b1705250817052508ANALYZED BY: 944D/T ANALYZED 2017-05-25 11:00COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	125	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	107	25-145	PASS	

**SURROGATE RECOVERIES  
FOR METHOD: EPA 8082**

WORK ORDER: 17-05-1776

BATCH ID:

LCS/MB:

MS: 170523S13

EXTRACTION: EPA 3545

REVIEWED BY: 421

D/T REVIEWED: 2017-06-22 13:31

# MS      CLIENT SAMPLE NUMBER: Matrix Spike

INSTRUMENT: GC 31

D/T EXTRACTED: 2017-05-23 00:00

DATA FILE: /chem1/SVOA/GC\_31/170525/b1705251217052512

ANALYZED BY: 944

D/T ANALYZED 2017-05-25 12:15

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	64	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	54	25-145	PASS	

# MSD      CLIENT SAMPLE NUMBER: Matrix Spike Duplicate

INSTRUMENT: GC 31

D/T EXTRACTED: 2017-05-23 00:00

DATA FILE: /chem1/SVOA/GC\_31/170525/b1705251317052513

ANALYZED BY: 944

D/T ANALYZED 2017-05-25 12:34

COMMENT:

<u>COMPOUND</u>	<u>% REC</u>	<u>% REC CL</u>	<u>STATUS</u>	<u>QUALIFIERS</u>
Decachlorobiphenyl	64	24-168	PASS	
2,4,5,6-Tetrachloro-m-Xylene	53	25-145	PASS	

Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052507.d  
 Report Date: 25-May-2017 11:21

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Eurofins Calscience

EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170525.b/b17052507.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 10:42  
 Operator : 944  
 Smp Info : MB 170523L13  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170525.b/b8082-n2.m  
 Meth Date : 25-May-2017 11:21 src3  
 Cal Date : 19-MAY-2017 14:44  
 Als bottle: 7  
 Dil Factor: 1.00000  
 Integrator: HP Genie  
 Target Version: 3.50  
 Processing Host: US26TAR4

Inst ID: GC\_31.i

Quant Type: ESTD

Cal File: b17051910.d

Compound Sublist: all.sub

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL ( ug/L)
S 1 2,4,5,6-Tetrachloro-m-xylene	4.958	4.953	0.005	8958357156	88.9872	89.0
M 2 Aroclor-1016	Compound Not Detected.					
3 Aroclor 1016 (1)	Compound Not Detected.					
4 Aroclor 1016 (2)	Compound Not Detected.					
5 Aroclor 1016 (3)	Compound Not Detected.					
6 Aroclor 1016 (4)	Compound Not Detected.					
7 Aroclor 1016 (5)	Compound Not Detected.					
M 8 Aroclor-1260	Compound Not Detected.					
9 Aroclor 1260 (1)	Compound Not Detected.					
10 Aroclor 1260 (2)	Compound Not Detected.					
11 Aroclor 1260 (3)	Compound Not Detected.					
12 Aroclor 1260 (4)	Compound Not Detected.					
13 Aroclor 1260 (5)	Compound Not Detected.					
M 14 Aroclor-1221	Compound Not Detected.					
15 Aroclor 1221 (1)	Compound Not Detected.					
16 Aroclor 1221 (2)	Compound Not Detected.					
17 Aroclor 1221 (3)	Compound Not Detected.					
18 Aroclor 1221 (4)	Compound Not Detected.					
19 Aroclor 1221 (5)	Compound Not Detected.					
M 20 Aroclor-1232	Compound Not Detected.					
21 Aroclor 1232 (1)	Compound Not Detected.					



Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052507.d  
 Report Date: 25-May-2017 11:21

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL ( ug/L)
22 Aroclor 1232 (2)				Compound Not Detected.		
23 Aroclor 1232 (3)				Compound Not Detected.		
24 Aroclor 1232 (4)				Compound Not Detected.		
25 Aroclor 1232 (5)				Compound Not Detected.		
M 26 Aroclor-1242				Compound Not Detected.		
27 Aroclor 1242 (1)				Compound Not Detected.		
28 Aroclor 1242 (2)				Compound Not Detected.		
29 Aroclor 1242 (3)				Compound Not Detected.		
30 Aroclor 1242 (4)				Compound Not Detected.		
31 Aroclor 1242 (5)				Compound Not Detected.		
M 32 Aroclor-1248				Compound Not Detected.		
33 Aroclor 1248 (1)				Compound Not Detected.		
34 Aroclor 1248 (2)				Compound Not Detected.		
35 Aroclor 1248 (3)				Compound Not Detected.		
36 Aroclor 1248 (4)				Compound Not Detected.		
37 Aroclor 1248 (5)				Compound Not Detected.		
M 38 Aroclor-1254				Compound Not Detected.		
39 Aroclor 1254 (1)				Compound Not Detected.		
40 Aroclor 1254 (2)				Compound Not Detected.		
41 Aroclor 1254 (3)				Compound Not Detected.		
42 Aroclor 1254 (4)				Compound Not Detected.		
43 Aroclor 1254 (5)				Compound Not Detected.		
M 44 Aroclor-1262				Compound Not Detected.		
45 Aroclor 1262 (1)				Compound Not Detected.		
46 Aroclor 1262 (2)				Compound Not Detected.		
47 Aroclor 1262 (3)				Compound Not Detected.		
48 Aroclor 1262 (4)				Compound Not Detected.		
49 Aroclor 1262 (5)				Compound Not Detected.		
M 50 Aroclor-1268				Compound Not Detected.		
51 Aroclor 1268 (1)				Compound Not Detected.		
52 Aroclor 1268 (2)				Compound Not Detected.		
53 Aroclor 1268 (3)				Compound Not Detected.		
54 Aroclor 1268 (4)				Compound Not Detected.		
55 Aroclor 1268 (5)				Compound Not Detected.		
\$ 56 Decachlorobiphenyl	11.606	11.603	0.003	11527296098	113.389	113

Data File: /chem1/SV06/GC\_31.i/170525.b/b17052507.d

Date : 25-MAY-2017 10:42

Client ID:

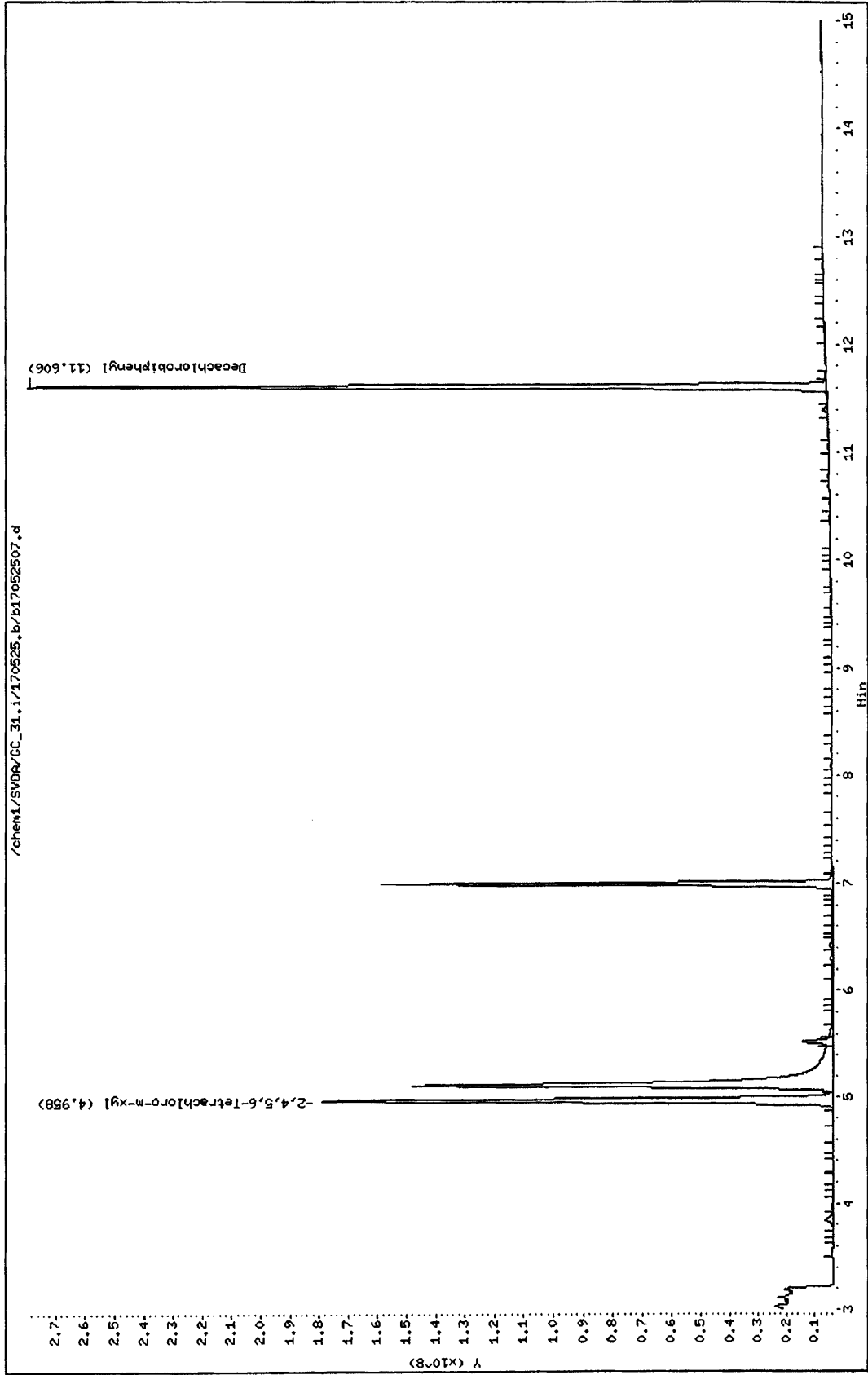
Sample Info: MB 170523L13

Instrument: GC\_31.i

Operator: 944

Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052508.d  
 Report Date: 25-May-2017 11:25

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EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170525.b/b17052508.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 11:00  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : LCS 170523L13  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170525.b/b8082-n2.m  
 Meth Date : 25-May-2017 11:21 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 8  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL ( ug/L)
§ 1 2,4,5,6-Tetrachloro-m-xylene	4.956	4.953	0.003	10795675379	107.238	107
M 2 Aroclor-1016				3909827613	223.603	224
3 Aroclor 1016 (1)	5.485	5.480	0.005	398961336	226.660	227
4 Aroclor 1016 (2)	5.968	5.964	0.004	716527688	224.174	224
5 Aroclor 1016 (3)	6.574	6.571	0.003	1646171587	222.247	222
6 Aroclor 1016 (4)	6.742	6.739	0.003	696984806	221.287	221
7 Aroclor 1016 (5)	6.821	6.818	0.003	451182193	228.743	229
M 8 Aroclor-1260				6146045389	234.155	234
9 Aroclor 1260 (1)	8.993	8.991	0.002	2136915011	238.342	238
10 Aroclor 1260 (2)	9.439	9.438	0.001	1472806658	221.509	222
11 Aroclor 1260 (3)	9.718	9.717	0.001	1236895119	227.287	227
12 Aroclor 1260 (4)	10.790	10.788	0.002	434544503	222.849	223
13 Aroclor 1260 (5)	11.075	11.074	0.001	864884096	266.852	267
§ 56 Decachlorobiphenyl	11.604	11.603	0.001	12699273743	124.918	125



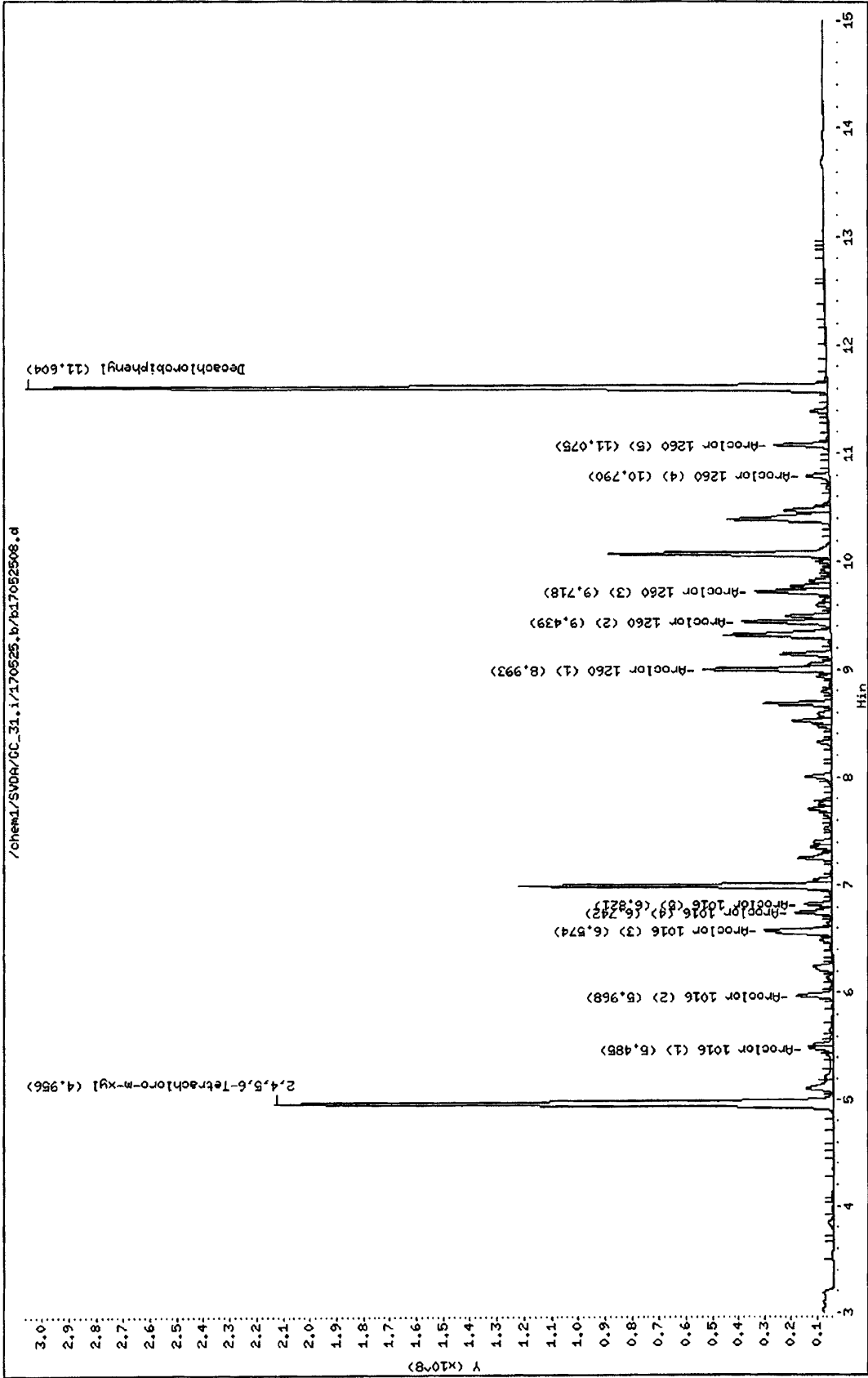
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Date : 25-MAY-2017 11:00  
Client ID:  
Sample Info: LCS 170523L13

Instrument: GC\_31.i

Operator: 944

Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052512.d  
 Report Date: 25-May-2017 12:39

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EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170525.b/b17052512.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 12:15  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : MS 17-05-1776-22  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170525.b/b8082-n2.m  
 Meth Date : 25-May-2017 11:21 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 12  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

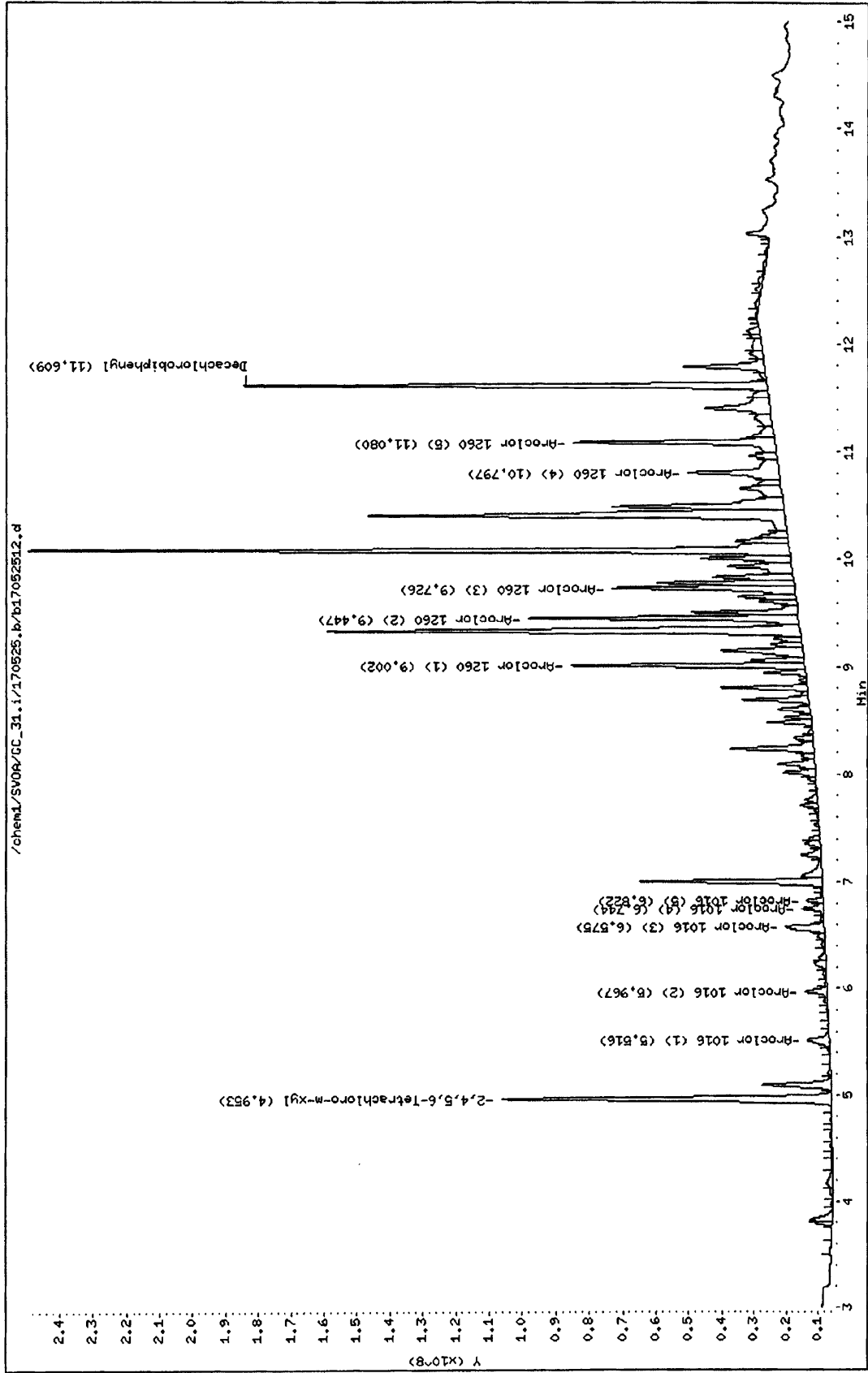
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL ( ug/L)
\$ 1 2,4,5,6-Tetrachloro-m-xylene	4.953	4.953	0.000	5388869366	53.5299	53.5
M 2 Aroclor-1016				2346191426	134.179	134
3 Aroclor 1016 (1)	5.516	5.480	0.036	545999751	310.196	310
4 Aroclor 1016 (2)	5.967	5.964	0.003	381862229	119.470	119
5 Aroclor 1016 (3)	6.575	6.571	0.004	822436756	111.036	111
6 Aroclor 1016 (4)	6.744	6.739	0.005	359258983	114.062	114
7 Aroclor 1016 (5)	6.822	6.818	0.004	236633704	119.970	120
M 8 Aroclor-1260				14562335801	554.804	555
9 Aroclor 1260 (1)	9.002	8.991	0.011	2997625508	334.342	334
10 Aroclor 1260 (2)	9.447	9.438	0.009	3663843666	551.039	551
11 Aroclor 1260 (3)	9.726	9.717	0.009	2560046100	470.424	470
12 Aroclor 1260 (4)	10.797	10.788	0.009	2266171735	1162.17	1160
13 Aroclor 1260 (5)	11.080	11.074	0.006	3074648791	948.655	949
\$ 56 Decachlorobiphenyl	11.609	11.603	0.006	6507620989	64.0128	64.0



Data File: /chem1/SV0A/GC\_31.i/170525.b/b17052512.d  
Date : 25-MAY-2017 12:15  
Client ID:  
Sample Info: MS 17-05-1776-22

Instrument: GC\_31.i  
Operator: 944  
Column diameter: 2.00

Column phase:



Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052513.d  
 Report Date: 25-May-2017 12:57

Page 1

## Eurofins Calscience

## EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170525.b/b17052513.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 12:34  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : MSD17-05-1776-22  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170525.b/b8082-n2.m  
 Meth Date : 25-May-2017 11:21 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 13  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ppb)	FINAL ( ug/L)
§ 1 2,4,5,6-Tetrachloro-m-xylene	4.952	4.953	-0.001	5300187073	52.6490	52.6
M 2 Aroclor-1016				2366333267	135.331	135
3 Aroclor 1016 (1)	5.514	5.480	0.034	594573660	337.792	338
4 Aroclor 1016 (2)	5.968	5.964	0.004	367008278	114.823	115
5 Aroclor 1016 (3)	6.575	6.571	0.004	803697611	108.506	108
6 Aroclor 1016 (4)	6.744	6.739	0.005	357930942	113.640	114
7 Aroclor 1016 (5)	6.822	6.818	0.004	243122774	123.260	123
M 8 Aroclor-1260				14155716220	539.312	539
9 Aroclor 1260 (1)	9.003	8.991	0.012	2979570905	332.329	332
10 Aroclor 1260 (2)	9.447	9.438	0.009	3641906900	547.739	548
11 Aroclor 1260 (3)	9.725	9.717	0.008	2528826200	464.687	465
12 Aroclor 1260 (4)	10.797	10.788	0.009	2099062804	1076.47	1080
13 Aroclor 1260 (5)	11.081	11.074	0.007	2906349412	896.727	897
§ 56 Decachlorobiphenyl	11.609	11.603	0.006	6492600780	63.8650	63.9

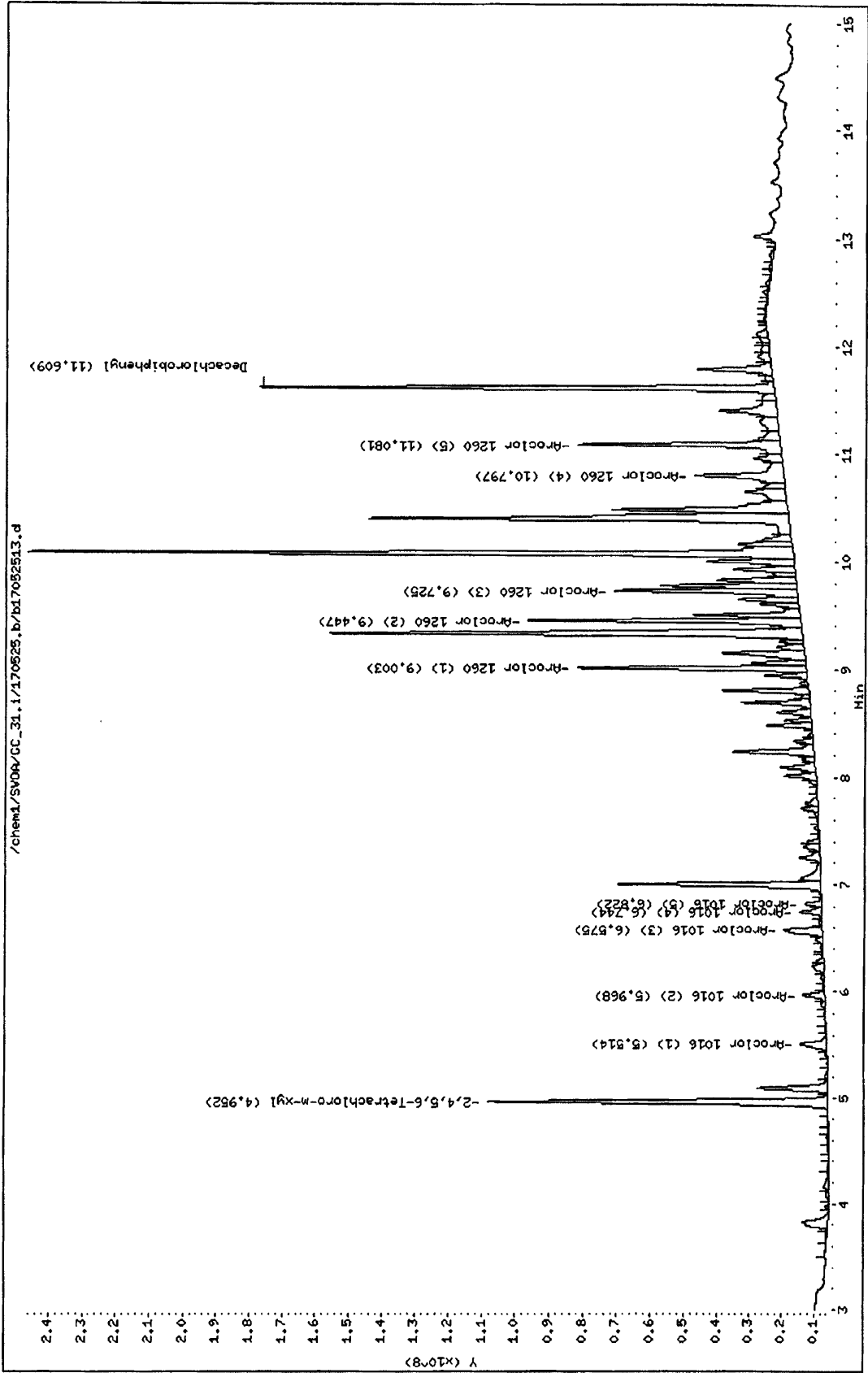
Data File: /chem1/SV0A/GC\_31.i/170525.b/b17052513.d  
Date: 25-MAY-2017 12:34  
Client ID:  
Sample Info: MSD17-05-1776-22

Instrument: GC\_31.i

Operator: 944

Column diameter: 2.00

Column phase:





# EPA METHOD 8082 PCB

## Continuing Calibration

CCV ASSOCIATION SUMMARY  
FOR METHOD: EPA 8082

BATCH ID: 170525A003  
INSTRUMENT: GC 31

ANALYZED BY: 944

WORK ORDER: 099-15-958  
MATRIX: Soil

REVIEWED BY: 27  
D/T REVIEWED: 2017-05-25 13:27

<u>CEL SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>D/T ANALYZED</u>	<u>DATA FILE</u>
424	Daily Calibration	2017-05-25 09:27	/chem1/SVOA/GC_31/170525/b1705250117052501

WORK ORDER: 17-05-1776  
MATRIX: Soil

REVIEWED BY: 27  
D/T REVIEWED: 2017-05-26 18:21

<u>CEL SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>D/T ANALYZED</u>	<u>DATA FILE</u>
21	TP-S010	2017-05-25 11:37	/chem1/SVOA/GC_31/170525/b1705251017052510
22	TP-S011	2017-05-25 11:56	/chem1/SVOA/GC_31/170525/b1705251117052511
22	TP-S011	2017-05-25 12:15	/chem1/SVOA/GC_31/170525/b1705251217052512
22	TP-S011	2017-05-25 12:34	/chem1/SVOA/GC_31/170525/b1705251317052513

# CONTINUING CALIBRATION VERIFICATION QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**CCV WORK ORDER:** 099-15-958-424-6572

**ANALYZED BY:** 944

**BATCH ID:**

**D/T ANALYZED:**

170519I001  
170525A003  
GC 31

2017-05-19 11:53  
2017-05-25 09:27

**INITIAL:**  
**CCV:**

**REVIEWED BY:**  
**D/T REVIEWED:**

M

**DATA FILE:** /chem1/SVOA/GC\_31/170525/b1705250117052501

<u>COMPOUND NAME</u>	<u>TYPE</u>	<u>CALIB MODEL</u>	<u>MIN RF</u>	<u>AVG RF</u>	<u>CCV RF</u>	<u>AMOUNT</u>	<u>CCV CONC</u>	<u>CCV %D</u>	<u>CCV %D CL</u>	<u>STATUS</u>
Aroclor-1016	C	Avg Resp	0.00	17485545.465	16992767.536			3	0-15	PASS
Aroclor-1260	C	Avg Resp	0.00	26247714.113	26399545.682			-1	0-15	PASS

MIN RF: Method Specified Minimum Response Factor



Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052501.d  
 Report Date: 25-May-2017 11:21

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Eurofins Calscience

EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170525.b/b17052501.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 09:27  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : PCB CCV P051717I  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170525.b/b8082-n2.m  
 Meth Date : 25-May-2017 11:21 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 1 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
S 1 2,4,5,6-Tetrachloro-m-xylene	4.953	4.953	0.000	10210624667	100.000	101
M 2 Aroclor-1016				8496383768	500.000	486
3 Aroclor 1016 (1)	5.480	5.480	0.000	856280886	500.000	486
4 Aroclor 1016 (2)	5.964	5.964	0.000	1546576520	500.000	484
5 Aroclor 1016 (3)	6.571	6.571	0.000	3598847901	500.000	486
6 Aroclor 1016 (4)	6.739	6.739	0.000	1536088406	500.000	488
7 Aroclor 1016 (5)	6.818	6.818	0.000	958590055	500.000	486
M 8 Aroclor-1260				13199772841	500.000	503
9 Aroclor 1260 (1)	8.991	8.991	0.000	4410424640	500.000	492
10 Aroclor 1260 (2)	9.438	9.438	0.000	3307422499	500.000	497
11 Aroclor 1260 (3)	9.717	9.717	0.000	2702757700	500.000	497
12 Aroclor 1260 (4)	10.788	10.788	0.000	950785886	500.000	488
13 Aroclor 1260 (5)	11.074	11.074	0.000	1828382116	500.000	564
S 56 Decachlorobiphenyl	11.603	11.603	0.000	11455913354	100.000	113



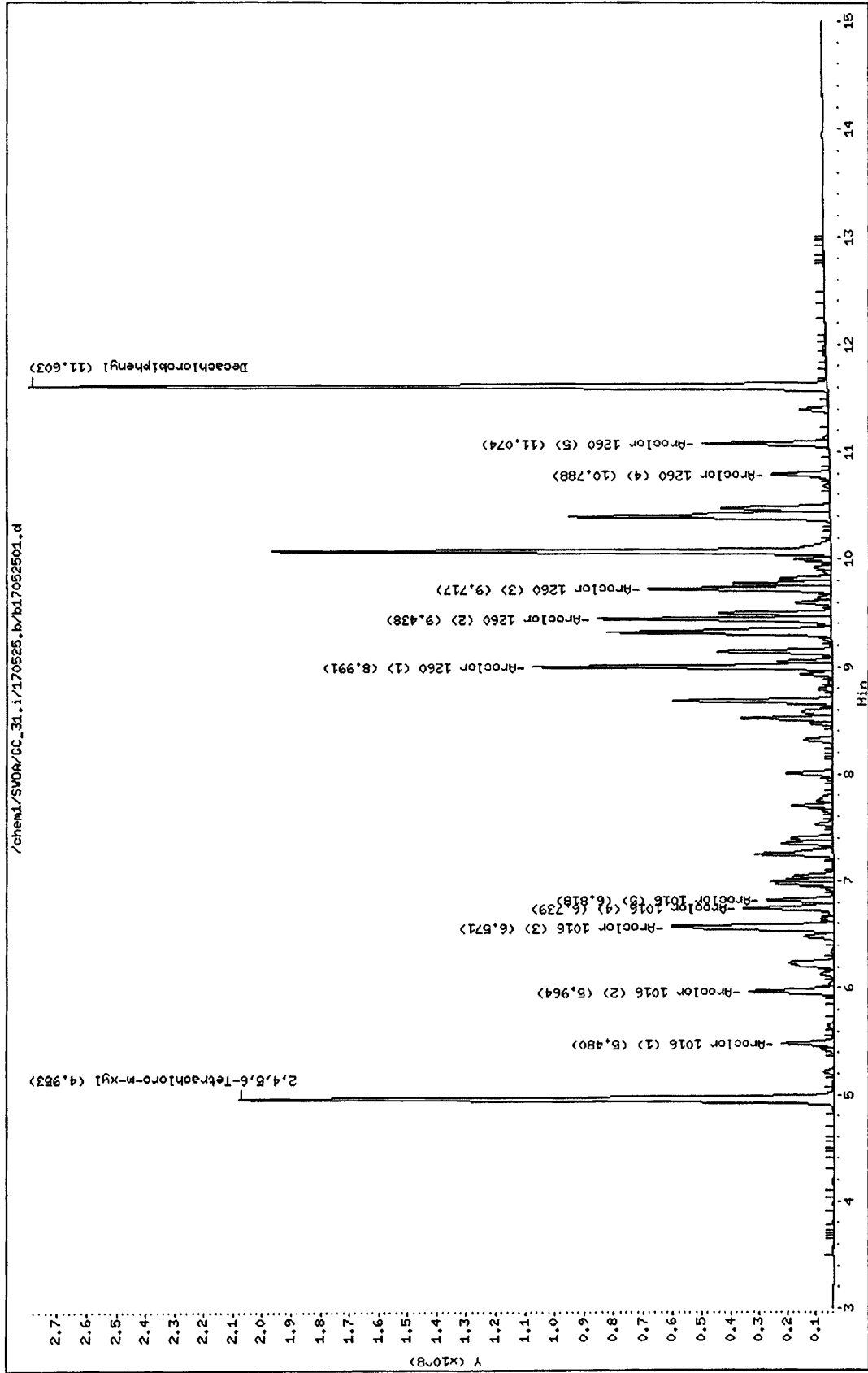
Data File: /chem1/SV04/CC\_31.i/170525.b/k17052501.d  
Date : 25-MAY-2017 09:27  
Client ID:  
Sample Info: PCB CCV P0517171

Instrument: GC\_31.i

Operator: 944

Column diameter: 2.00

Column phase:



**CONTINUING CALIBRATION VERIFICATION QUALITY CONTROL SHEET  
FOR METHOD: EPA 8082**

**CCV WORK ORDER:** 099-15-958-425-6572

**BATCH ID:**

170519I001  
170525A004  
GC 31

**ANALYZED BY:** 944

**D/T ANALYZED:**

INITIAL: 2017-05-19 11:53  
CCV: 2017-05-25 17:14  
REVIEWED BY: 27  
D/T REVIEWED: 2017-05-26 10:47

**DATA FILE:** /chem1/SVOA/GC\_31/170525/b1705252117052521

<u>COMPOUND NAME</u>	<u>TYPE</u>	<u>CALIB MODEL</u>	<u>MIN RF</u>	<u>AVG RF</u>	<u>CCV RF</u>	<u>AMOUNT</u>	<u>CCV CONC</u>	<u>CCV %D</u>	<u>CCV %D CL</u>	<u>STATUS</u>
Aroclor-1016	C	Avg Resp	0.00	17485545.465	16827878.792			4	0-15	PASS
Aroclor-1260	C	Avg Resp	0.00	26247714.113	25149068.442			4	0-15	PASS

**MIN RF: Method Specified Minimum Response Factor**





Data File: /chem1/SVOA/GC\_31.i/170525.b/b17052521.d  
 Report Date: 26-May-2017 09:40

Page 1

Eurofins Calscience

EPA8082/A PCB analysis

Data file : /chem1/SVOA/GC\_31.i/170525.b/b17052521.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 17:14  
 Operator : 944 Inst ID: GC\_31.i  
 Smp Info : PCB CCV P051717I  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_31.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 09:40 src3 Quant Type: ESTD  
 Cal Date : 19-MAY-2017 14:44 Cal File: b17051910.d  
 Als bottle: 21 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
\$ 1 2,4,5,6-Tetrachloro-m-xylene	4.951	4.951	0.000	10198989517	100.000	101
M 2 Aroclor-1016				8413939396	500.000	481
3 Aroclor 1016 (1)	5.480	5.480	0.000	849150414	500.000	482
4 Aroclor 1016 (2)	5.965	5.965	0.000	1541759997	500.000	482
5 Aroclor 1016 (3)	6.573	6.573	0.000	3567541654	500.000	482
6 Aroclor 1016 (4)	6.741	6.741	0.000	1516903242	500.000	482
7 Aroclor 1016 (5)	6.819	6.819	0.000	938584089	500.000	476
M 8 Aroclor-1260				12574534221	500.000	479
9 Aroclor 1260 (1)	8.994	8.994	0.000	4296166095	500.000	479
10 Aroclor 1260 (2)	9.440	9.440	0.000	3197346611	500.000	481
11 Aroclor 1260 (3)	9.720	9.720	0.000	2585507754	500.000	475
12 Aroclor 1260 (4)	10.789	10.789	0.000	854947128	500.000	438
13 Aroclor 1260 (5)	11.076	11.076	0.000	1640566632	500.000	506
\$ 56 Decachlorobiphenyl	11.604	11.604	0.000	9723908158	100.000	95.6

Data File: /chem1/SV00A/GC\_31.i/170525.b/b17052521.d

Date : 25-MAY-2017 17:14

Client ID:

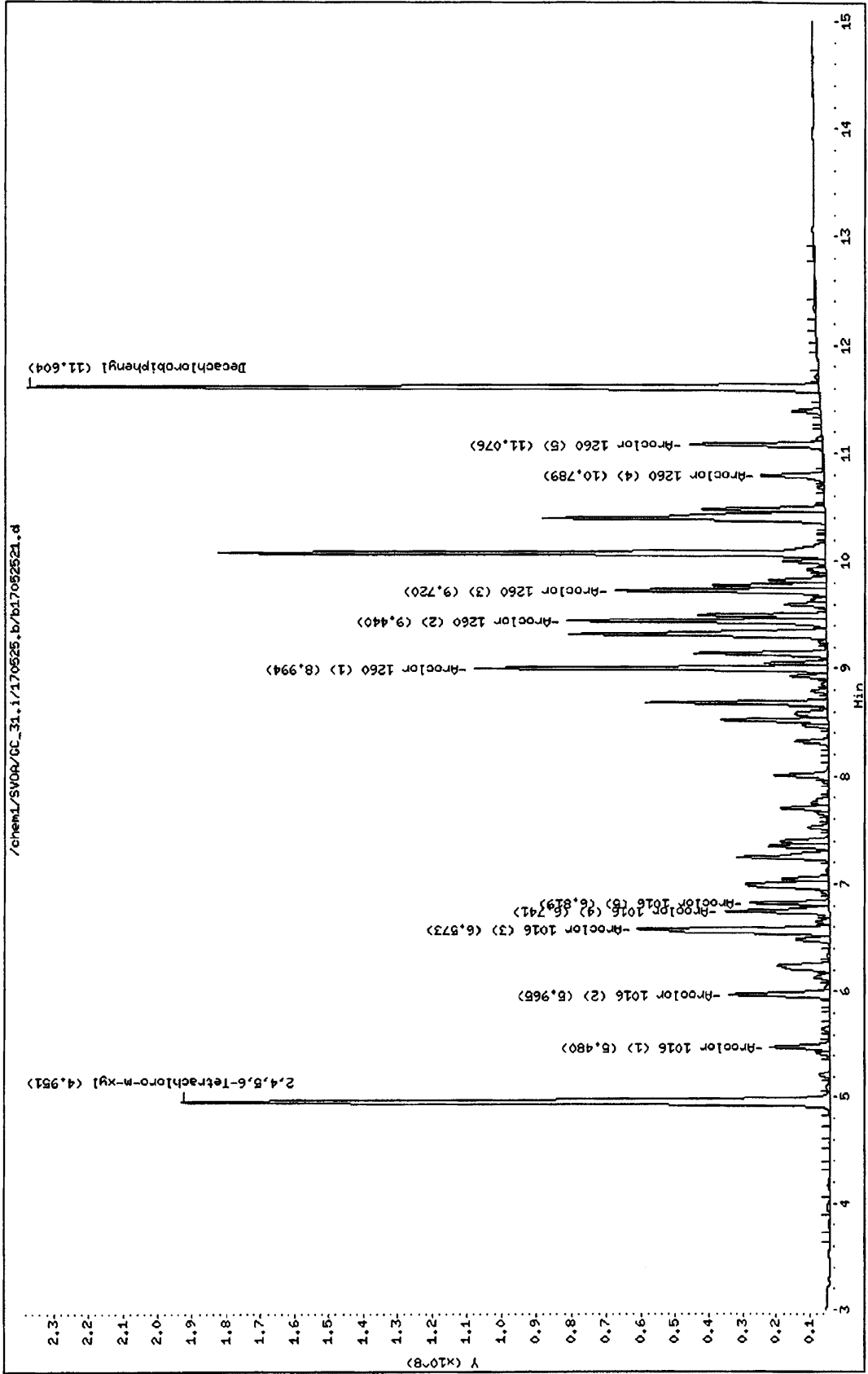
Sample Info: PCB CCV P0517171

Instrument: GC\_31.i

Operator: 944

Column diameter: 2.00

Column phase:



# CONTINUING CALIBRATION VERIFICATION QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**CCV WORK ORDER:** 099-15-958-428-6572

**ANALYZED BY:** 944

**BATCH ID:**  
INITIAL: 170523I001  
CCV: 170525A006  
INSTRUMENT: GC 58

D/T ANALYZED:  
INITIAL: 2017-05-23 16:52  
CCV: 2017-05-25 15:54  
REVIEWED BY: 27  
D/T REVIEWED: 2017-05-26 13:15

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705252217052522

<u>COMPOUND NAME</u>	<u>TYPE</u>	<u>CALIB MODEL</u>	<u>MIN RF</u>	<u>AVG RF</u>	<u>CCV RF</u>	<u>AMOUNT</u>	<u>CCV CONC</u>	<u>CCV %D</u>	<u>CCV %D CL</u>	<u>STATUS</u>
Aroclor-1016	C	Avg Resp	0.00	11506630.029	10377546.182			10	0-15	PASS
Aroclor-1260	C	Avg Resp	0.00	11537050.448	11010187.402			5	0-15	PASS

**MIN RF:** Method Specified Minimum Response Factor



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052522.d  
 Report Date: 05/25/2017 16:26

Eurofins CalScience  
 Calibration Verification Report

Instrument ID: GC\_58.i                      Injection Date and Time: 25-MAY-2017 15:54  
 Sample Name: PCB CCV 500 PPB P051717I      Initial Calibration Date(s): 04-OCT-2016 23-MAY-2017  
 Sublist used: pl016\_1260.sub              Initial Calibration Time(s): 21:49 19:33  
 Method used: /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
Aroclor-1016	11506630.029	10377546.181	0.01	10	15	Averaged
Aroclor 1016 (1)	1122906.647	1004130.584	0.01	11	15	Averaged
Aroclor 1016 (2)	2104568.955	1894596.492	0.01	10	15	Averaged
Aroclor 1016 (3)	4720545.338	4310223.171	0.01	9	15	Averaged
Aroclor 1016 (4)	1985806.908	1766226.240	0.01	11	15	Averaged
Aroclor 1016 (5)	1572802.181	1402369.694	0.01	11	15	Averaged
Aroclor 1260 (4)	810360.902	809635.506	0.01	0	15	Averaged
Aroclor-1260	11537050.448	11010187.402	0.01	5	15	Averaged
Aroclor 1260 (5)	1850172.206	1891778.560	0.01	-2	15	Averaged
Aroclor 1260 (1)	3449997.793	3211723.702	0.01	7	15	Averaged
Aroclor 1260 (2)	2560223.179	2403184.346	0.01	6	15	Averaged
Aroclor 1260 (3)	2866296.368	2693865.288	0.01	6	15	Averaged
Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
2,4,5,6-Tetrachloro-m-xylene	63384724.500	58934319.529	0.01	7	15	Averaged
Decachlorobiphenyl	62437904.300	62589569.921	0.01	0	15	Averaged

page 1

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052522.d  
 Report Date: 25-May-2017 16:25

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## Eurofins Calscience

## EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052522.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 15:54  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB CCV 500 PPB P051717I  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 25-May-2017 16:25 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 22 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.744	4.740	0.004	5893431953	100.000	93.0
M 2 Aroclor-1016				5188773091	500.000	451
3 Aroclor 1016 (1)	5.454	5.451	0.003	502065292	500.000	447
4 Aroclor 1016 (2)	5.998	5.996	0.002	947298246	500.000	450
5 Aroclor 1016 (3)	6.581	6.580	0.001	2155111586	500.000	456
6 Aroclor 1016 (4)	6.751	6.750	0.001	883113120	500.000	445
7 Aroclor 1016 (5)	6.878	6.877	0.001	701184847	500.000	446
M 8 Aroclor-1260				5505093701	500.000	477
9 Aroclor 1260 (1)	9.055	9.057	-0.002	1605861851	500.000	465
10 Aroclor 1260 (2)	9.567	9.569	-0.002	1201592173	500.000	469
11 Aroclor 1260 (3)	9.905	9.908	-0.003	1346932644	500.000	470
12 Aroclor 1260 (4)	11.075	11.081	-0.006	404817753	500.000	500
13 Aroclor 1260 (5)	11.256	11.263	-0.007	945889280	500.000	511
T 56 Decachlorobiphenyl	11.916	11.920	-0.004	6258956992	100.000	100

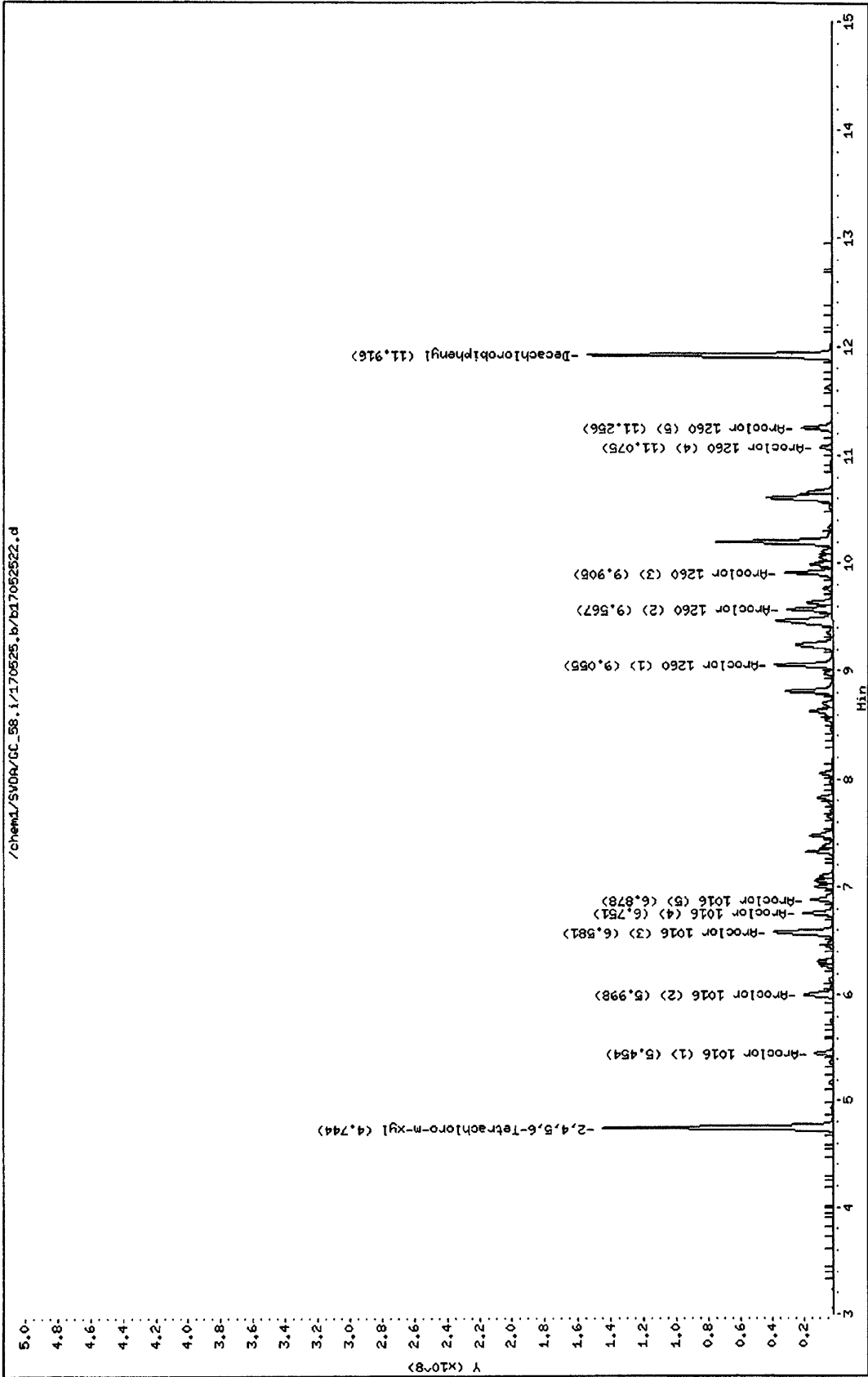
Data File: /chem1/SV04/GC\_58.i/170525.b/17052522.d  
Date : 25-MAY-2017 15:54  
Client ID:  
Sample Info: PCB CCV 500 PPB P0517171

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



**CCV ASSOCIATION SUMMARY  
FOR METHOD: EPA 8082**

**BATCH ID:** 170525A007  
**INSTRUMENT:** GC 58

**ANALYZED BY:** 944

**WORK ORDER:** 099-15-958  
**MATRIX:** Soil

**REVIEWED BY:** 27  
**D/T REVIEWED:** 2017-05-26 18:14

<u>CEL SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>D/T ANALYZED</u>	<u>DATA FILE</u>
429	Daily Calibration	2017-05-25 19:32	/chem1/SVOA/GC_58/170525/b1705253017052530

**WORK ORDER:** 17-05-1776  
**MATRIX:** Soil

**REVIEWED BY:** 27  
**D/T REVIEWED:** 2017-05-26 18:21

<u>CEL SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>D/T ANALYZED</u>	<u>DATA FILE</u>
1	DDP-S001	2017-05-25 19:50	/chem1/SVOA/GC_58/170525/b1705253117052531
2	DDP-S002	2017-05-25 20:08	/chem1/SVOA/GC_58/170525/b1705253217052532
3	DDP-S003	2017-05-25 20:26	/chem1/SVOA/GC_58/170525/b1705253317052533
4	DDP-S004	2017-05-25 20:44	/chem1/SVOA/GC_58/170525/b1705253417052534
5	DDP-S005	2017-05-25 21:02	/chem1/SVOA/GC_58/170525/b1705253517052535
6	DDP-S006	2017-05-25 21:20	/chem1/SVOA/GC_58/170525/b1705253617052536
7	DDP-S007	2017-05-25 21:38	/chem1/SVOA/GC_58/170525/b1705253717052537
8	DDP-S008	2017-05-25 21:56	/chem1/SVOA/GC_58/170525/b1705253817052538
9	DDP-S009	2017-05-25 22:14	/chem1/SVOA/GC_58/170525/b1705253917052539
11	DDP-S011	2017-05-25 22:50	/chem1/SVOA/GC_58/170525/b1705254117052541
13	TP-S002	2017-05-25 23:25	/chem1/SVOA/GC_58/170525/b1705254317052543
14	TP-S003	2017-05-25 23:43	/chem1/SVOA/GC_58/170525/b1705254417052544
15	TP-S004	2017-05-26 00:01	/chem1/SVOA/GC_58/170525/b1705254517052545
16	TP-S005	2017-05-26 00:19	/chem1/SVOA/GC_58/170525/b1705254617052546
17	TP-S006	2017-05-26 00:37	/chem1/SVOA/GC_58/170525/b1705254717052547
18	TP-S007	2017-05-26 00:55	/chem1/SVOA/GC_58/170525/b1705254817052548
19	TP-S008	2017-05-26 01:13	/chem1/SVOA/GC_58/170525/b1705254917052549
20	TP-S009	2017-05-26 01:31	/chem1/SVOA/GC_58/170525/b1705255017052550

Return to Contents 

# CONTINUING CALIBRATION VERIFICATION QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**CCV WORK ORDER:** 099-15-958-429-6572

**BATCH ID:**

1705231001

170525A007

**INSTRUMENT:**

GC 58

**ANALYZED BY:** 944

**D/T ANALYZED:**

INITIAL:

2017-05-23 16:52

CCV:

2017-05-25 19:32

**REVIEWED BY:**

**D/T REVIEWED:**

*u*

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705253017052530

COMPOUND NAME	TYPE	CALIB MODEL	MIN RF	AVG RF	CCV RF	AMOUNT	CCV CONC	CCV %D	CCV %D CL	STATUS
Aroclor-1016	C	Avg Resp	0.00	11506630.029	11092041.794			4	0-15	PASS
Aroclor-1260	C	Avg Resp	0.00	11537050.448	12278420.830			-6	0-15	PASS

MIN RF: Method Specified Minimum Response Factor



Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052530.d  
 Report Date: 05/26/2017 10:04

Eurofins CalScience  
 Calibration Verification Report

Instrument ID: GC\_58.i                      Injection Date and Time: 25-MAY-2017 19:32  
 Sample Name: PCB CCV 500 PPB P051717I      Initial Calibration Date(s): 04-OCT-2016 23-MAY-2017  
 Sublist used: p1016\_1260.sub              Initial Calibration Time(s): 21:49 19:33  
 Method used: /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
Aroclor-1016	11506630.029	11092041.794	0.01	4	15	Averaged
Aroclor 1016 (1)	1122906.647	1068488.020	0.01	5	15	Averaged
Aroclor 1016 (2)	2104568.955	2013888.574	0.01	4	15	Averaged
Aroclor 1016 (3)	4720545.338	4609452.364	0.01	2	15	Averaged
Aroclor 1016 (4)	1985806.908	1894233.966	0.01	5	15	Averaged
Aroclor 1016 (5)	1572802.181	1505978.870	0.01	4	15	Averaged
Aroclor 1260 (4)	810360.902	869366.946	0.01	-7	15	Averaged
Aroclor-1260	11537050.448	12278420.830	0.01	-6	15	Averaged
Aroclor 1260 (5)	1850172.206	2113160.224	0.01	-14	15	Averaged
Aroclor 1260 (1)	3449997.793	3570330.876	0.01	-3	15	Averaged
Aroclor 1260 (2)	2560223.179	2711913.496	0.01	-6	15	Averaged
Aroclor 1260 (3)	2866296.368	3013649.288	0.01	-5	15	Averaged
Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D / Drift	Curve Type
2,4,5,6-Tetrachloro-m-xylene	63384724.500	62297383.686	0.01	2	15	Averaged
Decachlorobiphenyl	62437904.300	70436340.625	0.01	-13	15	Averaged

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052530.d  
 Report Date: 26-May-2017 10:04

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052530.d  
 Lab Smp Id:  
 Inj Date : 25-MAY-2017 19:32  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB CCV 500 PPB P051717I  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 30 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.743	4.740	0.003	6229738369	100.000	98.3
M 2 Aroclor-1016				5546020897	500.000	482
3 Aroclor 1016 (1)	5.454	5.451	0.003	534244010	500.000	476
4 Aroclor 1016 (2)	5.998	5.996	0.002	1006944287	500.000	478
5 Aroclor 1016 (3)	6.581	6.580	0.001	2304726182	500.000	488
6 Aroclor 1016 (4)	6.751	6.750	0.001	947116983	500.000	477
7 Aroclor 1016 (5)	6.878	6.877	0.001	752989435	500.000	479
M 8 Aroclor-1260				6139210415	500.000	532
9 Aroclor 1260 (1)	9.055	9.057	-0.002	1785165438	500.000	517
10 Aroclor 1260 (2)	9.568	9.569	-0.001	1355956748	500.000	530
11 Aroclor 1260 (3)	9.905	9.908	-0.003	1506824644	500.000	526
12 Aroclor 1260 (4)	11.075	11.081	-0.006	434683473	500.000	536
13 Aroclor 1260 (5)	11.256	11.263	-0.007	1056580112	500.000	571
T 56 Decachlorobiphenyl	11.916	11.920	-0.004	7043634063	100.000	113

Data File: /chem1/SV00R/GC\_58.i/170525.b/b17052530.d

Date : 25-MAY-2017 19:32

Client ID:

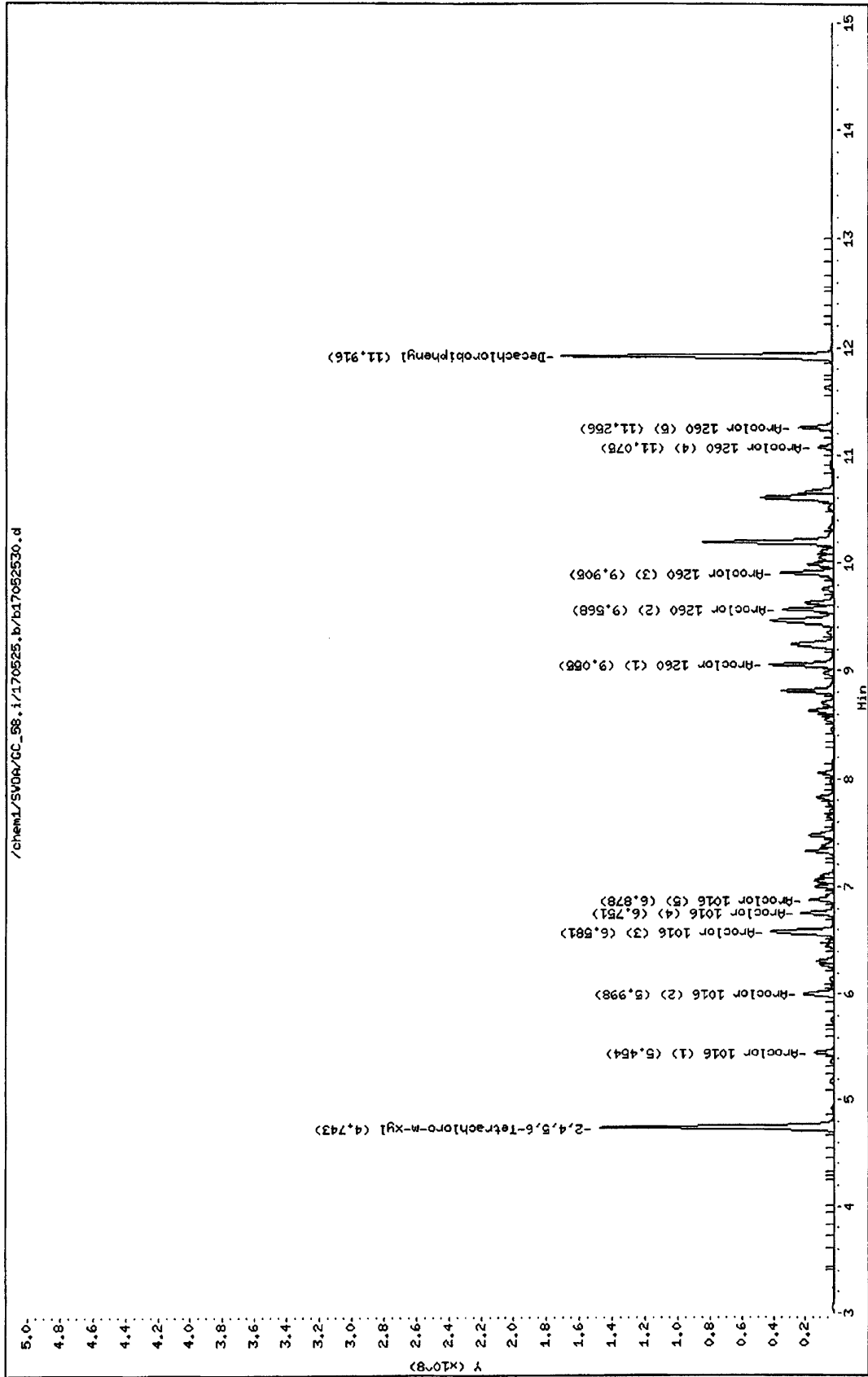
Sample Info: PCB CCV 500 PP8 P0517171

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



# CONTINUING CALIBRATION VERIFICATION QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**CCV WORK ORDER:** 099-15-958-461-6572

**ANALYZED BY:** 669

**BATCH ID:**  
INITIAL: 170523I001  
CCV: 170525A081  
INSTRUMENT: GC 58

D/T ANALYZED:  
INITIAL: 2017-05-23 16:52  
CCV: 2017-05-26 01:49  
REVIEWED BY:  
D/T REVIEWED:

**DATA FILE:** /chem1/SVOA/GC\_58/170525/b1705255117052551

<u>COMPOUND NAME</u>	<u>TYPE</u>	<u>CALIB MODEL</u>	<u>MIN RF</u>	<u>AVG RF</u>	<u>CCV RF</u>	<u>AMOUNT</u>	<u>CCV CONC</u>	<u>CCV %D</u>	<u>CCV %D CL</u>	<u>STATUS</u>
Atoclor-1016	C	Avg Resp	0.00	11506630.029	10209189.496			11	0-15	PASS
Atoclor-1260	C	Avg Resp	0.00	11537050.448	10854671.250			6	0-15	PASS

MIN RF: Method Specified Minimum Response Factor

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052551.d  
 Report Date: 05/26/2017 10:04

Eurofins CalScience  
 Calibration Verification Report

Instrument ID: GC\_58.i                      Injection Date and Time: 26-MAY-2017 01:49  
 Sample Name: PCB CCV 500 PPB P051717I      Initial Calibration Date(s): 04-OCT-2016 23-MAY-2017  
 Sublist used: p1016\_1260.sub              Initial Calibration Time(s): 21:49 19:33  
 Method used: /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D /Drift	Curve Type
Aroclor-1016	11506630.029	10209189.496	0.01	11	15	Averaged
Aroclor 1016 (1)	1122906.647	1026177.872	0.01	9	15	Averaged
Aroclor 1016 (2)	2104568.955	1938489.816	0.01	8	15	Averaged
Aroclor 1016 (3)	4720545.338	4370767.966	0.01	7	15	Averaged
Aroclor 1016 (4)	1985806.908	1753052.812	0.01	12	15	Averaged
Aroclor 1016 (5)	1572802.181	1120701.030	0.01	29	15	Averaged
Aroclor 1260 (4)	810360.902	833687.828	0.01	-3	15	Averaged
Aroclor-1260	11537050.448	10854671.250	0.01	6	15	Averaged
Aroclor 1260 (5)	1850172.206	1943655.414	0.01	-5	15	Averaged
Aroclor 1260 (1)	3449997.793	3079698.312	0.01	11	15	Averaged
Aroclor 1260 (2)	2560223.179	2347170.932	0.01	8	15	Averaged
Aroclor 1260 (3)	2866296.368	2650458.764	0.01	8	15	Averaged
Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D /Drift	Curve Type
2,4,5,6-Tetrachloro-m-xylene	63384724.500	60957859.794	0.01	4	15	Averaged
Decachlorobiphenyl	62437904.300	65568664.116	0.01	-5	15	Averaged

<-Failed

Data File: /chem1/SVOA/GC\_58.i/170525.b/b17052551.d  
 Report Date: 26-May-2017 10:04

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170525.b/b17052551.d  
 Lab Smp Id:  
 Inj Date : 26-MAY-2017 01:49  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB CCV 500 PPB P051717I  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170525.b/b8082-n2.m  
 Meth Date : 26-May-2017 10:04 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 51 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

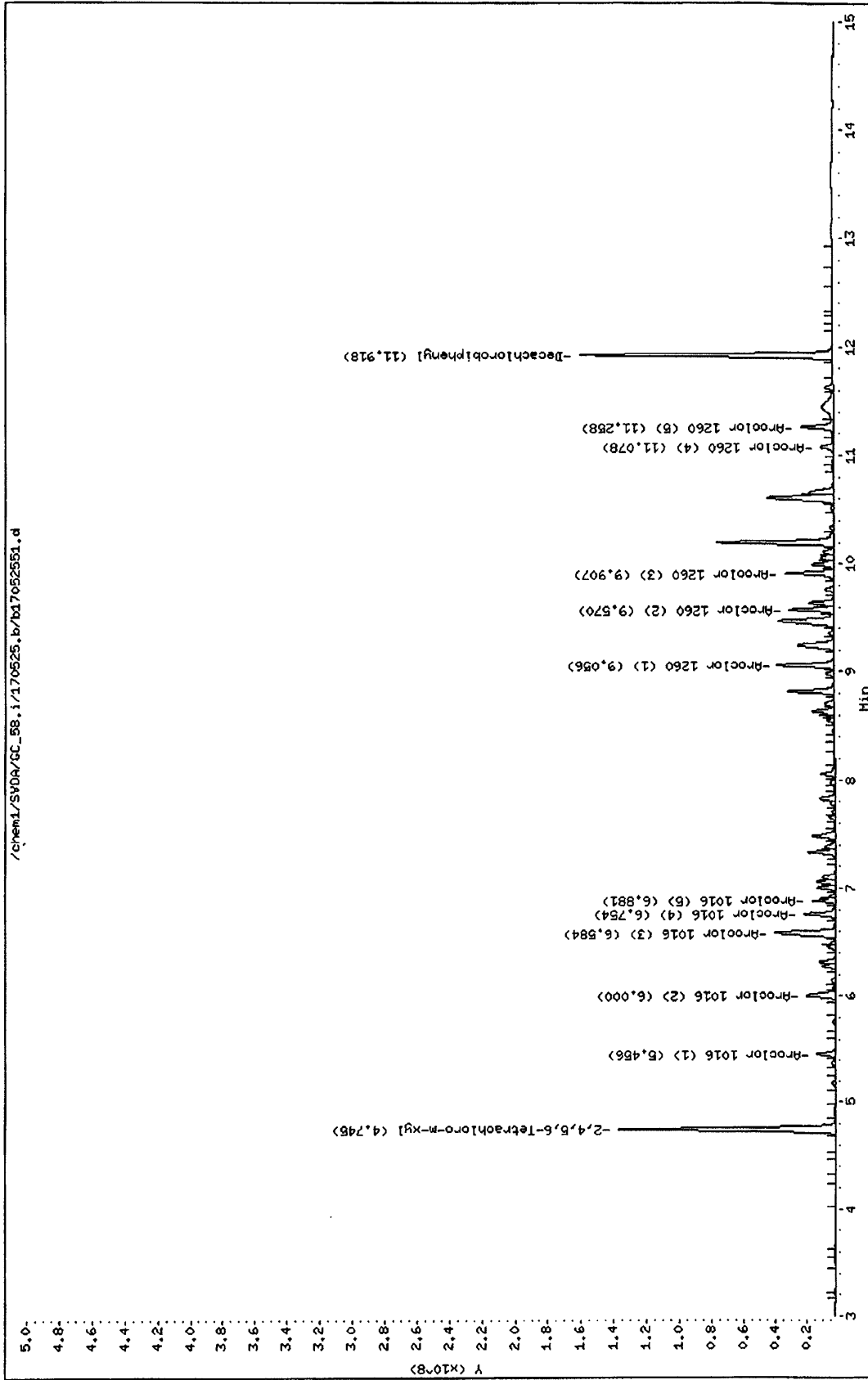
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.745	4.740	0.005	6095785979	100.000	96.2
M 2 Aroclor-1016				5104594748	500.000	444
3 Aroclor 1016 (1)	5.456	5.452	0.004	513088936	500.000	457
4 Aroclor 1016 (2)	6.000	5.996	0.004	969244908	500.000	460
5 Aroclor 1016 (3)	6.584	6.580	0.004	2185383983	500.000	463
6 Aroclor 1016 (4)	6.754	6.750	0.004	876526406	500.000	441
7 Aroclor 1016 (5)	6.881	6.877	0.004	560350515	500.000	356
M 8 Aroclor-1260				5427335625	500.000	470
9 Aroclor 1260 (1)	9.056	9.057	-0.001	1539849156	500.000	446
10 Aroclor 1260 (2)	9.570	9.570	0.000	1173585466	500.000	458
11 Aroclor 1260 (3)	9.907	9.908	-0.001	1325229382	500.000	462
12 Aroclor 1260 (4)	11.078	11.081	-0.003	416843914	500.000	514
13 Aroclor 1260 (5)	11.258	11.264	-0.006	971827707	500.000	525
T 56 Decachlorobiphenyl	11.918	11.920	-0.002	6556866412	100.000	105

Data File: /chem1/SVDA/GC\_58.i/170525.b/b17052551.d  
Date : 26-MAY-2017 01:49  
Client ID:  
Sample Info: PCB CCV 500 PPB P0517171

Instrument: GC\_58.i  
Operator: 944  
Column diameter: 2.00

Column phase:



**CCV ASSOCIATION SUMMARY  
FOR METHOD: EPA 8082**

**BATCH ID:** 170526A006  
**INSTRUMENT:** GC 58

**ANALYZED BY:** 944

**WORK ORDER:** 099-15-958  
**MATRIX:** Soil

**REVIEWED BY:** 27  
**D/T REVIEWED:** 2017-05-26 18:14

<u>CEL SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>D/T ANALYZED</u>	<u>DATA FILE</u>
430	Daily Calibration	2017-05-26 15:05	/chem1/SVOA/GC_58/170526/b1705261217052612

**WORK ORDER:** 17-05-1776  
**MATRIX:** Soil

**REVIEWED BY:** 421  
**D/T REVIEWED:** 2017-06-22 13:31

<u>CEL SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>D/T ANALYZED</u>	<u>DATA FILE</u>
10	DDP-S010	2017-05-26 16:52	/chem1/SVOA/GC_58/170526/b1705261817052618
12	TP-S001	2017-05-26 17:10	/chem1/SVOA/GC_58/170526/b1705261917052619



# CONTINUING CALIBRATION VERIFICATION QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**CCV WORK ORDER:** 099-15-958-430-6572

**BATCH ID:**

1705231001  
170526A006  
GC 58

**ANALYZED BY:** 944

**D/T ANALYZED:**

INITIAL:  
CCV: 2017-05-23 16:52  
2017-05-26 15:05

**REVIEWED BY:**

**D/T REVIEWED:**

*M*

**DATA FILE:** /chem1/SVOA/GC\_58/170526/b1705261217052612

<u>COMPOUND NAME</u>	<u>TYPE</u>	<u>CALIB MODEL</u>	<u>MIN RF</u>	<u>AVG RF</u>	<u>CCV RF</u>	<u>AMOUNT</u>	<u>CCV CONC</u>	<u>CCV %D</u>	<u>CCV %D CL</u>	<u>STATUS</u>
Aroclor-1016	C	Avg Resp	0.00	11506630.029	10794896.404		6	0-15	0-15	PASS
Aroclor-1260	C	Avg Resp	0.00	11537050.448	11525374.538		0	0-15	0-15	PASS

MIN RF: Method Specified Minimum Response Factor



Data File: /chem1/SVOA/GC\_58.i/170526.b/b17052612.d  
 Report Date: 26-May-2017 16:03

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170526.b/b17052612.d  
 Lab Smp Id:  
 Inj Date : 26-MAY-2017 15:05  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB CCV 500 PPB P P051717I  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170526.b/b8082-n2.m  
 Meth Date : 26-May-2017 16:03 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 12 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.746	4.740	0.006	6083817405	100.000	96.0
M 2 Aroclor-1016				5397448202	500.000	469
3 Aroclor 1016 (1)	5.457	5.452	0.005	520679479	500.000	464
4 Aroclor 1016 (2)	6.001	5.997	0.004	982947129	500.000	467
5 Aroclor 1016 (3)	6.584	6.580	0.004	2250229054	500.000	477
6 Aroclor 1016 (4)	6.754	6.750	0.004	916688519	500.000	462
7 Aroclor 1016 (5)	6.881	6.877	0.004	726904021	500.000	462
M 8 Aroclor-1260				5762687269	500.000	499
9 Aroclor 1260 (1)	9.057	9.057	0.000	1660581611	500.000	481
10 Aroclor 1260 (2)	9.569	9.570	-0.001	1259871350	500.000	492
11 Aroclor 1260 (3)	9.907	9.908	-0.001	1401836919	500.000	489
12 Aroclor 1260 (4)	11.077	11.081	-0.004	418799463	500.000	517
13 Aroclor 1260 (5)	11.258	11.263	-0.005	1021597926	500.000	552
T 56 Decachlorobiphenyl	11.917	11.920	-0.003	6916921036	100.000	111

Data File: /chem1/SV0A/GC\_58.i/170526.b/b17052612.d

Date : 26-MAY-2017 15:05

Client ID:

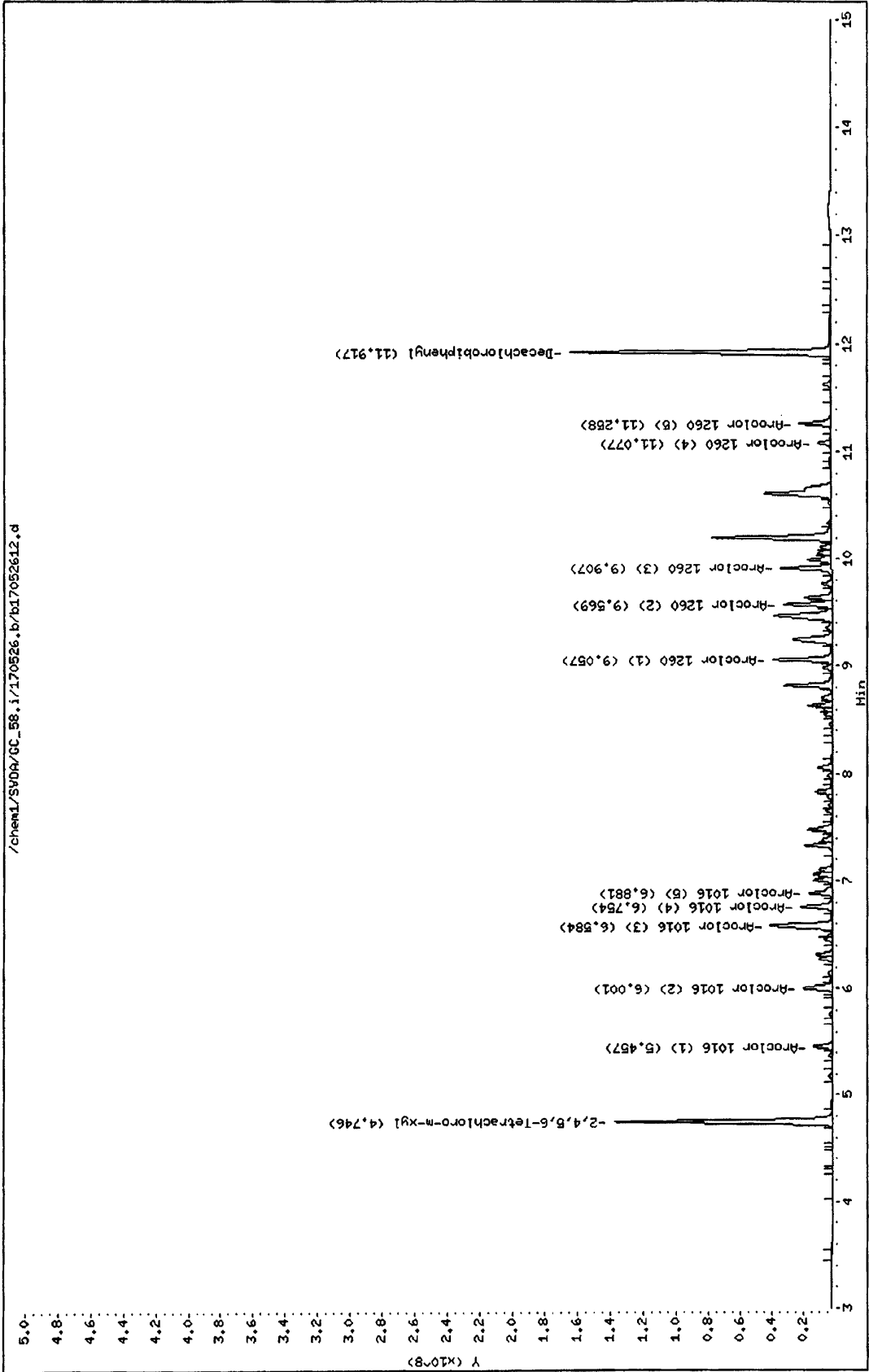
Sample Info: PCB CCV 500 PPB P P0517171

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:



# CONTINUING CALIBRATION VERIFICATION QUALITY CONTROL SHEET FOR METHOD: EPA 8082

**CCV WORK ORDER:** 099-15-958-462-6572

**ANALYZED BY:** 669

**BATCH ID:**  
INITIAL: 170523I001  
CCV: 170526A007  
**INSTRUMENT:** GC 58

D/T ANALYZED:  
INITIAL: 2017-05-23 16:52  
CCV: 2017-05-26 17:28  
**REVIEWED BY:**  
D/T REVIEWED:

**DATA FILE:** /chem1/SVOA/GC\_58/170526/b1705262017052620

<u>COMPOUND NAME</u>	<u>TYPE</u>	<u>CALIB MODEL</u>	<u>MIN RF</u>	<u>AVG RF</u>	<u>CCV RF</u>	<u>AMOUNT</u>	<u>CCV CONC</u>	<u>CCV %D</u>	<u>CCV %D CL</u>	<u>STATUS</u>
Aroclor-1016	C	Avg Resp	0.00	11506630.029	10554603.568			8	0-15	PASS
Aroclor-1260	C	Avg Resp	0.00	11537050.448	10787542.914			6	0-15	PASS

**MIN RF:** Method Specified Minimum Response Factor



Data File: /chem1/SVOA/GC\_58.i/170526.b/b17052620.d  
 Report Date: 26-May-2017 17:53

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Eurofins Calscience

EPA 8082/A PCB analysis

Data file : /chem1/SVOA/GC\_58.i/170526.b/b17052620.d  
 Lab Smp Id:  
 Inj Date : 26-MAY-2017 17:28  
 Operator : 944 Inst ID: GC\_58.i  
 Smp Info : PCB CCV 500 PPB P051717I  
 Misc Info :  
 Comment : Rtx-CLPesticide II  
 Method : /chem1/SVOA/GC\_58.i/170526.b/b8082-n2.m  
 Meth Date : 26-May-2017 17:53 src3 Quant Type: ESTD  
 Cal Date : 23-MAY-2017 19:33 Cal File: b17052330.d  
 Als bottle: 20 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP Genie Compound Sublist: p1016\_1260.sub  
 Target Version: 3.50  
 Processing Host: US26TAR4

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ppb)	ON-COL ( ppb)
T 1 2,4,5,6-Tetrachloro-m-xylene	4.742	4.739	0.003	6061357586	100.000	95.6
M 2 Aroclor-1016				5277301784	500.000	459
3 Aroclor 1016 (1)	5.453	5.451	0.002	505527748	500.000	450
4 Aroclor 1016 (2)	5.998	5.996	0.002	963463602	500.000	458
5 Aroclor 1016 (3)	6.580	6.579	0.001	2214408538	500.000	469
6 Aroclor 1016 (4)	6.751	6.750	0.001	884162174	500.000	445
7 Aroclor 1016 (5)	6.878	6.877	0.001	709739722	500.000	451
M 8 Aroclor-1260				5393771457	500.000	468
9 Aroclor 1260 (1)	9.054	9.056	-0.002	1594131759	500.000	462
10 Aroclor 1260 (2)	9.567	9.569	-0.002	1206067471	500.000	471
11 Aroclor 1260 (3)	9.904	9.908	-0.004	1347076768	500.000	470
12 Aroclor 1260 (4)	11.074	11.080	-0.006	360974469	500.000	445
13 Aroclor 1260 (5)	11.256	11.263	-0.007	885520990	500.000	479
T 56 Decachlorobiphenyl	11.915	11.919	-0.004	6072737414	100.000	97.3

Data File: /chem1/SVDA/CC\_58.i/170526.b/b17052620.d

Date : 26-MAY-2017 17:28

Client ID:

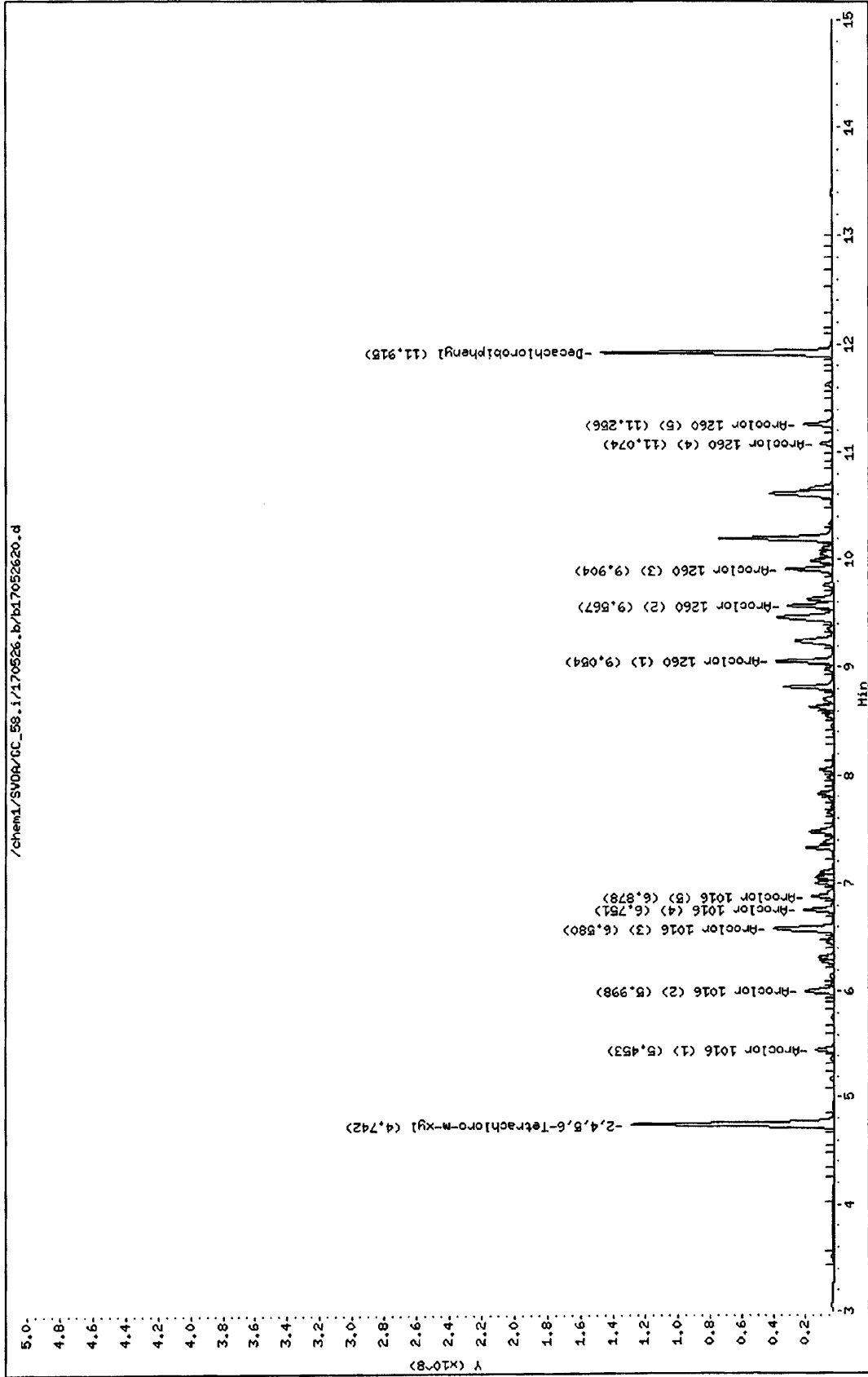
Sample Info: PCB CCV 500 PPB P0517171

Instrument: GC\_58.i

Operator: 944

Column diameter: 2.00

Column phase:





# EPA METHOD 8082 PCB

## Run Logs

## Sequence Table (Front Injector):

## Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 100	IB S007-62-06	8082-N2	1	Sample		17051900
2	Vial 1	ICAL-1 P051717F	8082-N2	1	Sample		17051901
3	Vial 2	ICAL-2 P051717E	8082-N2	1	Sample		17051902
4	Vial 3	ICAL-3 P051717D	8082-N2	1	Sample		17051903
5	Vial 4	ICAL-4 P051717C	8082-N2	1	Sample		17051904
6	Vial 5	ICAL-5 P051717B	8082-N2	1	Sample		17051905
7	Vial 6	ICV P051717H	8082-N2	1	Sample		17051906
8	Vial 7	1221/54 P051717J	8082-N2	1	Sample		17051907
9	Vial 8	1232/62 P051717K	8082-N2	1	Sample		17051908
10	Vial 9	1248/68 P051717L	8082-N2	1	Sample		17051909
11	Vial 10	1242 P051717M	8082-N2	1	Sample		17051910
12	Vial 11	1254IC1 P040817F	8082-N2	1	Sample		17051911
13	Vial 12	1254IC2 P040817E	8082-N2	1	Sample		17051912
14	Vial 13	1254IC3 P040817D	8082-N2	1	Sample		17051913
15	Vial 14	1254IC4 P040817C	8082-N2	1	Sample		17051914
16	Vial 15	1254IC5 P040817B	8082-N2	1	Sample		17051915
17	Vial 16	1254ICV P040817H	8082-N2	1	Sample		17051916
18	Vial 17	PCB CCV P051717I	8082-N2	1	Sample		17051917

## Sequence Table (Back Injector):

No entries - empty table!

Line	Vial	File	Name	Method	InjVolume	Acquired
1	100	17052300	IB S007-62-06	8082-N2		23-May-17, 11:03:20
2	1	17052301	PCB ICAL-1 100 PPB P051717F	8082-N2		23-May-17, 11:21:15
3	2	17052302	PCB ICAL-2 250 PPB P051717E	8082-N2		23-May-17, 11:39:09
4	3	17052303	PCB ICAL-3 500 PPB P051717D	8082-N2		23-May-17, 11:57:04
5	4	17052304	PCB ICAL-4 750 PPB P051717C	8082-N2		23-May-17, 12:15:07
6	5	17052305	PCB ICAL-5 2000 PPB P051717B	8082-N2		23-May-17, 12:33:01
7	6	17052306	PCB ICV 500 PPB P051717H	8082-N2	- front > 15% PP ICAL	23-May-17, 13:50:06
8	7	17052307	PCB 1221/54 500 PPB P051717J	8082-N2		23-May-17, 14:08:02
9	8	17052308	PCB 1232/62 500 PPB P051717K	8082-N2		23-May-17, 14:25:54
10	9	17052309	PCB 1248/68 500 PPB P051717L	8082-N2		23-May-17, 14:43:51
11	10	17052310	PCB 1242 500 PPB P051717M	8082-N2		23-May-17, 15:01:53
12	11	17052311	P052217A 200 PPB (3540C)-SPIKE	8082-N2		23-May-17, 15:19:50
13	12	17052312	PCB CCV 500 PPB P P051717I	8082-N2		23-May-17, 15:37:42
14	21	17052321	PCB ICAL-1 100 PPB P051717F	8082-N2		23-May-17, 16:52:05
15	22	17052322	PCB ICAL-2 250 PPB P051717E	8082-N2		23-May-17, 17:09:57
16	23	17052323	PCB ICAL-3 500 PPB P051717D	8082-N2		23-May-17, 17:27:51
17	24	17052324	PCB ICAL-4 750 PPB P051717C	8082-N2		23-May-17, 17:45:52
18	25	17052325	PCB ICAL-5 2000 PPB P051717B	8082-N2		23-May-17, 18:03:47
19	26	17052326	PCB ICV 500 PPB P051717H	8082-N2		23-May-17, 18:21:40
20	27	17052327	PCB 1221/54 500 PPB P051717J	8082-N2		23-May-17, 18:39:35
21	28	17052328	PCB 1232/62 500 PPB P051717K	8082-N2		23-May-17, 18:57:36
22	29	17052329	PCB 1248/68 500 PPB P051717L	8082-N2		23-May-17, 19:15:30
23	30	17052330	PCB 1242 500 PPB P051717M	8082-N2		23-May-17, 19:33:25

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 100	IB S007-62-06	8082-N2	1	Sample		17052500
2	Vial 1	PCB CCV P051717I	8082-N2	1	Sample		17052501
3	Vial 2	MB 170522L14	8082-N2	1	Sample	1003	17052502
4	Vial 3	LCS 170522L14	8082-N2	1	Sample		17052503
5	Vial 4	LCSD 170522L14	8082-N2	1	Sample		17052504
6	Vial 7	MB 170523L13	8082-N2	1	Sample		17052507
7	Vial 8	LCS 170523L13	8082-N2	1	Sample		17052508
8	Vial 9	17-05-1814-9	8082-N2	1	Sample		17052509
9	Vial 10	17-05-1776-21	8082-N2	1	Sample		17052510
10	Vial 11	17-05-1776-22	8082-N2	1	Sample		17052511
11	Vial 12	MS 17-05-1776-22	8082-N2	1	Sample		17052512
12	Vial 13	MSD17-05-1776-22	8082-N2	1	Sample		17052513
13	Vial 19	17-05-1814-9 Hg	8082-N2	1	Sample		17052519
14	Vial 14	LCS 170524L06	8082-N2	1	Sample		17052514
15	Vial 15	LCSD 170524L06	8082-N2	1	Sample		17052515
16	Vial 16	MB 170524L06	8082-N2	1	Sample	→ loose cap	17052516
17	Vial 17	17-05-1790-2	8082-N2	1	Sample	PB+R	17052517
18	Vial 18	17-05-1790-3	8082-N2	1	Sample		17052518
19	Vial 5	17-05-1525-3	8082-N2	1	Sample		17052505
20	Vial 6	17-05-1525-4	8082-N2	1	Sample		17052506
21	Vial 20	MB 170524L06	8082-N2	1	Sample		17052520
22	Vial 21	PCB CCV P051717I	8082-N2	1	Sample		17052521
23	Vial 22	IB	8082-N2	1	Sample	1004	17052522
24	Vial 23	MB 170524L01	8082-N2	1	Sample		17052523
25	Vial 24	LCS 170524L01	8082-N2	1	Sample		17052524
26	Vial 25	MS 17-05-1835-2	8082-N2	1	Sample		17052525
27	Vial 26	MSD 17-05-1835-2	8082-N2	1	Sample		17052526
28	Vial 27	17-05-1835-1	8082-N2	1	Sample		17052527
29	Vial 28	17-05-1835-2	8082-N2	1	Sample		17052528
30	Vial 29	17-05-1835-3	8082-N2	1	Sample		17052529
31	Vial 30	17-05-1822-1	8082-N2	1	Sample		17052530
32	Vial 31	17-05-1822-2	8082-N2	1	Sample		17052531
33	Vial 21	PCB CCV P051717I	8082-N2	1	Sample		17052532

Sequence Table (Back Injector):

No entries - empty table!



Line	Vial	File	Name	Method	InjVolume	Acquired
1	100	17052500	IB S007-62-06	8082-N2		25-May-17, 09:18:30
2	1	17052501	PCB CCV 500 PPB P P051717I	8082-N2	<i>A005</i>	25-May-17, 09:36:25
3	2	17052502	MB 170524L15	8082-N2		25-May-17, 09:54:56
4	3	17052503	LCS 170524L15	8082-N2		25-May-17, 10:12:53
5	4	17052504	17-05-1899-1	8082-N2		25-May-17, 10:31:25
6	5	17052505	17-05-1899-2	8082-N2		25-May-17, 10:49:21
7	6	17052506	17-05-1899-3	8082-N2		25-May-17, 11:07:16
8	7	17052507	17-05-1899-4	8082-N2		25-May-17, 11:25:10
9	8	17052508	17-05-1899-5	8082-N2		25-May-17, 11:43:11
10	9	17052509	17-05-1899-6	8082-N2		25-May-17, 12:01:04
11	10	17052510	17-05-1899-7	8082-N2		25-May-17, 12:19:02
12	11	17052511	17-05-1899-8	8082-N2		25-May-17, 12:36:56
13	12	17052512	17-05-1899-9	8082-N2		25-May-17, 12:54:58
14	13	17052513	17-05-1899-10	8082-N2		25-May-17, 13:12:51
15	14	17052514	17-05-1899-11	8082-N2		25-May-17, 13:30:45
16	15	17052515	17-05-1899-12	8082-N2		25-May-17, 13:48:42
17	16	17052516	MS 17-05-1899-1 170524S15	8082-N2		25-May-17, 14:06:43
18	17	17052517	MSD 17-05-1899-1 170524S15	8082-N2		25-May-17, 14:24:38
19	18	17052518	MB 170524L14	8082-N2		25-May-17, 14:42:33
20	19	17052519	LCS 170524L14	8082-N2		25-May-17, 15:00:26
21	20	17052520	MS 17-05-1718-12 170524S14	8082-N2		25-May-17, 15:18:26
22	21	17052521	MSD 17-05-1718-12 170524S14	8082-N2		25-May-17, 15:36:24
23	22	17052522	PCB CCV 500 PPB P051717I	8082-N2	<i>A006</i>	25-May-17, 15:54:18
24	23	17052523	17-05-1932-1	8082-N2		25-May-17, 16:35:33
25	24	17052524	17-05-1718-9	8082-N2		25-May-17, 16:53:28
26	25	17052525	17-05-1718-12	8082-N2		25-May-17, 18:02:49
27	26	17052526	MB 170523L12	8082-N2		25-May-17, 18:20:44
28	27	17052527	LCS 170523L12	8082-N2		25-May-17, 18:38:40
29	28	17052528	MS 17-05-1776-1 170523S12	8082-N2		25-May-17, 18:56:41
30	29	17052529	MSD 17-05-1776-1 170523S12	8082-N2		25-May-17, 19:14:36
31	30	17052530	PCB CCV 500 PPB P051717I	8082-N2		25-May-17, 19:32:29
32	31	17052531	17-05-1776-1	8082-N2	<i>A007</i>	25-May-17, 19:50:25
33	32	17052532	17-05-1776-2	8082-N2		25-May-17, 20:08:26
34	33	17052533	17-05-1776-3	8082-N2		25-May-17, 20:26:22
35	34	17052534	17-05-1776-4	8082-N2		25-May-17, 20:44:15
36	35	17052535	17-05-1776-5	8082-N2		25-May-17, 21:02:10
37	36	17052536	17-05-1776-6	8082-N2		25-May-17, 21:20:24
38	37	17052537	17-05-1776-7	8082-N2		25-May-17, 21:38:17
39	38	17052538	17-05-1776-8	8082-N2		25-May-17, 21:56:13
40	39	17052539	17-05-1776-9	8082-N2		25-May-17, 22:14:07
41	40	17052540	17-05-1776-10 <i>-fox</i>	8082-N2		25-May-17, 22:32:08
42	41	17052541	17-05-1776-11	8082-N2		25-May-17, 22:50:01
43	42	17052542	17-05-1776-12 <i>-fox</i>	8082-N2		25-May-17, 23:07:56
44	43	17052543	17-05-1776-13	8082-N2		25-May-17, 23:25:53
45	44	17052544	17-05-1776-14	8082-N2		25-May-17, 23:43:53
46	45	17052545	17-05-1776-15	8082-N2		26-May-17, 00:01:44
47	46	17052546	17-05-1776-16	8082-N2		26-May-17, 00:19:42
48	47	17052547	17-05-1776-17	8082-N2		26-May-17, 00:37:35
49	48	17052548	17-05-1776-18	8082-N2		26-May-17, 00:55:36
50	49	17052549	17-05-1776-19	8082-N2		26-May-17, 01:13:32
51	50	17052550	17-05-1776-20	8082-N2		26-May-17, 01:31:28
52	51	17052551	PCB CCV 500 PPB P051717I	8082-N2	<i>A008</i>	26-May-17, 01:49:26

Line	Vial	File	Name	Method	InjVolume	Acquired
1	100	17052600	IB S007-62-06	8082-N2		26-May-17, 11:29:40
2	1	17052601	PCB CCV 500 PPB P P051717I	8082-N2		26-May-17, 11:47:36
3	2	17052602	IB	8082-N2	<i>Apog</i>	26-May-17, 12:05:31
4	3	17052603	MB 170525L01	8082-N2		26-May-17, 12:23:27
5	4	17052604	LCS 170525L01	8082-N2		26-May-17, 12:41:28
6	5	17052605	17-05-1929-1	8082-N2		26-May-17, 12:59:22
7	6	17052606	17-05-1929-2	8082-N2		26-May-17, 13:17:19
8	7	17052607	17-05-1929-3	8082-N2		26-May-17, 13:35:12
9	8	17052608	17-05-1929-4	8082-N2		26-May-17, 13:53:14
10	9	17052609	17-05-1929-5	8082-N2		26-May-17, 14:11:07
11	10	17052610	17-05-1929-6	8082-N2		26-May-17, 14:29:05
12	11	17052611	17-05-1929-7	8082-N2		26-May-17, 14:46:59
13	12	17052612	PCB CCV 500 PPB P P051717I	8082-N2	<i>Acob</i>	26-May-17, 15:05:01
14	13	17052613	IB	8082-N2		26-May-17, 15:22:54
15	14	17052614	17-05-1929-8	8082-N2		26-May-17, 15:40:51
16	15	17052615	17-05-1929-9	8082-N2		26-May-17, 15:58:45
17	16	17052616	MS 17-05-1929-1 170525S01	8082-N2		26-May-17, 16:16:48
18	17	17052617	MSD 17-05-1929-1 170525S01	8082-N2		26-May-17, 16:34:40
19	18	17052618	17-05-1776-10 10X	8082-N2		26-May-17, 16:52:35
20	19	17052619	17-05-1776-12 10X	8082-N2		26-May-17, 17:10:28
21	20	17052620	PCB CCV 500 PPB P051717I	8082-N2	<i>Acob</i>	26-May-17, 17:28:30

# EPA METHOD 8082 PCB

## Preparation Logs

Analysis Method (EPA Method):  608  8081  8082  8141  8310  TO-13  TO-4  
 8270 ( Soil  Soil SIM SUPER  PAH  SIM PAH  SIM Pest  SIM PCB cong.  SIM FL)

Extraction Method (EPA Method):  3510  3520  3540  3541  3545  3550  3580

Analyst ID#: Measuring Sample- 963 Start Extraction- 1096 Blow Down- 1115 Clean Up- 1115

Matrix:  Soil  Aqueous  Oil  Wipe  Filter  Tissue  Air

Balance ID#: 53 Filter ID#: 507-17-17 ASE ID#: 7 Soxtherm ID#: X<sup>046 523</sup> Orbit Shaker ID#: \_\_\_\_\_ Sonicator ID#: \_\_\_\_\_

Ext. Start Date/Time: 5/23/17 20:30 Ext. End Date/Time: 5/24/17-9:00

Sand or Wipe ID#: 507-64-18 Drying Agent:  Na<sub>2</sub>SO<sub>4</sub>  Diatomaceous Earth  
Drying Agent(s) ID#: 507-22-03

Surrogate Std ID# & Volume Added (mL): 5032717A 0.5mL

Spike Std ID# & Volume Added (mL): 5020317A 0.5mL Spike Added to:  LCS  LCSD  MS  MSD

Extraction Solvent:  MeCl<sub>2</sub>  1:1 Hexane-Acetone  1:1 MeCl<sub>2</sub>-Acetone  9:1 Hexane-Diethyl-ether  Acetonitrile

Extraction Solvent ID#: 507-62-06/507-44-08 Exchange Solvent ( Hexane  Acetonitrile) ID#: 507-62-06

Clean Up Start Date & Time: 5/24/17-16:00 Clean Up End Date & Time: 5/24/17-16:30

Clean Up:  3620 Florisil  3630 SGC  3660 Sulfur  3665 Acid  Other \_\_\_\_\_ Cartridge ID#: \_\_\_\_\_

Clean Up Reagent ID#: 507-52-12/507-44-11 Cartridge Conditioning Column Pre-Elution Reagent ID#: \_\_\_\_\_

MB/LCS/MS Batch #:	Sample Wt (g) / V (mL)		Clean Up Performed	Comments
	Initial	Final		
<u>170523L12</u>				
Cel ID#:				
MB	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
LCS	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
LCSD <u>NA</u>	<u>-</u>	<u>-</u>	<input type="checkbox"/>	
MS <u>17-05-1776 - 1 A</u>	<u>20.0g</u>	<u>10</u>	<input checked="" type="checkbox"/>	
MSD <u>17-05-1776 - 1 A</u>	<u>20.1g</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>17-05-1776 - 1 A</u>	<u>20.2g</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>2 A</u>	<u>20.1</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>3 A</u>	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>4 A</u>	<u>20.1</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>5 A</u>	<u>20.1</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>6 A</u>	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>7 A</u>	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>8 A</u>	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>9 A</u>	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>10 A</u>	<u>20.1</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>11 A</u>	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>12 A</u>	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	<u>Hg</u>
<u>13 A</u>	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>14 A</u>	<u>20.2</u>	<u>10</u>	<input checked="" type="checkbox"/>	<u>Hg</u>
<u>15 A</u>	<u>20.1</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>16 A</u>	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>17 A</u>	<u>20.1</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>18 A</u>	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>19 A</u>	<u>20.0</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<u>20 A</u>	<u>20.1</u>	<u>10</u>	<input checked="" type="checkbox"/>	

Peer Reviewed by: 44

Peer Reviewed Date: 5/25/17.

Revision Date: 10/20/16





## GOVERNMENT OF GUAM

### GENERAL TERMS AND CONDITIONS

#### SEALED BID SOLICITATION AND AWARD

**Only those Boxes checked below are applicable to this bid.**

- [X] 1. **AUTHORITY:** This solicitation is issued subject to all the provision of the Guam Procurement Act (5GCA, Chapter 5) And the Guam Procurement Regulations (copies of both are available at the Office of the Complier of laws, Department of Law, copies available for inspection at the Guam Power Authority). It requires all parties involved in the Preparation, negotiation, performance, or administration of contracts to act in good faith.
- [X] 2. **GENERAL INTENTION:** Unless otherwise specified, it is the declared and acknowledged intention and meaning of these General Terms and conditions for the bidder to provide the Government of Guam (Government) with specified services or with materials, supplies or equipment completely assembled and ready for use.
- [X] 3. **TAXES:** Bidders are cautioned that they are subject to Guam Income Taxes as well as all other taxes on Guam Transactions. Specific information on taxes may be obtained from the Director of Revenue and Taxation.
- [X] 4. **LICENSING:** Bidders are cautioned that the Government will not consider for award any offer submitted by a bidder who has not complied with the Guam Licensing Law. Specific information on licenses may be obtained from the Director of Revenue and Taxation.
- [X] 5. **LOCAL PROCUREMENT PREFERENCE:** All procurement of supplies and services where possible, will be made from among businesses licensed to do business on Guam in accordance with section 5008 of the Guam Procurement Act (5GCA, Chapter 5) and Section 1-104 of the Guam Procurement Regulations.
- [X] 6. **COMPLIANCE WITH SPECIFICATIONS AND OTHER SOLICITATION REQUIREMENTS:** Bidders shall comply with all specifications and other requirements of the Solicitation.
- [X] 7. **“ALL OR NONE” BIDS:** Unless otherwise allowed under this Solicitation. “all or none” bids may be deemed to be non-responsive. If the bid is so limited, the Government may reject part of such proposal and award on the remainder.

**NOTE:** By checking this item, the Government is requesting all of the bid items to be bid or none at all. **The Government will not award on an itemized basis.** Reference: Section 3-101.06 of the Guam Procurement Regulations.

- [X] 8. **INDEPENDENT PRICE DETERMINATION:** The bidder, upon signing the Invitation for Bid, certifies that the prices in his bid were derived at without collusion, and acknowledge that collusion and anti-competitive practices are prohibited by law. Violations will be subject to the provision of Section 5651 of that of the Guam Procurement Act. Other existing civil, criminal or administrative remedies are not impaired and may be in addition to the remedies in Section 5651 of the Government code.
- [X] 9. **BIDDER'S PRICE:** The Government will consider not more than two (2) (Basic and Alternate) item prices and the bidder shall explain fully each price if supplies, materials, equipment, and/or specified services offered comply with specifications and the products origin. Where basic or alternate bid meets the minimum required specification, cost and other factors will be considered. Failure to explain this requirement will result in rejection of the bid.
- [X] 10. **BID ENVELOPE:** Envelope shall be sealed and marked with the bidder's name, Bid number, time, date and place of Bid Opening.
- [X] 11. **BID GUARANTEE REQUIREMENT:** Bidder is required to submit a Bid Guarantee Bond or standby irrevocable Letter of Credit or Certified Check or Cashier's Check in the same bid envelope to be held by the Government pending award. The Bid Guarantee Bond, Letter of Credit, Certified Check or Cashier's Check must be issued by any local surety or banking institution licensed to do business on Guam and made payable to the Guam Power Authority in the amount of ten thousand dollars (\$10,000.00 USD). The Bid Bond must be submitted on Government Standard Form BB-1 (copy enclosed). Personal Checks will not be accepted as Bid Guarantee. If a successful Bidder (contractor) withdraws from the bid or fails to enter into contract within the prescribed time, such Bid guarantee will be forfeited to the Government of Guam. Bids will be disqualified if not accompanied by Bid Bond, Letter of Credit, Certified Check or Cashier's check. Bidder must include in his/her bid, valid copies of a Power of Attorney from the Surety and a Certificate of Authority from the Government of Guam to show proof that the surety company named on the bond instrument is authorized by the Government of Guam and qualified to do business on Guam. For detailed information on bonding matters, contact the Department of Revenue and Taxation. Failure to submit a valid Power of Attorney and Certificate of Authority on the surety is cause for rejection of bid. (GPR Section 3-202.03.3) **Pursuant to Public Law 27-127, all competitive sealed bidding for the procurement of supplies or services exceeding \$25,000.00 a 15% Bid Security of the total bid price must accompany the bid package.**
- [X] 12. **PERFORMANCE BOND REQUIREMENT:** The Bidder may be required to furnish a Performance Bond on Government Standard Form BB-1 or standby irrevocable Letter of Credit or Certified Check or Cashier's Check payable to the Guam Power Authority issued by any of the local Banks or Bonding Institution in the amount of FIFTEEN PERCENT (15%) of the estimated amount of the contract as security for the faithful performance and proper fulfillment of the contract. In the event that any of the provisions of this contract are violated by the contractor, the Chief Procurement Officer shall serve writted notice upon the contractor and the Surety of its intention to terminate the contract. Unless satisfactory arrangement or connections is made within ten (10) days of such notice the contract shall cease and terminate upon the expiration of the ten (10) days. In the event of any such termination, the Chief Procurement Officer shall immediately serve notice thereof upon the Surety. The Surety shall have the right to take over and perform the contract, provided, however, that if the Surety does not commence performance thereof within 10 days from the date of the mailing of notice of termination, the Government may take over and prosecute the same to complete the contract or force account for the account and at the expense of the contractor, and the contractor and his Surety shall be liable to the Government for any excess cost occasioned the Government thereby (GPR Section 3-202.03.4).

- [X] 13. **PERFORMANCE GUARANTEE:** Bidders who are awarded a contract under this solicitation, guarantee that goods will be delivered or required services performed within the time specified. Failure to perform the contract in a satisfactory manner may be cause for suspension or debarment from doing business with the Government and to enforce Section 23 of these General Terms and Conditions. In addition, the Government will hold the Vendor liable and will enforce the requirements as set forth in Section 41 of these General Terms and Conditions.
- [X] 14. **SURETY BONDS:** Bid and Performance Bonds coverage must be signed or countersigned in Guam by a foreign or alien surety's resident general agent. The surety must be an Insurance Company, authorized by the government of Guam and qualified to do business in Guam. Bids will be disqualified if the Surety Company does not have a valid Certificate of Authority from the Government of Guam to conduct business in Guam.
- [X] 15. **COMPETENCY OF BIDDERS:** Bids will be considered only from the such bidders who, in the opinion of the Government, can show evidence of their ability, experience, equipment, and facilities to render satisfactory service.
- [X] 16. **DETERMINATION OF RESPONSIBILITY OF BIDDERS:** The Chief Procurement Officer reserves the right for securing from bidders information to determine whether or not they are responsible and to inspect plant site, place of business; and supplies and services as necessary to determine their responsibility in accordance with Section 15 of these General Terms and Conditions (GPR Section 3-401).
- [X] 17. **STANDARD FOR DETERMINATION OF LOWEST RESPONSIBLE BIDDER:** In determining the lowest responsible offer, the Chief Procurement Officer shall be guided by the following:
- a) Price of items offered.
  - b) The ability, capacity, and skill of the Bidder to perform.
  - c) Whether the Bidder can perform promptly or within the specified time.
  - d) The quality of performance of the Bidder with regards to awards previously made to him.
  - e) The previous and existing compliance by the Bidder with laws and regulations relative to procurement.
  - f) The sufficiency of the financial resources and ability of the Bidder to perform.
  - g) The ability of the bidder to provide future maintenance and services for the subject of the award.
  - h) **The compliance with all of the conditions to the Solicitation.**
- [X] 18. **TIE BIDS:** If the bids are for the same unit price or total amount in the whole or in part, the Chief Procurement Officer will determine award based on Section 3.202.15.2, or to reject all such bids (GPR Section 3-202.15.2).
- [ ] 19. **BRAND NAMES:** Any reference in the Solicitation to manufacturer's Brand Names and number is due to lack of a satisfactory specification of commodity description. Such preference is intended to be descriptive, but nor restrictive and for the sole purpose of indicating prospective bidders a description of the article or services that will be satisfactory. Bids on comparable items will be considered provided the bidder clearly states in his bid the exact articles he is offering and how it differs from the original specification.
- [ ] 20. **DESCRIPTIVE LITERATURE:** Descriptive literature(s) as specified in this solicitation must be furnished as a part of the bid and must be received at the date and time set for opening Bids. The literature furnished must clearly identify the item(s) in the Bid. The descriptive literature is required to establish, for the purpose of evaluation and award, details of the product(s) the bidder proposes to furnish including design, materials, components, performance characteristics, methods of manufacture, construction, assembly or other characteristics which are considered appropriate. Rejection of the Bid will be required if the descriptive literature(s) do not show that the product(s) offered conform(s) to the specifications and other requirements of this solicitation. Failure to furnish the descriptive literature(s) by the time specified in the Solicitation will require rejection of the bid.
- [ ] 21. **SAMPLES:** Sample(s) of item(s) as specified in this solicitation must be furnished as a part of the bid and must be received at the date and time set for opening Bids. The sample(s) should represent exactly what the bidder proposes to furnish and will be used to determine if the item(s) offered complies with the specifications. Rejection of the Bid will be required if the sample(s) do not show that the product(s) offered conform(s) to the specifications and other requirements of this solicitation. Failure to furnish the sample(s) by the time specified in the Solicitation will require rejection of the Bid.
- [ ] 22. **LABORATORY TEST:** Successful bidder is required to accompany delivery of his goods with a Laboratory Test Report indicating that the product he is furnishing the Government meets with the specifications. This report is on the bidder's account and must be from a certified Testing Association.
- [X] 23. **AWARD, CANCELLATION, & REJECTION:** Award shall be made to the lowest responsible and responsive bidder, whose bid is determined to be the most advantageous to the Government, taking into consideration the evaluation factors set forth in this solicitation. No other factors or criteria shall be used in the evaluation. The right is reserved as the interest of the Government may require to waive any minor irregularity in bid received. The Chief Procurement Officer shall have the authority to award, cancel, or reject bids, in whole or in part for any one or more items if he determines it is in the public interest. Award issued to the lowest responsible bidder within the specified time for acceptance as indicated in the solicitation, results in a bidding contract without further action by either party. In case of an error in the extension of prices, unit price will govern. It is the policy of the Government to award contracts to qualified local bidders. The government reserves the right to increase or decrease the quantity of the items for award and make additional awards for the same type items and the vendor agrees to such modifications and additional awards based on the bid prices for a period of thirty (30) days after original award. No. award shall be made under this solicitation which shall require advance payment or irrevocable letter of credit from the government (GPR Section 3-202.14.1).

24. **MARKING:** Each outside container shall be marked with the Purchase Order number, item number, brief tem description and quantity. Letter marking shall not be less than 3/4" in height.
25. **SCHEDULE FOR DELIVERY:** Successful bidder shall notify the Guam Power Authority, Dededo Warehouse at (671) 653-2073 and/or Guam Power Authority Cabras Warehouse at (671) 475-3319, at least twenty-four (24) hours before delivery of any item under this solicitation.
26. **BILL OF SALE:** Successful supplier shall render Bills of Sale for each item delivered under this contract. Failure to comply with this requirement will result in rejection of delivery. The Bill of Sale must accompany the items delivered but will not be considered as an invoice for payment. Supplier shall bill the Government in accordance with billing instructions as indicated on the Purchase Order.
27. **MANUFACTURER'S CERTIFICATE:** Successful bidder is required, upon delivery of any item under this contract, to furnish a certificate from the manufacturer indication that the goods meet the specifications. Failure to comply with this request will result in rejection of delivery payment. Supplier shall bill the Government in accordance with billing instructions as indicated on the Purchase Order.
28. **INSPECTION:** All supplies, materials, equipment, or services delivered under this contract shall be subject to the inspection and/or test conducted by the Government at destination. If in any case the supplies, materials, equipment, or services are found to be defective in material, workmanship, performance, or otherwise do not conform with the specifications, the Government shall have the right to reject the items or require that they be corrected. The number of days required for correction will be determined by the Government.
29. **MOTOR VEHICLE SAFETY REQUIREMENTS:** The Government will only consider Bids on motor vehicles which comply with the requirements of the National Traffic and Motor Vehicle safety Act of 1966 (Public Law 89-563) and Clean Air Act as amended (Public Law 88-206), that are applicable to Guam. Bidders shall state if the equipment offered comply with these aforementioned Federal Laws.
30. **SAFETY INSPECTION:** All motor vehicles delivered under this contract must pass the Government of Guam Vehicle Inspection before delivery at destination.
31. **GUARANTEE:**
- a) **Guarantee of Vehicle Type of Equipment:**  
The successful bidder shall guarantee vehicular type of equipment offered against defective parts, workmanship, and performance, for a period of not less than one (1) year after date of receipt of equipment. Bidder shall also provide service to the equipment for at least one (1) year. Service to be provided shall include, but will not be limited to tune ups (change of spark plugs, contact points and condensers) and lubrication (change of engine and transmission oil). All parts and labor shall be at the expense of the bidder. All parts found defective and not caused by misuse, negligence or accident within the guarantee period shall be repaired, replaced, or adjusted within six (6) working days after notice from the Government and without cost to the Government. Vehicular type of equipment as used in this context shall include equipment used for transportation as differentiated from tractors, backhoes, etc.
- b) **Guarantee of Other Type of Equipment:**  
The successful bidder shall guarantee all other types of equipment offered, except those mentioned in 31a, above, against defective parts, workmanship, and performance for a period of not less than three (3) months after date of receipt of equipment. Bidder shall also provide service to the equipment for at least three (3) months. All parts found defective within that period shall be repaired or replaced by the Contractor without cost to the Government. Repairs, adjustments or replacements of defective parts shall be completed by the contractor within six (6) working days after notice from the Government.
- c) **Compliance with this Section is a condition of this Bid.**
32. **REPRESENTATION REGARDING ETHICS IN PUBLIC PROCUREMENT:** The bidder or contractor represents that it has not knowingly influenced and promises that it will not knowingly influence a Government employee to breach any of the ethical standards and represents that it has not violated, is not violating, and promises that it will not violate the prohibition against gratuities and kickbacks set forth on Chapter 11 (Ethics in Public Contracting) of the Guam Procurement Act and in Chapter 11 of the Guam Procurement Regulations.
33. **REPRESENTATION REGARDING CONTINGENT FEES:** The contractor represents that it has not retained a person to solicit or secure a Government contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, except for retention of bona fide employees or bona fide established commercial selling agencies for the purpose of securing business (GPR Section 11-207).
34. **EQUAL EMPLOYMENT OPPORTUNITY:** Contractors shall not discriminate against any employee or applicant of employment because of race, color, religion, se, or national origin. The contractor will take affirmative action to ensure that employees are treated equally during employment without regards to their race, color, religion, sex, or national origin.
35. **COMPLIANCE WITH LAWS:** Bidders awarded a contract under this Solicitation shall comply with the applicable standard, provisions, and stipulations of all pertinent Federal and/or local laws, rules, and regulations relative to the performance of this contract and the furnishing of goods.
36. **CHANGE ORDER:** Any order issued relative to awards made under this solicitation will be subject to and in accordance with the provisions of Section 6-101-03.1 of the Guam Procurement Regulations.
37. **STOP WORK ORDER:** Any stop work order issued relative to awards made under this solicitation will be subject to and in accordance with the provisions of Section 6-101-04.1 of the Guam Procurement Regulations.

- [X] 38. **TERMINATION FOR CONVENIENCE:** Any termination order for the convenience of the Government issued relative towards made under this solicitation will be subject to and in accordance with the provisions of Section 6-101.10 of the Government Procurement Regulations.
  
- [X] 39. **TIME FOR COMPLETION:** It is hereby understood and mutually agreed by and between the contractor and the Government that the time for delivery to final destination or the timely performance of certain services is an essential condition of this contract. If the contractor refuses or fails to perform any of the provisions of this contract within the time specified in the Purchase Order (from the date Purchase Order is acknowledged by vendor), then the contractor is in default. Defaults will be treated subject to and in accordance with the provisions of Section 6-101-08 of the Guam Procurement Regulations.
  
- [X] 40. **JUSTIFICATION OF DELAY:** Bidders who are awarded contracts under this Solicitation, guarantee that the goods will be delivered to their destination or required services rendered within the time specified. If the bidder is not able to meet the specified delivery date, he is required to notify the Chief Procurement Officer of such delay. Notification shall be in writing and shall be receive by the Chief Procurement Officer at least twenty-four (24) hours before the specified delivery date. Notification of delay shall include an explanation of the causes and reasons for the delay including statement(s) from supplier or shipping company causing the delay. The Government reserves the right to reject delay justification if, in the opinion of the Chief Procurement Officer, such justification is not adequate.
  
- [X] 41. **LIQUIDATED DAMAGES:** When the contractor is given notice of delay or nonperformance as specified in Paragraph 1 (Default) of the Termination for Default Clause of this contract and fails to cure in the time specified, the contractor shall be liable for damages for delay in the amount of **one thousand dollars (\$1,000.00)** of outstanding order per calendar day from date set for cure until either the territory reasonable obtains similar supplies or services if the contractor is terminated for default, or until the contractor provides the supplies or services if the contractor is not terminated for default. To the extent that the contractor's delay or nonperformance is excused under Paragraph 40 (Excuse for Nonperformance or Delayed Performance) of the Termination for Default Clause of this contract, liquidated damages shall not e due the territory. The contractor remains liable for damages caused other than by delay (GPR Section 6-101-09.1).
  
- [X] 42. **PHYSICAL LIABILITY:** If it becomes necessary for the Vendor, either as principal, agent or employee, to enter upon the premises or property of the Government of Guam in order to construct, erect, inspect, make delivery or remove property hereunder, the Vendor hereby covenants and agrees to take, use, provide and make all proper, necessary and sufficient precautions, safeguards and protections against the occurrence of any accidents, injuries or damages to any person or property during the progress of the work herein covered, and to be responsible for, and to indemnify and save harmless the Government of Guam from the payment of all sums of money by reason of all or any such accidents, injuries or damages that may occur upon or about such work, and fines, penalties and loss incurred for or by reasons of the violations of any territorial ordinance, regulations, or the laws of Guam or the United States, while the work is in progress. Contractor will carry insurance to indemnify the Government of Guam against any claim for loss, damage or injury to property or persons arising out of the performance of the Contractor or his employees and agents of the services covered by the contract and the use, misuse or failure of any equipment used by the contractor or his employees or agents, and shall provide certificates of such insurance to the Government of Guam when required.
  
- [X] 43. **CONTACT FOR CONTRACT ADMINISTRATION:** If your firm receives a contract as a result of this Solicitation, please designate a person whom we may contact for prompt administration.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Address: \_\_\_\_\_ Telephone: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_

**GOVERNMENT OF GUAM**

**SEALED BID SOLICITATION INSTRUCTIONS**

1. **BID FORMS:** Each bidder shall be provided with two (2) sets of Solicitation forms. Additional copies may be provided upon request. Bidders requesting additional copies of said forms will be charged per page in accordance with Section 6114 of the Government Code of Guam. All payments for this purpose shall be by cash, certified check or money order and shall be made payable to the Guam Power Authority.
  
2. **PREPARATIONS OF BIDS:**
  - a) Bidders are required to examine the drawings, specifications, schedule, and all instructions. Failure to do so will be at bidder's risk.
  - b) Each bidder shall furnish the information required by the Solicitation. The bidder shall sign the solicitation and print or type his name on the Schedule. Erasures or other changes must be initialed by the person signing the bid. Bids signed by an agent are to be accompanied by evidence of this authority unless such evidence has been previously furnished to the issuing office.
  - c) Unit price for each unit offered shall be shown and such price shall include packing unless otherwise specified. A total shall be entered in the amount column of the Schedule for each item offered. In case of discrepancies between a unit price and extended price, the unit price will be presumed to be correct.
  - d) Bids for supplies or services other than those specified will not be considered. Time, if stated as a number of days, means calendar days and will include Saturdays, Sundays, and holidays beginning the day after the issuance of a Notice to Proceed. Time stated ending on a Saturday, Sunday or Government of Guam legal holiday will end at the close of the next business day.
  
3. **EXPLANATION TO BIDDERS:** Any explanation desired by a bidder regarding the meaning or interpretation of the Solicitation, drawings, specifications, etc., must be submitted in writing and with sufficient time allowed for a written reply to reach all bidders before the submission of their bids. Oral explanations or instructions given before the award of the contract will not be binding. Any information given to a prospective bidder concerning a Solicitation will be furnished to all prospective bidders in writing as an amendment to the Solicitation if such information would be prejudicial to uninformed bidders.
  
4. **ACKNOWLEDGEMENT OF AMENDMENTS TO SOLICITATIONS:** Receipt of an amendment to a Solicitation by a bidder must be acknowledged by signing an acknowledgement of receipt of the amendment. Such acknowledgement must be received prior to the hour and date specified for receipt of bids.
  
5. **SUBMISSION OF BIDS:**
  - a) Bids and modifications thereof shall be enclosed in sealed envelopes and addressed to the office specified in the Solicitation. The bidder shall show the hour and date specified in the Solicitation for receipt, the Solicitation number, and the name and address of the bidder on the face of the envelope.
  - b) Telegraphic bids will not be considered unless authorized by the Solicitation. However, bids may be modified or withdrawn by written or telegraphic notice, provided such notice is received prior to the hour and date specified for receipt (see paragraph 6 of these instructions).
  - c) Samples of items, when required, must be submitted within the time specified, unless otherwise specified by the Government, at no expense to the Government. If not destroyed by testing, samples will be returned at bidder's request and expense, unless otherwise specified by the Solicitation.
  - d) Samples or descriptive literature should not be submitted unless it is required on this solicitation. Regardless of any attempt by a bidder to condition the bid, unsolicited samples or descriptive literature will not be examined or tested at the bidder's risk, and will not be deemed to vary any of the provisions of this Solicitation.
  
6. **FAILURE TO SUBMIT BID:** If no bid is to be submitted, do not return the solicitation unless otherwise specified. A letter or postcard shall be sent to the issuing office advising whether future Solicitations for the type of supplies or services covered by this Solicitation are desired.
  
7. **LATE BID, LATE WITHDRAWALS, AND LATE MODIFICATIONS:**
  - a) Definition: Any bid received after the time and date set for receipt of bids is late. Any withdrawal or modification of a bid received after the time and date set for opening of bids at the place designated for opening is late (Guam Procurement Regulations Section 3-202)
  - b) Treatment: No late bid, late modification, or late withdrawal will be considered unless received before contract award, and the bid, modification, or withdrawal would have been timely but for the action or inaction of territorial personnel directly serving the procurement activity.
  
8. **DISCOUNTS:**
  - a) Notwithstanding the fact that prompt payment discounts may be offered, such offer will not be considered in evaluating bids for award unless otherwise specified in the Solicitation. However, offered discounts will be taken if payment is made within the discount period, even though not considered in the evaluation of bids.
  - b) In connection with any discount offered, time will be computed from date of delivery and acceptance of the supplies to the destination as indicated in the purchase order or contract. Payment is deemed to be made for the purpose of earning the discount on the date of mailing of the Government check.

9. **GOVERNMENT FURNISHED PROPERTY:** No material, labor or facilities will be furnished by the Government unless otherwise provided for in the Solicitation.
10. **SELLERS' INVOICES:** Invoices shall be prepared and submitted in quadruplicate (one copy shall be marked "original") unless otherwise specified. Invoices shall be "certified true and correct" and shall contain the following information: Contract and order number (if any), item numbers, description of supplies or services, sizes, quantities, unit prices, and extended total. Bill of lading number and weight of shipment will be shown for shipments made on Government bills of lading.
11. **RECEIPT, OPENING AND RECORDING OF BIDS:** Bids and modifications shall be publicly opened in the presence of one or more witnesses, at the time, date, and place designated in the Invitation for Bids. The name of each bidder, the bid price, and such other information as is deemed appropriate by the Procurement Officer, shall be read aloud and recorded, or otherwise made available. The names and addresses of required witnesses shall be recorded at the opening. The opened bids shall be available for public inspection except to the extent the bidder designates trade secrets or other proprietary data to be confidential as set forth in accordance with Section 12 below. Material so designated shall accompany the bid and shall be readily separable from the bid in order to facilitate public inspection of the non-confidential portion of the bid. Prices, makes and models or catalogue numbers of the items offered, deliveries, and terms of payment shall be publicly available at the time of bid opening regardless of any designation to the contrary (Guam Procurement Regulations Section 3-202.12.2).
12. **CONFIDENTIAL DATA:** The Procurement Officer shall examine the bids to determine the validity of any requests for nondisclosure of trade secrets and other proprietary data identified in writing. If the parties do not agree as to the disclosure of data, the Procurement Officer shall inform the bidders in writing what portions of the bid will be disclosed and that, unless the bidders protest under Chapter 9 of the Guam Procurement Act (P.L. 16-124), the bids will be so disclosed. The bids shall be opened to public inspection subject to any continuing prohibition on the disclosure of confidential data (Guam Procurement Regulations Section 3-202.12.3).
13. **MULTI-STEP SEALED BIDDING:**
- a. It is defined as two-phase process consisting of a technical first-phase composed of one or more steps in which bidders submit unpriced technical offers to be evaluated by the territory, and a second-phase in which those bidders whose technical offers are determined to be acceptable during the first-step have their priced bids considered. It is designed to obtain the benefits of competitive sealed bidding by award of a contract to the lowest responsive, responsible bidder, and at the same time obtain the benefits of the competitive sealed proposals procedure through the solicitation of technical offers and the conduct of discussions to evaluate and determine the acceptability of technical offers.
  - b. In addition to the requirements set forth in the General Terms and Conditions and the Special provisions, the following applies:
    - 1). only unpriced technical offers are requested in the first phase;
    - 2). priced bids will be considered only in the second phase and only from bidders whose unpriced technical offers are found acceptable in the first phase;
    - 3). the criteria to be used in the evaluation at those specified in the Special Provisions and the General Terms and Conditions;
    - 4). the territory, to the extent the Procurement Officer finds necessary, may conduct oral or written discussion of the unpriced technical offers;
    - 5). the bidders, may designate those portions of the unpriced technical offers which contain trade secrets or other proprietary data which are to remain confidential; and,
    - 6). the service being procured shall be furnished generally in accordance with bidder's technical offer as found to be finally acceptable and shall meet the requirements of the Invitation for Bids.
  - c. **RECEIPT AND HANDLING OF UNPRICED TECHNICAL OFFERS.**  
Unpriced technical offers shall not be opened publicly, but shall be opened in front of two or more procurement officials. Such offers shall not be disclosed to unauthorized persons. Bidders may request nondisclosure of trade secrets and other proprietary data identified in writing.
  - d. **EVALUATION OF UNPRICED TECHNICAL OFFERS.**  
The unpriced technical offers submitted by bidders shall be evaluated solely in accordance with the criteria set forth in the Invitation for Bids. The unpriced technical offers shall be categorized as:
    - 1). acceptable;
    - 2). potentially acceptable, that is, reasonably susceptible of being made acceptable; or
    - 3). unacceptable. The Procurement Officer shall record in writing the basis for finding an offer unacceptable and make it part of the procurement file.

The Procurement Officer may initiate Phase Two of the procedure if, in the Procurement Officer's opinion, there are sufficient acceptable unpriced technical offers to assure effective price competition in the second phase without technical discussions. If the Procurement Officer finds such is not the case, the Procurement Officer shall issue an amendment to the Invitation for Bids or engage in technical discussions as set forth in Subsection 3-202.20.5 of this Section.

Upon the completion of Phase One, the Procurement Officer shall invite each acceptable bidder to submit a price bid. Upon submission of prices, the Procurement Officer shall prepare the final evaluation and reconsideration for the Chief Procurement Officer's approval.