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REMEDIAL ACTION WORK PLAN

Former Raeco Products – Site # 828107
24 Spencer Street
Rochester, New York 14608

Prepared For:

Contract# D009808, Work Assignment No. 7
New York State Department of Environmental
Conservation Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7012

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PE Certification:

I, Glenn Netuschil, certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Remedial Action Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10)

Glenn Netuschil, P.E., Senior Project Manager

1.0 GENERAL

1.1 Introduction

HRP Associates, Inc. (HRP) completed this Remedial Action Work Plan (RAWP) to support a New York State Department of Environmental Conservation (NYSDEC) proposed remedy to be implemented at the Former Raeco Products (Raeco) Site (Site #828107), located at 24 Spencer Street, Rochester, New York. A Site location map is included on Sheet 1 of the Drawings included in **Appendix A**. This RAWP has been prepared in accordance with the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (DER-10, May 2010) to implement the installation of soil vapor extraction (SVE) and Site cover systems as outlined in the NYSDEC Record of Decision (ROD), dated March 2010.

The NYSDEC has selected soil vapor extraction (SVE) as the remedy to address volatile organic compounds (VOCs) in Site soils. Elements of the selected remedy have been partially implemented through the installation of a passive SVE system. The scope of this RAWP is to implement an expanded active SVE system at the Site based on the SVE pilot test that was discussed in the Basis of Design Report (BODR). In addition, a surface cover (permeable asphalt pavement) will be installed. This RAWP includes drawings with specifications to implement the proposed remedy for the Site. The ROD and the BODR are included in the Relevant Site Data Documents, **Appendix B.**

Section 1.0 of this RAWP includes a Site background, geology, a summary of previous investigation and previous remedial actions, Remedial Action Objectives (RAOs), standards criteria and guidance (SCGs), and the general responsibilities of NYSDEC, HRP, and the NYSDEC call-out contractor selected to perform the work (the Contractor). Section 2.0 consists of a detailed SOW for the remedial excavation. Section 3.0 consists of a summary of the overall remedial program including descriptions of each of the remedial actions to be performed, institutional controls, and remedial program documentation including the Site Management Plan (SMP) and Final Engineering Report (FER). A preliminary project schedule and listing of project contacts are included in Section 4.0 and Section 5.0 respectively.

1.2 Site Background

The 3.19 acre Site is currently used for a commercial business known as Ideal Tree Service. The Site has four buildings present on the property. During the Pre-Design Investigation (PDI) conducted in 2021 (and documented in the BODR), Buildings A and B appeared to be abandoned, and not currently occupied. Building D is being used as storage, and Building F is used as a garage/shop for Ideal Tree Service. The Site layout is depicted in Figure 2 of the BODR (**Appendix B**)

Previous investigations were conducted to define the nature and extent of impacts to soil, groundwater, and soil vapor. These investigations identified SVOCs and metals in Site surface soils at concentrations exceeding SCGs. VOCs, including chlorinated VOCs and petroleum related compounds were detected above applicable SCGs in subsurface soils, groundwater and soil vapor

on-site. Additional discussion of the nature and extent of Site contamination, including tables and figures depicting the locations and concentrations of contaminants are included in the BODR (**Appendix B**).

Previous remedial actions completed at the Site include the installation of two passive SVE systems consisting of four horizontal SVE (HSVE) laterals equipped with solar powered exhaust fans. The two existing HSVE systems were installed south of Building D (North HSVE) and west of Building B (South HSVE). The North HSVE system consists of a deep HSVE well placed at 8 ft bg and a shallow HSVE well placed at 7.5 ft bg. The South HSVE system is located on the western exterior side of Building B. The South HSVE system consists of a deep HSVE well placed at 11.5 ft bg and a shallow HSVE well placed at 5.0 ft bg. In June 2021 HRP performed a SVE System Pilot test which incorporated the South HSVE laterals and a one vertical SVE well (SVE-1). Based on the Pilot Test results the shallow HSVE lateral produced an estimated radius of influence (ROI) of 12-15 ft, while the deep HSVE lateral and SVE-1 produced a ROI of 0 ft. Further discussion of the SVE pilot test results are included in the BODR (**Appendix B**).

1.3 Site Geology and Hydrogeology

The Site is relatively flat with an elevation of approximately 460 feet above mean sea level (amsl). Topography at the Site dips slightly to the east/northeast across the Site. The eastern edge of the Site slopes to a cliff face that forms the Genesee River gorge.

During previous investigations, bedrock was encountered at depths ranging from 10 to 20 feet below grade (ft bg). Shallow overburden soil at the Site was reported to be primarily fill material, described as silty sand and gravel with some miscellaneous construction and demolition debris including brick, concrete, wood, and ash fragments. Deeper overburden soil was previously reported as silty clays and silty fine sands. Gravelly sands and clays were also noted at some areas of the Site. A non-confining clay layer of varying thickness was previously reported immediately above the dolomite bedrock surface.

According to the United States Department of Agriculture Natural Resources Conservation Service Web Soil Survey, 100% of the Site area is mapped as Urban Land, "Ub".

Groundwater at the Site was generally not observed in the overburden except in the case of perched groundwater. Perched groundwater was found within gravelly overburden soils in areas where depth to bedrock exceeded 20 ft bg, and at a nonconfining clay layer situated immediately above the bedrock. The depth to groundwater in three bedrock monitoring wells ranged from approximately 20 to 42 feet ft bg. During previous investigations, significant water producing fractures were noted at 40 to 50 ft bg. Shallow bedrock groundwater is understood to recharge from the central portion of the Site, with groundwater flowing radially from the central area of the Site to the Genesee River and surrounding area. Groundwater at the Site has a vertically downward gradient toward the adjacent Genesee River, which is situated approximately 70 ft below Site grade.

1.4 Remedial Action and Green Remediation Objectives

Remedial Action Objectives (RAOs) established for the Site represent media-specific goals that are protective of public health and the environment that have been developed through consideration of the results of the Site investigation activities and with reference to potential SCGs, as well as current and foreseeable future anticipated uses of the Site. The RAOs were presented in the ROD have been used in the preparation of this RAWP.

RAOs for the Site established as a part of the ROD to protect public health include:

- Prevent people from drinking groundwater with contaminant levels exceeding drinking water standards;
- Prevent contact with contaminated drinking water;
- Prevent inhalation of contaminants from groundwater;
- Prevent ingestion/direct contact with contaminated soil;
- Prevent inhalation of contaminants volatilizing from the soil; and
- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into the indoor air of buildings at, or near a Site.

The RAOs for the Site established as a part of the ROD to protect the environment include:

- Restore the groundwater aquifer to meet ambient groundwater quality criteria, to the extent feasible; and
- Prevent migration of contaminants that would result in groundwater or surface water contamination.

In addition to remedial objectives to protect human health and the environment, it is the policy of NYSDEC approach remediation projects in in a way that minimizes the environmental footprint of a clean-up action. This concept, outlined in DEC Program Policy 31, is referred to as "Green Remediation". Further, *Commissioner's Policy CP-75 – DEC Sustainability*, seeks to have NYSDEC continue its "lead by example" approach to accelerate and guide the transition to the low-carbon sustainable economy of the future. In consideration of these goals, the following Green Remediation Objectives have been identified and applied to this remedial design:

- Minimizing air emissions including greenhouse gas emissions;
- Increasing infrastructure resilience and green infrastructure;
- Waste minimization;
- Green procurement;
- Species and habitat protection;
- Water conservation; and
- Educational programming and outreach.

1.5 Standards, Criteria, and Guidance

SCGs are to be used to evaluate soil confirmation samples collected as part of the shutdown criteria for the proposed SVE system. Specifically, VOC concentrations are to be compared to Commercial Use Soil Cleanup Objectives (CU SCOs) as defined in 6 NYCRR Part 375-6, "Remedial Program Soil Cleanup Objectives". In addition, CU SCOs are to be used in evaluating imported materials to be used as backfill for SVE trenches and Site grading related to the installation of the Site cover system.

1.6 Roles and Responsibilities

1.6.1 Responsibilities of the Contractor

The Contractor will, in general, be responsible for the following:

- Provide labor, equipment, and materials necessary to execute the selected elements of the remedy outlined in this RAWP.
- Complete the work in accordance with NYSDEC DER-10, Occupational Safety and Health Administration (OSHA) regulations, and other applicable, local, state and federal regulations.
- The Contractor will ensure that on-site personnel have OSHA 40-hour training (in accordance with 29 Code of Federal Regulations (CFR) 1910.120 and corresponding 8-hour refresher updates).
- Develop and implement a Work Plan submitted and approved by HRP and NYSDEC prior to mobilization. The Work Plan will include but not be limited to:
    - Health and Safety Plan (HASP), per 29 CFR 1910 and 29 CFR 1926;
    - Community Air Monitoring Plan (CAMP), per NYSDEC DER-10.
    - Construction Stormwater Pollution Prevention Plan (SWPPP), per NYS regulations which require such a plan if an area of land greater than one acre is to be disturbed (applicable to grading related to installation of the Site cover system only).
- Implement the work as described in the specifications and drawings of this RAWP.
- Implement the CAMP at the perimeter of the Site boundaries and maintain total particulates level below the levels as stated in NYSDEC DER-10.
- Conduct pre-construction and post-construction meetings with HRP and NYSDEC oversight.

- The Contractor shall be responsible for the means, methods, techniques, sequences and procedures necessary to complete the remedial components in an efficient and timely fashion.

- Obtain any required permits needed, including permits at the municipal, state, and federal level.

- Coordinate with HRP, the property owner, NYSDEC, the City of Rochester Building Codes Department, as well as owners and/or operators of underground facilities, as necessary, to complete required work activities.

- Contact Dig Safe New York, and other utility owners to identify potential underground utilities located within the Site boundaries, prior to any intrusive work, including drilling and injection activities.

- Confirm the location of utilities prior to initiation of any on-site work.

- Notify HRP, NYSDEC, and utility owner (in writing) if an underground utility is uncovered or revealed at or contiguous to the Site, which was not shown or indicated in the SOW. During such time, the Contractor shall be responsible for the safety and protection of such underground facility.

- Perform all survey work necessary for the completion of the work scope and provide survey data to HRP for inclusion in "as-built" drawings and plans. Features to be surveyed will include but not be limited to:

    - Location of the proposed SVE system components; and
    - Final grade of the Site.

- Collect waste characterization samples for laboratory analysis and submit results to HRP and NYSDEC for review and approval.

- Collect samples for laboratory analysis pursuant to characterization of materials to be reused or imported to the Site, including backfill materials, and submit results to HRP and NYSDEC for review and approval.

1.6.2 Responsibilities of NYSDEC

The NYSDEC is responsible for the administration of the project contract and coordination with HRP. NYSDEC will receive and review daily reports from HRP's on-site construction inspector, coordinating review and changes to the design/SOW with all parties, and coordinate access to the remedial site.

1.6.3 Responsibilities of HRP Associates, Inc.

HRP will provide dedicated full-time on-site construction management and engineering support during implementation of the remedy, reporting to NYSDEC Project Manager, Ms. Brianna Scharf. HRP will perform daily inspections which will include monitoring the contractor's performance and handling of any hazardous or potentially hazardous materials during the work. HRP will also provide oversight of the contractors CAMP during intrusive Site activities. All plans, specifications, and submittals from the contractor will be reviewed by HRP.

HRP will host regular progress meetings and provide minutes to NYSDEC and the contractor for review and concurrence. Work will not begin until approval has been granted by HRP and the NYSDEC.

Following completion of the remedy, HRP will prepare and submit a Site Management Plan (SMP) detailing restrictions on Site use and Site monitoring requirements, and a FER documenting all remedial actions completed at the Site as described in **Section 3.0** below.

2.0 DESCRIPTION OF WORK TASKS

This section presents a task-by-task description of the Contractor's responsibilities for the installation of the HSVE and Site cover systems. The Contractor's activities will be implemented under the following general work tasks:

- Work Task 1 – Mobilization, Demobilization and Site Preparation
- Work Task 2 – SVE Trench and System Installation
- Work Task 3 – Soil Boring Installation and Sampling
- Work Task 4 – Site Cover System Installation

Drawings depicting the Site layout including approximate limits of the impacted soil and other pertinent features, and construction details are included as **Appendix A**. An Engineer's Cost Estimate for the Contractor's responsibilities is included in **Appendix C**.

2.1 Mobilization, Demobilization and Site Preparation

The Contractor will be responsible for conducting the following activities under this work task:

- Preparation, submittal, and revision (if needed) of relevant planning documents including work plans, schedules, material specifications and cut sheets, drawings, and any other necessary information required by this RAWP, information presented on the Drawings, or requested by HRP or NYSDEC.

- Procurement of necessary local, state, and federal permits.

- Attendance of a pre-construction meeting, daily health and safety meetings, periodic coordination meetings, and a post-construction meeting.

- Mobilization/demobilization of equipment, labor, and materials necessary to complete remedial tasks.

- Furnish and maintain temporary construction facilities to support remediation activities.

- Abandon all monitoring wells within construction limits and protect monitoring wells outside of construction limits.

- During mobilization, demobilization, and site preparation the contractor will implement, at a minimum, the following green remediation BMPs:

    - Use of Ultra Low Sulphur Deisel fuel
    - Construction equipment shall not be permitted to idle for longer than five minutes

Additional details for these activities are presented in the following sections.

2.1.1 Preparation and Review of Planning Documents

The Contractor shall submit appropriate planning documents to HRP and NYSDEC for review. The Contractor shall finalize the documents submitted based on comments provided by HRP and NYSDEC. Contractor shall not mobilize until planning documents have been reviewed and approved by HRP and NYSDEC.

The selected Contractor shall prepare work plans including, but not limited to:

- A full project schedule, including the length of time it will take for the Contractor to complete each individual work activity.
- Sequence of operations and proposed hours of operation. Normal working hours shall be defined during the pre-construction meeting, or if none are set forth, shall be defined as beginning no earlier than 7:00 a.m. and ending at no later than 5:00 p.m.
- Means and methods of SVE system installation.
- Characterization and waste profile for each waste stream. Identification of proposed disposal facilities, including letters of commitment and operating licenses.
- HASP:
    - The health and welfare of the Contractor's staff is the direct responsibility of the Contractor. The Contractor shall take necessary precautions for the health and safety of all on-site, per 29 CFR 1910 and 29 CFR 1926.
    - Contractor employees in compliance with applicable provisions of federal, state, and local health and safety laws; and provisions associated with the Contractor's site-specific HASP.
    - The Contractor shall designate a responsible representative at the Site to act as the Site's Health and Safety officer whose duties include executing and ensuring compliance with the approved HASP.
    - As part of the HASP, the Contractor shall prepare a plan to manage and minimize the potential for transmission of the Severe Acute Respiratory Syndrome Coronavirus (SARS-CoV-2) virus, (and variants) which causes the Novel Coronavirus Disease 2019 (COVID-19) in accordance with the General Specification Section 01 35 33 – COVID-19 Risk Management (**Appendix D**).
- A Construction Stormwater Pollution Prevention Plan (SWPPP) for Site grading related to installation of the Site cover system.

- A CAMP requiring real-time monitoring for particulates (i.e., dust) and prepared in accordance with NYSDEC DER-10: The CAMP will be used to confirm that work activities do not spread environmentally impacted materials off-site through the air. The Contractor shall provide a daily data submittal from real-time monitoring.

- Proposed method(s) of decontamination procedures for Contractor's small equipment and hand tools, waste material and personal protective equipment, and large equipment and vehicles.

The Contractor shall revise the required submittals as necessary to address comments from HRP and NYSDEC. The Contractor shall submit the revised and/or final submittals to HRP and NYSDEC. HRP and NYSDEC's review do not relieve the Contractor of any responsibility to comply with applicable laws, rules, regulations, or agreements.

2.1.2 Project Meetings

The Contractor shall be responsible for coordinating (as necessary) and attending project meetings as described below.

- Pre-Construction Briefing **-** Prior to contractor mobilization, a pre-construction meeting will be held at the Site to introduce the project team members representing the Contractor, NYSDEC, and HRP. The meeting will be scheduled by HRP. The meeting will be conducted to review the SOW requirements; review responsibilities of HRP and the Contractor; establish a detailed schedule of operations including definition of normal working hours; and resolve issues (if any) raised by attending parties. HRP will prepare a summary of the pre-construction meeting. A copy of this summary will be provided to each of the parties in attendance.

- Daily Health and Safety Meetings **-** The Contractor shall be responsible for coordinating daily health and safety meetings, which will be attended by all Contractor personnel to discuss day to day project-related health and safety issues. NYSDEC and HRP reserve the right to attend daily health and safety meetings.

- Weekly Project Coordination Meetings - Weekly meetings will be held among on-site and off-site representatives of the Contractor, NYSDEC, and HRP to discuss issues including, but not limited to, project status, schedule, SOW, and overall project implementation issues.

- Final Inspection **-** Following final completion of the SOW, an inspection meeting will be held at the Site with the Contractor, NYSDEC, and HRP.

2.1.3 Mobilization and Site Preparation Activities

The Contractor shall initiate Site mobilization activities no later than four weeks after required submittals have been reviewed and approved by HRP and NYSDEC. The Contractor shall be responsible, at a minimum, for the following mobilization tasks:

- Procurement of all necessary local, state, and federal permits.

- Coordinating access to water and electrical service (if required). Access to various municipal structures (i.e., hydrants, valves, manholes, fire alarms, etc.) shall not be obstructed by the Contractor to prevent use. The Contractor shall secure any required permits from the local water authority and be responsible for installing a backflow preventer and water meters on any hydrant used to supply water to the Site. The Contractor shall also be required to provide sanitary facilities for the duration of the Site work.

- Verifying the existing Site conditions and identifying and marking the location(s) of all aboveground and underground utilities, equipment, and structures, as necessary to implement the work scope.

    - Prior to commencing on-site activities, the Contractor shall contact Dig Safe New York to obtain utility clearances. The Contractor shall be responsible for coordinating with the applicable utility companies, City of Rochester, and HRP to ensure proper location of utilities. The Contractor shall also obtain and pay for necessary permits to complete the work, if applicable.

    - If the Contractor damages existing utilities, equipment, or structures, the Contractor is responsible for notifying the appropriate utility company, HRP, and NYSDEC, and fully repairing damages at no additional cost to NYSDEC or HRP. Repairs, if necessary, shall be completed in accordance with requirements of the utility company and to the satisfaction of NYSDEC and HRP.

- Mobilizing equipment, and materials to the Site as necessary to implement the remedy. Equipment mobilized to the Site will be subject to a visual inspection by HRP. Equipment that arrives at the Site in unsatisfactory condition (e.g., soiled, poor operating condition, etc.), in the opinion of HRP, shall be removed from the Site and replaced by the Contractor at no additional cost to NYSDEC. The Contractor shall be responsible for providing labor, equipment, and materials needed to conduct decontamination activities (as necessary) of personnel and equipment associated with remedial activities outlined in the SOW.

- Completing Site preparation activities including but not limited to:

    - Constructing additional remedial support area(s), on-site staging area(s), and decontamination area(s) on the property in accordance with the provisions of the reviewed documentation and plans. On-site staging areas shall have adequate capacity for stockpiling backfill materials and/or excavated soils designated for off-site disposal.

    - Waste stream characterization, including materials identified for recycling, including identification of waste streams generated as a result concrete slab demolition, UST removal, and soil excavation. The Contractor shall submit waste profiles for each sampled and identified waste stream to HRP and indicate the proposed disposal facility the waste will be transported.

    - For Site cover system installation - Installation of erosion and sediment controls, as specified in the Contractor's Construction SWPPP. The Contractor shall be responsible for the maintenance of these controls throughout the duration of the work.

- Construction of a decontamination pad in an area approved by HRP. Decontamination procedures shall include scraping equipment of residual debris and a hot-water pressure washing of drilling equipment and injection equipment, as needed. Any decontamination fluids shall be containerized in an appropriate container for characterization and disposal off-site.

- Mobilize equipment related to CAMP monitoring and response actions, including VOC and dust monitoring equipment and a water truck for wetting down the Site.

- Establish Site sanitary facilities, if necessary.

- Abandon all monitoring wells within construction limits and protect monitoring wells outside of construction limits at the direction of HRP and NYSDEC. Monitoring wells should be abandoned in accordance with NYSDEC Commissioner's Policy (CP) CP-43. It should be noted several monitoring wells installed during previous investigations could not be located during the PDI conducted in 2021. Figure 3 of the BODR (included in the Relevant Site Data Documents in **Appendix B**) depicts monitoring well locations and historic locations of monitoring wells which could not be located or were found to be destroyed.

- Demobilization activities to be conducted by the Contractor include, at a minimum, decontamination, dismantling and removal from the site of all equipment, additional materials not used by the Contractor, and other support services.

2.2 Work Task 2 – SVE Trench and System Installation

Based on the estimated ROI determined during the SVE pilot test and the location of subsurface soils which require treatment, the locations of the existing shallow HSVE laterals are not sufficient to address the entire treatment area. As a result, an additional HSVE lateral will be installed to the east of Building D. The proposed SVE system will consist of the existing shallow HSVE laterals, the proposed HSVE lateral, underground vapor conveyance piping, a blower, vapor phase granulated activated carbon (VPGAC) treatment units, and vertical discharge stacks. The proposed system layout is depicted on Sheet S-1 of the Drawings included in **Appendix A**.

The Contractor will be responsible for conducting the following activities under this work task:

- Excavation of trenching for the proposed HSVE and system conveyance pipes.
- Transportation and off-site disposal of excavated soils.
- Installation of SVE piping, blower, and VPGAC units and system plumbing.
- During SVE Trench and System Installation the contractor will implement, at a minimum, the following green remediation Best Management Practices (BMPs):
    - Use of Ultra Low Sulphur Deisel fuel
    - Construction equipment shall not be permitted to idle for longer than five minutes
    - The disposal of excess soil should be minimized through the strategic use of native material for backfill.

Additional details for these activities are presented in the following sections.

2.2.1 Trenching Excavation

The proposed SVE system will require excavation of trenches for the installation of the proposed HSVE lateral east of Building D and subsurface conveyance piping connecting the proposed and existing HSVE laterals to the blower and VPGAC units. The proposed HSVE lateral trench is to be installed to a depth of approximately 8 ft bg. Other subsurface piping is to be installed to a depth of approximately 2 ft bg. The locations of the proposed trenches are depicted on Sheet S-1 and details for their installation are depicted on Sheet D-1 of the Drawings (**Appendix A**). Additional notes and specifications are included on Sheet S-2 of the Drawings (**Appendix A**).

The Contractor shall select the most appropriate equipment, along with the means and method for completing the trench excavations. Any excavation greater than 5 ft bg will be conducted in accordance with OSHA excavation and shoring standards (particularly 29 CFR 1926.650-652 and other applicable subparts).

Groundwater has generally not been observed in overburden soils at the Site except in the case of perched groundwater. Therefore, it is not anticipated that dewatering will be required as part of the trench excavation.

The size and location of any needed stockpile(s) shall be determined by the Contractor. If needed stockpiles shall be constructed as follows:

- Excavated soil shall be stockpiled on 10-mil polyethylene sheeting if placed outside of the impacted area.
- Berms surrounding the stockpile shall be a minimum of 12 inches high.
- Stockpiles shall be covered with 10-mil polyethylene sheeting.

Stockpile details are depicted on Sheet D-1 of the Drawings included in **Appendix A**.

2.2.2 Transportation and Off-Site Disposal

An estimated total of 200 cubic yards (CY), or approximately 300 tons of soil will be generated from the SVE trench excavations. Based on concentrations of VOCs detected in soil samples collected during the PDI, it is anticipated the soil will be disposed of as hazardous waste. Soil sampling data from the PDI Report included in the Relevant Site Data Documents (**Appendix B**).

The Contractor shall submit all proposed disposal or recycling facilities to HRP and NYSDEC in Contractor's Work Plan for approval prior to beginning work on-site. If the selected landfill/disposal/recycling facility requires additional sample analysis, it is the Contractor's responsibility to collect the samples.

The Contractor shall be responsible for containerizing, transporting (including providing and preparing manifests, bills-of-lading, etc.), and disposing of all waste streams in accordance with all applicable federal, state, and local laws.

Copies of manifests or certificates of disposal shall be maintained by the Contractor at the Site and shall be provided to HRP and NYSDEC when received. The Contractor shall obtain documentation of weights for each waste shipment to the disposal facilities for invoice payment purposes. The documentation should present the weights of materials disposed at the facility for each manifest or bill-of-lading identification number. The Contractor shall promptly inform HRP and NYSDEC of any issues or discrepancies found in the waste transport and/or disposal process.

2.2.3 Installation of Underground SVE Piping

The Contractor shall be responsible for providing all labor, materials, means, and methods for installing subgrade SVE piping as specified in the Drawings included in **Appendix A**.

Due to the proposed length of the new HSVE lateral and to optimize the vacuum applied over the entire length of the trench, three screen lengths of approximately 50 feet long are proposed with each screened section separated from the other sections using a trench seal (bentonite). The layout of the proposed HSVE lateral is depicted in plan view on Detail 7 on Sheet D-1 (**Appendix A**). The HSVE lateral is to be constructed of 4-inch Schedule 40 PVC 0.020-inch slotted screen and solid pipe. The lateral will be backfilled with washed stone, and covered with a geotextile fabric, to minimize silt and clay particles from entering the well screen. Subgrade conveyance piping connecting the proposed and existing HSVE laterals to the blower will be constructed of 4-inch diameter Schedule 40 PVC solid pipe and may be backfilled with clean sand. The HSVE lateral and conveyance piping trenches are depicted in cross-section in Details 2 and 3 on Sheet D-1 (**Appendix A**).

All sources of imported material shall be approved by HRP and NYSDEC prior to being imported to the Site. Washed stone used for HSVE pipe bedding shall be imported from a NYSDEC permitted mine or quarry. Backfill material is to be characterized as per DER-10. The Contractor shall be responsible for collecting characterization samples and submitting them to an Environmental Laboratory Approval Program (ELAP) certified laboratory. Sampling should be performed according to the analyses and frequencies indicated in DER-10 Table 5.4(e)10. All backfill materials and topsoil must meet CU SCOs as defined in Part 375. Backfill materials shall also be tested for the PFAS perfluorooctanoic acid (PFOA) and perfluorooctane sulfonic acid (PFOS). PFOA and PFOS are not to exceed the respective CU guidelines of 500 micrograms per kilogram (μg/kg) and 440 μg/kg. All soil characterization sampling data is to be reviewed by HRP and the NYSDEC and is subject to their approval.

Following the completion of SVE system installation the Contractor shall survey the locations of the system including all underground HSVE laterals and conveyance piping as well as aboveground components. The Contractor shall provide all survey data to HRP for inclusion in "as-built" drawings and plans.

2.2.4 Installation of Aboveground Piping, SVE Blower, VPGAC Units and Monitoring Ports

The Contractor shall be responsible for providing all labor, materials, means, and methods for installing the SVE blower, VPGAC units, and aboveground piping as specified in the Drawings included in **Appendix A**.

The two existing HSVE laterals (North HSVE and South HSVE) and the proposed HSVE lateral are to be manifolded together using aboveground piping that will connect directly to the HSVE blower. The riser from each HSVE lateral will be equipped with valves to control the vacuum and flow from each lateral individually. The discharge from the blower will be treated by two 1,000-pound VPGAC vessels plumbed in series. The discharge of the VPGAC units will be connected to the existing aboveground vertical riser piping from the North HSVE lateral that is attached to the Building D. The existing solar fan will be removed to convert the vertical riser to a discharge stack, so that treated vapor will be discharged above the roofline of Building D. The shallow South HSVE is to be disconnected from the existing vertical risers on Building B and is to be plumbed to the

SVE blower via underground piping. The riser from the deep HSVE and risers attached to the roof of Building B are to be cut and capped.

All aboveground SVE plumbing is to be constructed of Schedule 40 PVC pipe and fittings. The proposed locations of each of the HSVE laterals, the SVE blower, the VPGAC units, and discharge stacks are depicted on Sheet S-1 (**Appendix A**). Details 5 and 6 on Sheet D-1 depict aboveground plumbing to the SVE blower and discharge stacks as well as details for cutting and capping risers.

The Contractor shall be responsible for purchasing and installing the SVE blower and connecting it to existing on-site electrical service. The SVE blower will be a 5 horsepower (Hp) regenerative blower (Ametek Rotron Model EN757F72XL or approved equal) capable of a maximum discharge of 295 standard cubic feet per minute (scfm) and maximum vacuum of 92.5 in. w.c. The SVE blower will include a 7-gallon knockout drum with a high water level alarm (Ametek Rotron Model MS200P or approved equal), a vacuum relief valve, gauges, and necessary piping and fittings (including a manual dilution valve). The SVE blower will be housed in a weather tight enclosure (Dwyer D-100HDS or approved equal) installed on prepared surface (compacted gravel). The electrical service to operate the SVE system equipment will be obtained from the existing power located on-site. The electrical conduit servicing the blower shall be sized for 115/230 volt, 3-phase, 30 amps, and 60 hertz. Controls and instrumentation for operation of the SVE system will be located in a control panel to be installed on the skid-mounted SVE system equipment. The SVE blower is to discharge to two 1,000-pound VPGAC units (Triggs model EV-100 or approved equal) plumbed in series.

Additional details and specifications for the SVE blower and VPGAC units are included on Sheets S-2 and D-1 of the Drawings included in **Appendix A**.

Monitoring ports shall be installed in aboveground piping throughout the system. Each set of monitoring ports will include a pitot tube, vacuum gauge, and sampling valve. One complete set of monitoring ports shall be installed on piping the in each of the following aboveground locations:

- SVE Blower Influent
    - North HSVE Riser
    - South HSVE Riser
    - Proposed HSVE Riser
    - SVE Manifold
- VPGAC Influent (effluent of blower)
- VPGAC Midfluent
- VPGAC Effluent

2.3 Work Task 3 – SVE Operation & Maintenance

The Contractor shall be responsible for providing all labor, materials, means, and methods for the start-up and operation, maintenance, and monitoring (OM&M) of the SVE system. All OM&M data is to be submitted to HRP, NYSDOH, and NYSDEC for review. Based on review of OM&M data HRP and NYSDEC will delegate SVE maintenance activities.

The Contractor shall conduct OM&M visits according to the schedule presented below.

OM&M Schedule

Monitoring Criteria	Monitoring Period	OM&M Visit Frequency
Vacuum Readings	First Month of Operation	Weekly
	Second Month of Operation	Bi-weekly
	Third Month of Operation and Thereafter	Monthly
System Air Flow	First Month of Operation	Weekly
	Second Month of Operation	Bi-weekly
	Third Month of Operation and Thereafter	Monthly
PID	First Month of Operation	Weekly
	Second Month of Operation	Bi-weekly
	Third Month of Operation and Thereafter	Monthly
VPGAC Effluent Samples	Throughout Operation	Bi-monthly

SVE OM&M activities will continue throughout the operation of the system, until shutdown criteria are met as described in **Section 3.0** below. Based on the Site related soil impacts, a significant reduction in VOC mass is expected within an operational period of an approximately six months to one year.

2.4 Work Task 4 – Subsurface Soil Sampling

Following SVE system shutdown as determined by HRP and NYSDEC's review of OM&M data (as described in **Section 3.0** below), subsurface soil samples will be collected to determine the effectiveness of the SVE in removing VOCs from on-site soils.

The Contractor shall be responsible for providing all labor, materials, means, and methods for the subsurface soil sampling. Two soil borings (SVE-B-1 and SVE-B-2) are to be installed within the SVE treatment areas. The proposed soil boring locations are depicted on Sheet S-1 of the Drawings included in **Appendix A**.

All soil sampling shall be performed by the Contractor under the oversight of HRP and NYSDEC. Soil borings shall be installed to a target depth of 10 ft bg using a direct push drill rig. Soil samples shall be collected continuously and logged according to soil grain size, moisture, color, and compaction. Presence of staining, odor, non-aqueous phase liquid (NAPL), and non-soil fill materials are also to be logged. In addition, soils will be screened continuously using a calibrated PID. The Contractor will select samples for laboratory analysis from depths of the SVE treatment zone (approximately 5-8 ft bg) and according to field observations. The Contractor shall submit all samples to an ELAP certified laboratory for analysis of VOCs via EPA Method 8260. All laboratory analytical data will be submitted to HRP and NYSDEC for review.

Soil sampling results will be compared to CU SCOs as the applicable SCGs for Site soils. If in soil sample analytical results indicate VOC concentrations meet Commercial Use Soil Cleanup Objectives (CU SCOs) the SVE system will be permanently shut down. If VOC concentrations do not meet CU SCOs the SVE system will be restarted, and Operations and Maintenance (OM&M) will continue. This iterative approach to determining when the SVE should be shutdown will be repeated as necessary until cleanup objectives are met or until it is determined that further operation of the SVE system will not result in any additional effective cleanup.

- During Subsurface soil sampling the contractor will implement, at a minimum, the following green remediation BMPs:

    - Use of Ultra Low Sulphur Deisel fuel
    - Construction equipment shall not be permitted to idle for longer than five minutes
    - The disposal of excess soil should be minimized through the strategic use of native material for backfill.

2.5 Work Task 5 – Install Site Cover System

In order to eliminate exposure of receptors to contamination in surface soils (top one foot of soil), a cover system is to be installed over areas of the Site. The Site cover is to consist of a permeable asphalt pavement designed to facilitate positive drainage and provide a suitable surface for any traffic or future use of the Site. A demarcation layer consisting of geotextile fabric will be placed over the Site native soil prior to the installation of the permeable asphalt. A cross-section of the proposed permeable asphalt cap is depicted in Sheet D-1 of the Drawings (**Appendix A**). Based on surface soil sampling completed for the PDI and previous investigations, surface soil which does not meet CU SCOs covers an estimated area of 76,050 square feet. This area is depicted on Figure 4 of the BODR, included in the Relevant Site Data Documents in **Appendix B**.

The timing of the design and placement the permeable asphalt pavement will be based on the schedule of the proposed SVE installation of the SVE system. After the SVE system is installed, a Site topographic survey will be completed, and a grading plan will be prepared to complete the final design of the permeable asphalt pavement.

Once the final design for the Site cover system is approved, the Contractor will be responsible for providing all labor, materials, means, and methods for the construction of the cover system. Work to be completed under this task is to include preparing construction SWPPP, Site grading, installation of the demarcation layer subbase, and permeable asphalt, and conduct all surveying during and after installations. It is anticipated that the use of permeable pavement as designed will effectively handle Site stormwater drainage and therefore subgrade drainage systems will not be needed.

- During Site Cover System Installation, the contractor will implement, at a minimum, the following green remediation BMPs:

- Use of Ultra Low Sulfur Deisel fuel
- Construction equipment shall not be permitted to idle for longer than five minutes.
- Implement the dust control measure outlined in the CAMP.

3.0 REMEDIAL PROGRAM SCOPE

The SVE system and Site cover system installation described in this SOW are one element of the remedial program selected for the Site as memorialized in the ROD. The proposed remedy for the Site will consist of the installation and operation of an SVE system placement of the cover system (permeable asphalt pavement) over the Site, institutional controls & engineering controls (IC/EC), a SMP, and Final Engineering Report (FER).

3.1 SVE System

Installation of a SVE system as described in the SOW above. The SVE system will consist of the existing shallow HSVE laterals, the proposed HSVE lateral, underground vapor conveyance piping, a blower, two 1,000-pound VPGAC treatment units, and vertical discharge stacks. The SVE system will be monitored in regularly scheduled OM&M visits to include collection of vacuum, air flow, and PID readings, as well as effluent air samples. VOC mass removal rates will be calculated based on OM&M data. Mass removal rates will be used to determine the need for continued use of the VPGAC units as well as overall operation of the system. The SVE system will be operated until VOC mass removal is reduced to an asymptotic rate of less than 10 pounds per month. At that time subsurface soil samples will be collected from the SVE treatment area for comparison to CU SCOs as the applicable SCGs for Site soils. If in soil sample analytical results indicate VOC concentrations meet CU SCOs the SVE system will be permanently shut down. If VOC concentrations do not meet CU SCOs the SVE system will be restarted and OM&M will continue. This iterative approach to determining when the SVE should be shutdown will be repeated as necessary until cleanup objectives are met or until it is determined that further operation of the SVE system will not result in any additional effective cleanup.

3.2 Site Cover System

To prevent human contact with contaminated surface soil, a cover system in the form of a permeable asphalt pavement will be installed as described in the SOW above. The Site cover is to consist of a permeable asphalt pavement designed to facilitate positive drainage and provide a suitable surface for any traffic or future use of the Site. A demarcation layer consisting of geotextile fabric will be placed over the Site native soil prior to the installation of the permeable asphalt. Based on surface soil sampling completed for the PDI and previous investigations, surface soil which does not meet CU SCOs covers an estimated area of 76,050 square feet. This area is depicted on Figure 4 of the BODR, included in the Relevant Site Data Documents in **Appendix B**. OM&M of the Site cover system will consist of periodic inspects to ensure the Site cover remains intact and completion of any necessary repairs.

3.3 Institutional and Engineering Controls (IC/EC)

Institutional controls in the form of an environmental notice is currently established at the Site. Future institutional controls will include the establishment of an environmental easement. Establishment of an environmental easement for the controlled property requires the remedial party or Site owner complete and submit to the Department a periodic certification of institutional

and engineering controls in accordance with Part 375-1.8 (h)(3). The remedy allows land use and development of the controlled property for commercial or industrial use. The easement shall restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDEC, NYSDOH, or County DOH.

Additionally, the easement will require the NYSDEC and/or remedial party or Site owner to maintain engineering controls installed at the Site. Such easement would require NYSDEC to operate and maintain the HSVE system. The remedial party or Site owner would be required to complete the NYSDEC EC/IC form, maintain the Site cover, and any Sub-slab Depressurization (SSD) systems present at the Site. The easement shall also require compliance with an NYSDEC-approved SMP.

3.4 Site Management Plan (SMP)

The remedial design will require that a SMP be prepared for the Site. The SMP will be consistent with the applicable requirements of DER-10 Section 6.2, and in a format generally consistent with the NYSDEC's SMP template. As indicated in the ROD, the SMP will consist of the following:

- Institutional and Engineering Controls Plan – describes the use restrictions and engineering controls that will be established.
- Monitoring Plan – used to assess the performance and effectiveness of the remedy. The SMP will include requirements for post-remedial action groundwater monitoring, as well as Site inspection schedules, and NYSDEC reporting requirements.
- Operation and Maintenance Plan – to assure continued operation, maintenance, monitoring, inspection, and reporting for mechanical and physical components of the remedy.
- Climate Resiliency Plan – used as a framework to guide action, and to facilitate sustainability and green remediation, where applicable.

3.5 Final Engineering Report (FER)

All remedial actions taken at the Site will be documented in a FER. The FER will be prepared by HRP at the conclusion of the implementation of the remedy and will include the elements required in DER-10 section 5.8 (b)-(g).

3.6 Green Remediation and Sustainability

Green remediation best management practices (BMPs) identified for implementation during this project are detailed in **Table 1**. Implementing green construction BMPs listed in Section 2 during construction have the potential to reduce:

- CO_2 emissions from combustion sources by an estimated 13,329 pounds;
- SO_x emissions from combustion sources by an estimated 197 pounds; and
- An estimated 28.3 pounds of dust through dust control meaures.

Additionally, purchase of 100% wind energy from the local utility to operate the SVE system would result in an estimated further emission reductions of 6,427 pounds of CO_2, 1.2 pounds of SO_x, and 3 pounds of NO_x per year of system operation.

Regarding infrastructure resilience, the use of permeable pavement in the Site cover system will reduce stormwater runoff by an estimated 70%; this equates to a reduction of 105,000 gallons of runoff during a 1.5 inch/hour storm with a two-hour duration. Assuming a typical sediment loading of 1,000 mg/L, sediment reduction would be reduced by an estimated 840 pounds. Finally, the use of passive groundwater sampling equipment during the monitoring phase would reduce plastic waste by 762 pounds compared to traditional sampling technologies.

4.0 PROJECT SCHEDULE

Preliminary schedules for completion of the remedial activities described in this SOW and the overall remedial design and construction of the selected remedy for the Site are presented in **Table 2** below. Prior to commencement of work the contractor responsible for performing the installation of the SVE and Site cover systems will prepare a detailed schedule for the SOW described in **Section 3.0** above.

Table 2 – Preliminary Remedial Action Schedule

Task	Sub-task	Duration (days)	Start	End
Complete SVE System Installation	Prepare and Revise RAWP	30	2/14/2022	3/14/2022
	Prepare and Revise All Call-Out Contractor Work Plans and Procurement of Relevant Permits	90	3/14/2022	6/13/2022
	Procurement of Proposed SVE System Equipment and Materials	45	6/13/2022	7/25/2022
	Mobilization and Site Preparation	4	7/26/2022	7/29/2022
	Trenching and Piping Installation	10	8/1/2022	8/12/2022
	Installation of SVE Equipment and Electrical Service	10	8/15/2022	8/26/2022
	Disposal of Excavated Soil	5	8/29/2022	9/2/2022
	Demobilization	5	9/5/2022	9/9/2022
SVE OM&M	Assumes mass removal will reach asymptotic levels below 10 pounds per month in 1 year	360	9/9/2022	9/9/2023
Subsurface Soil Sampling	Collect samples and review data	30	9/12/2022	10/12/2022
Construct Site Cap	Perform Site Survey and Prepare Site Grading Plan	60	10/12/2022	12/11/2022
Prepare and Revise SMP		90	12/11/2022	3/11/2023
Prepare and Revise FER		90	3/11/2023	6/9/2023

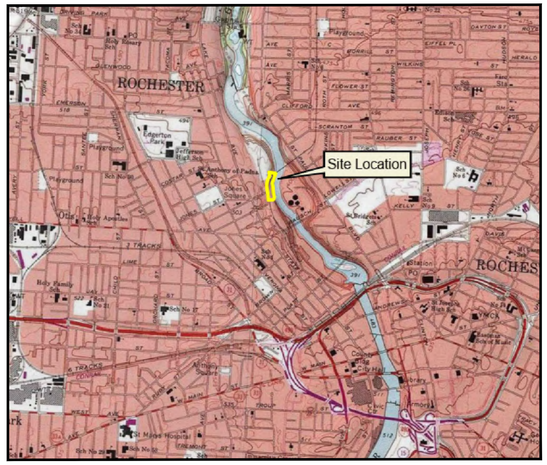
5.0 PROJECT CONTACTS

Project contacts for the NYSDEC and HRP are identified in **Table 3** below.

Table 3 – Project Roles and Contact Information

Name	Role	Email	Address	Phone
New York State Department of Environmental Conservation (NYSDEC)				
Michael Cruden	DEC Director, Remedial Bureau E	michael.cruden@dec.ny.gov	625 Broadway, Albany, NY 12233-7015	518-402-9814
Jeffrey Dyber	DEC Section Chief, Remedial Bureau E, Section D	jeffrey.dyber@dec.ny.gov	625 Broadway, Albany, NY 12233-7015	518-402-9813
Brianna Scharf	DEC Site Project Manager	brianna.scharf@dec.ny.gov	625 Broadway, 12th Floor, Albany, NY 12233-7017	518-402-9813
HRP Associates, Inc.				
Glenn Netuschil	Professional Engineer	Glenn.netuschil@hrpassociates.com	1 Fairchild Square, Suite 110 Clifton Park, NY 12065	518-877-7101
Mark Wright	HRP Project Manager	mark.wright@hrpassociates.com	1 Fairchild Square, Suite 110 Clifton Park, NY 12065	518-877-7101
Stefan Truex	HRP Project Consultant	Stefan.truex@hrpassociates.com	1 Fairchild Square, Suite 110 Clifton Park, NY 12065	518-877-7101
John Gorman	HRP Project Consultant	john.gorman@hrpassociates.com	1 Fairchild Square, Suite 110 Clifton Park, NY 12065	518-877-7101

APPENDIX A
Design Drawings



SITE LOCATION MAP
SCALE: 1" = 2000'

GENERAL NOTES

1. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES DISCOVERED DURING THE COURSE OF CONSTRUCTION SHALL BE PROMPTLY REPORTED TO THE ENGINEER.
2. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING, PRIOR TO BIDDING, THE LOCATIONS OF ALL UTILITIES AND SHALL BE RESPONSIBLE FOR ALL DAMAGE TO SAID UTILITIES. THE CONTRACTOR SHALL CONTACT "DIG SAFELY NT" (811), AT LEAST 72 HOURS PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ACTIVITIES WITH INDIVIDUAL UTILITY COMPANIES.
3. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT PROPER STORM DRAINAGE IS MAINTAINED THROUGHOUT CONSTRUCTION.
4. THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION AND SEDIMENT CONTROLS AS NECESSARY AND AS DIRECTED BY THE ENGINEER.
5. EXCAVATED MATERIAL SHALL BE STOCKPILED. STOCKPILED MATERIAL SHALL BE COVERED WITH 10-MILLIMETER POLYLINER AND PROTECTED DURING NON-WORKING PERIODS.
6. THE CONTRACTOR SHALL ENSURE ALL WORK DONE AS A PART OF THIS CONTRACT IS DONE WITHIN ALL APPLICABLE LAWS, CODES, AND REGULATIONS
7. CONTRACTOR TO ENSURE ALL APPLICABLE PERMITS ARE SECURED PRIOR TO INITIATING WORK.

FEBRUARY 2, 2022

FORMER RAECO PRODUCTS
HSVE TRENCH & SYSTEM INSTALLATION PLAN

24 SPENCER STREET,
CITY OF ROCHESTER, NEW YORK

HRP PROJECT NO. DEC1007.RA

Prepared By:

HRP
MOVE YOUR ENVIRONMENT FORWARD

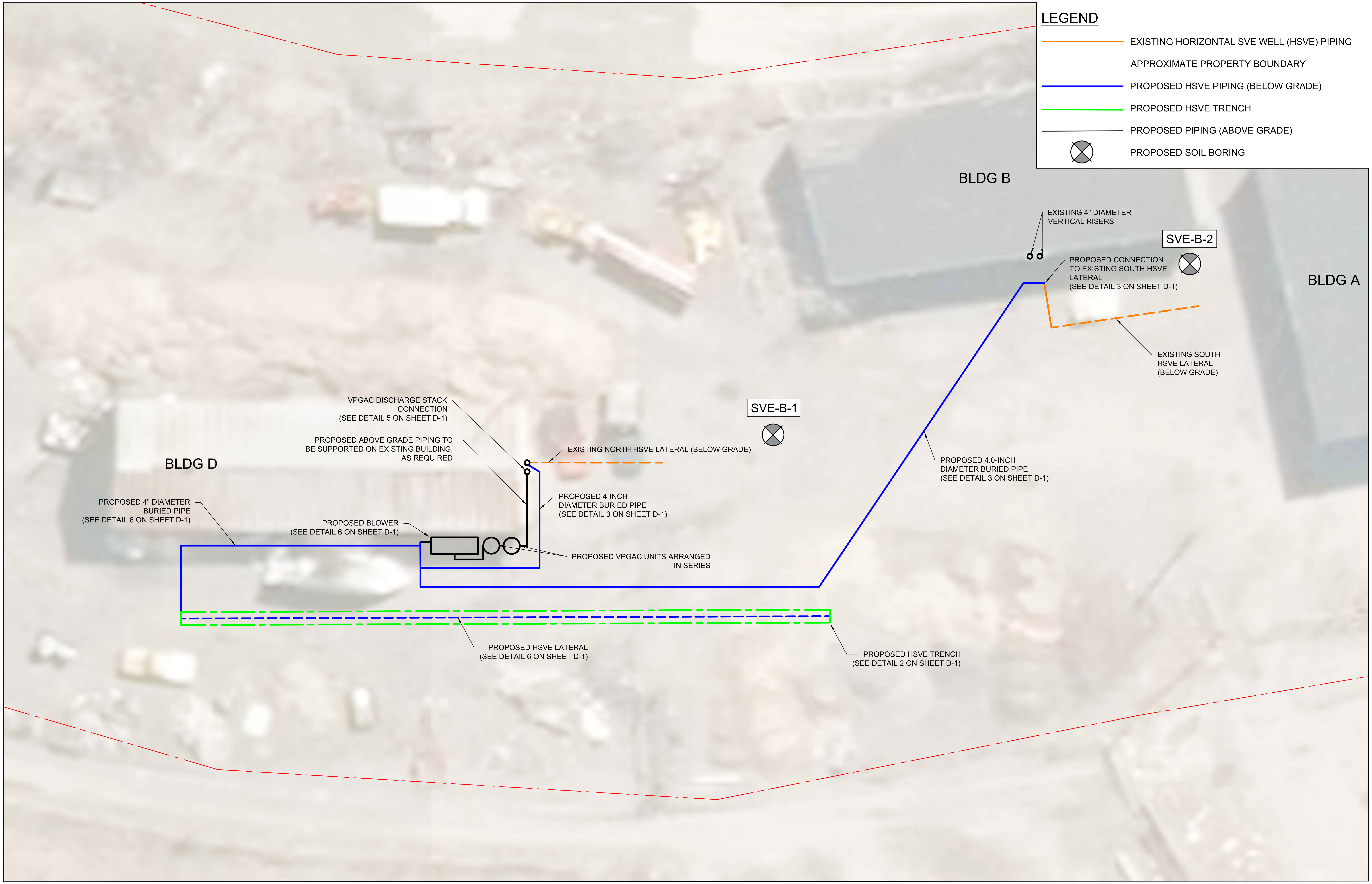
ONE FAIRCHILD SQUARE
SUITE 110
CLIFTON PARK, NY 12065
(518) 877-7101
HRPASSOCIATES.COM

Prepared For:

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 BROADWAY
ALBANY, NY 12233

SHEET INDEX

SHEET	TITLE / DESCRIPTION	CREATED	REVISED
	TITLE SHEET	02/03/2022	
S-1	SITE PLAN	02/03/2022	
S-2	NOTES	02/03/2022	
D-1	DETAILS	02/03/2022	



SITE LAYOUT
SCALE 1" = 10'
0 5' 10'

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NORTH

0 5' 10'

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 1" = 10'
ISSUE DATE: 02/03/2022
PROJECT NUMBER: DEC1007.RA
SHEET SIZE: 24"x36"
DESIGNED: SRT
DRAWN: SRT
REVIEWED:
APPROVED:

P.E. SEAL

FORMER RAECO PRODUCTS
24 SPENCER STREET
CITY OF ROCHESTER
NEW YORK

SITE PLAN

SHEET NO.
S-1

HSVE PIPING

1. UNLESS OTHERWISE SPECIFIED, USE ASTM D2241 SCH 40 PVC PIPE AND FITTINGS, WITH A PRESSURE RATING OF AT LEAST 160 PSI (1.10 MPA) AT 73ºF (23ºC).
2. PROVISION AND INSTALLATION OF PROPOSED HORIZONTAL SOIL VAPOR EXTRACTION LATERAL PIPING, CONSISTING OF 4-INCH DIAMETER SCHEDULE 40 PVC 0.020-INCH SLOTTED WELL SCREEN AND SOLID PIPE.
3. THE TRENCH FOR THE PROPOSED HSVE LATERAL TO BE INSTALLED TO A DEPTH OF APPROXIMATELY 8 FEET BELOW GRADE. THE TRENCH SHALL BE EXCAVATED BY THE CONTRACTOR AS SHOWN ON SHEET D-1. THE CONTRACTOR WILL BE RESPONSIBLE FOR SELECTING EXCAVATION PROCEDURES THAT WILL PERMIT CONSTRUCTION OF THE TRENCH AS SPECIFIED. THIS RESPONSIBILITY INCLUDES PROVISIONS FOR SHORING (I.E., TRENCH BOX) OF THE TRENCH EXCAVATION AS NECESSARY TO COMPLETE THE BELOW-GRADE WORK AS SHOWN ON THE FIGURES AND TO COMPLY WITH ALL APPLICABLE CODES AND REGULATORY REQUIREMENTS.
4. PROVISION AND PLACEMENT OF PIPE BEDDING MATERIAL IN A CONTINUOUS LAYER, AT A THICKNESS OF 16 INCHES, CONSISTING OF ¾-INCH WASHED STONE (ROUNDED) GRAVEL AROUND THE PROPOSED SLOTTED HSVE LATERAL PIPING. THE GRAVEL SHALL COME FROM A NYSDEC PERMITTED MINE OR QUARRY AND CONTAIN LESS THAN 10% BY WEIGHT MATERIAL WHICH WOULD PASS THROUGH A SIZE NO. 80 SIEVE.
5. PROVISION AND PLACEMENT OF A NONWOVEN 10-OUNCE GEOTEXTILE FILTER FABRIC ON TOP OF THE GRAVEL BEDDING LAYER.
6. THE TRENCH SHALL BE BACKFILLED WITH CLEAN OFF-SITE IMPORTED BACKFILL MEETING THE NYSDEC PART 375 COMMERCIAL CRITERIA.
7. PROVISION AND INSTALLATION OF ALL NECESSARY PIPE FITTINGS, VALVES AND APPURTENANCES.
8. THE PIPING SHALL BE INSTALLED IN SUCH A MANNER THAT IT IS NOT FORCED OUT OF LINE BY PIPE SUPPORTS, HANGERS OR OTHER SUPPORTING MEMBERS. THE PIPING SHALL BE KEPT CLEAN OF SILT, DEBRIS, AND OTHER FOREIGN MATTER.

PIPING TRENCH

1. THE PIPES FROM THE EXISTING HSVE LATERALS TO THE BLOWER SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS.

EXCAVATED SOIL

1. THE EXCAVATED SOIL SHALL BE STOCKPILED IN AREA DESIGNATED ON-SITE BY THE ENGINEER IN ACCORDANCE WITH DETAIL ON SHEET D-1.

OFFSITE FILL MATERIALS

1. ALL MATERIALS BROUGHT TO THE SITE SHALL BE STAGED, AS NECESSARY, AND PLACED AS SHOWN ON THE DESIGN DRAWINGS.
2. A CLEAN FILL CERTIFICATION SHALL BE SUBMITTED FROM SUPPLIERS FOR ALL OFFSITE FILL MATERIALS. CERTIFICATION RESULTS MUST BE RECEIVED, REVIEWED, AND APPROVED PRIOR TO UTILIZATION OF FILL MATERIALS AT THE SITE. THE CONTRACTOR SHALL SUBMIT THE RESULTS OF ALL TESTING PRIOR TO PROCEEDING WITH SUBSEQUENT WORK.
3. OFFSITE FILL MATERIALS SHALL BE FREE OF EXTRANEOUS DEBRIS AND SOLID WASTE. TO THE EXTENT POSSIBLE, OFFSITE FILL MATERIALS SHALL BE OBTAINED FROM VIRGIN, NON_INDUSTRIAL SITES.
4. ALL OFF-SITE MATERIALS SHALL BE ADEQUATELY PROTECTED TO PRESERVE THE FITNESS AND THE QUALITY OF THE MATERIAL.

SVE BLOWER

1. THE CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE TO BLOWER.
2. THE ELECTRICAL CONDUIT SHALL BE SIZED FOR 115/230 VOLT, 3-PHASE, 30 AMPS, 60 HZ FOR THE BLOWER.
3. THE BLOWER SHALL BE A 5-HP, AMETEK ROTRON MODEL EN757f72XL OR APPROVED EQUAL.
4. THE BLOWER SHALL BE PROVIDED WITH A WEATHER TIGHT ENCLOSURE DWYER ENCLOSURE D-100HDS OR APPROVED EQUAL.
5. THE BLOWER SKID SHALL INCLUDE WEATHER TIGHT ENCLOSURE, 7-GALLON AMETEK ROTRON MODEL MS200P KNOCK OUT TANK (WITH HIGH LEVEL ALARM), VACUUM RELIEF VALVE, GAUGES, INTERCONNECTING PIPING/FITTINGS (INCLUDING MANUAL DILUTION VALVE).
6. THE BLOWER SKID SHALL BE INSTALLED ON A PREPARED SURFACE (COMPACTED GRAVEL).
7. VAPOR PHASE TREAMENT UNITS SHALL BE PROVIDED AND INSTALLED AS SHOWN ON THE FIGURES. THE VAPOR PHASE TREATMENT UNITS SHALL BE TIGGS MODEL EV-100 OR APPROVED EQUAL.

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REVISIONS

NO.	DATE	DESCRIPTION

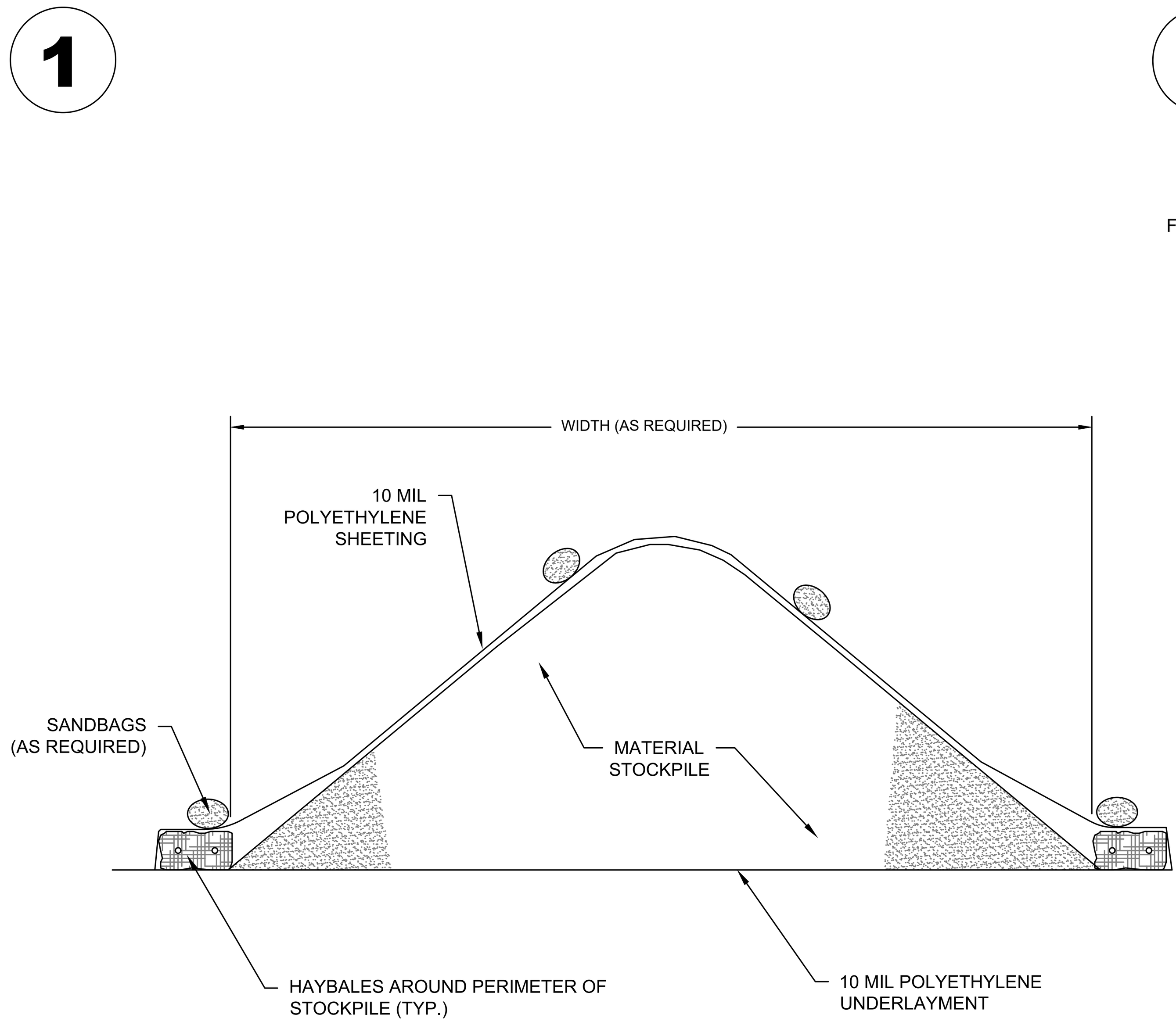
DESIGNED: SRT
DRAWN: SRT
REVIEWED:
APPROVED:
SCALE: AS NOTED
ISSUE DATE: 02/03/2022
PROJECT NUMBER: DEC1007.RA
SHEET SIZE: 24"x36"

P.E. SEAL

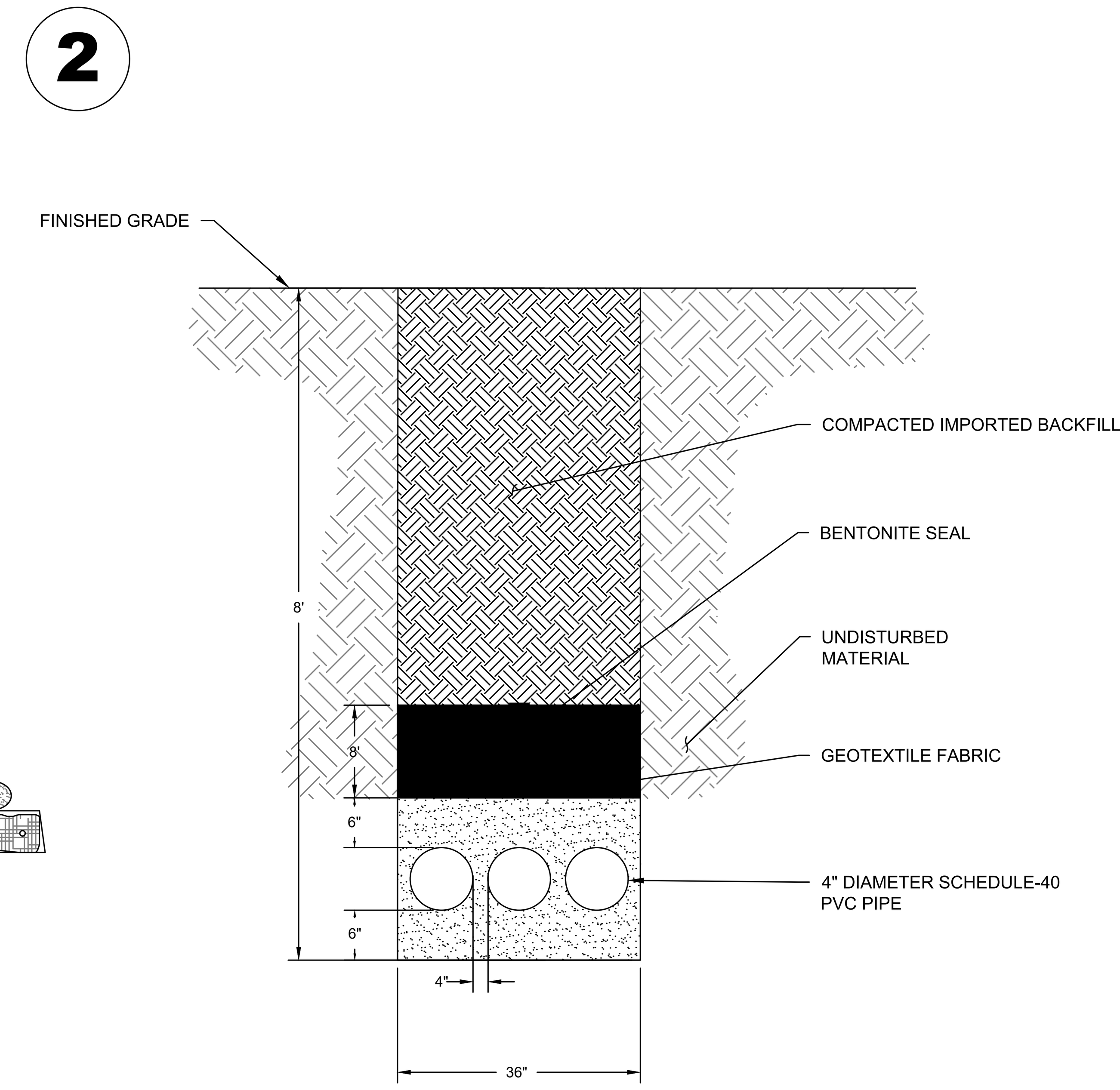
FORMER RAECO PRODUCTS
24 SPENCER STREET
CITY OF ROCHESTER
NEW YORK

NOTES

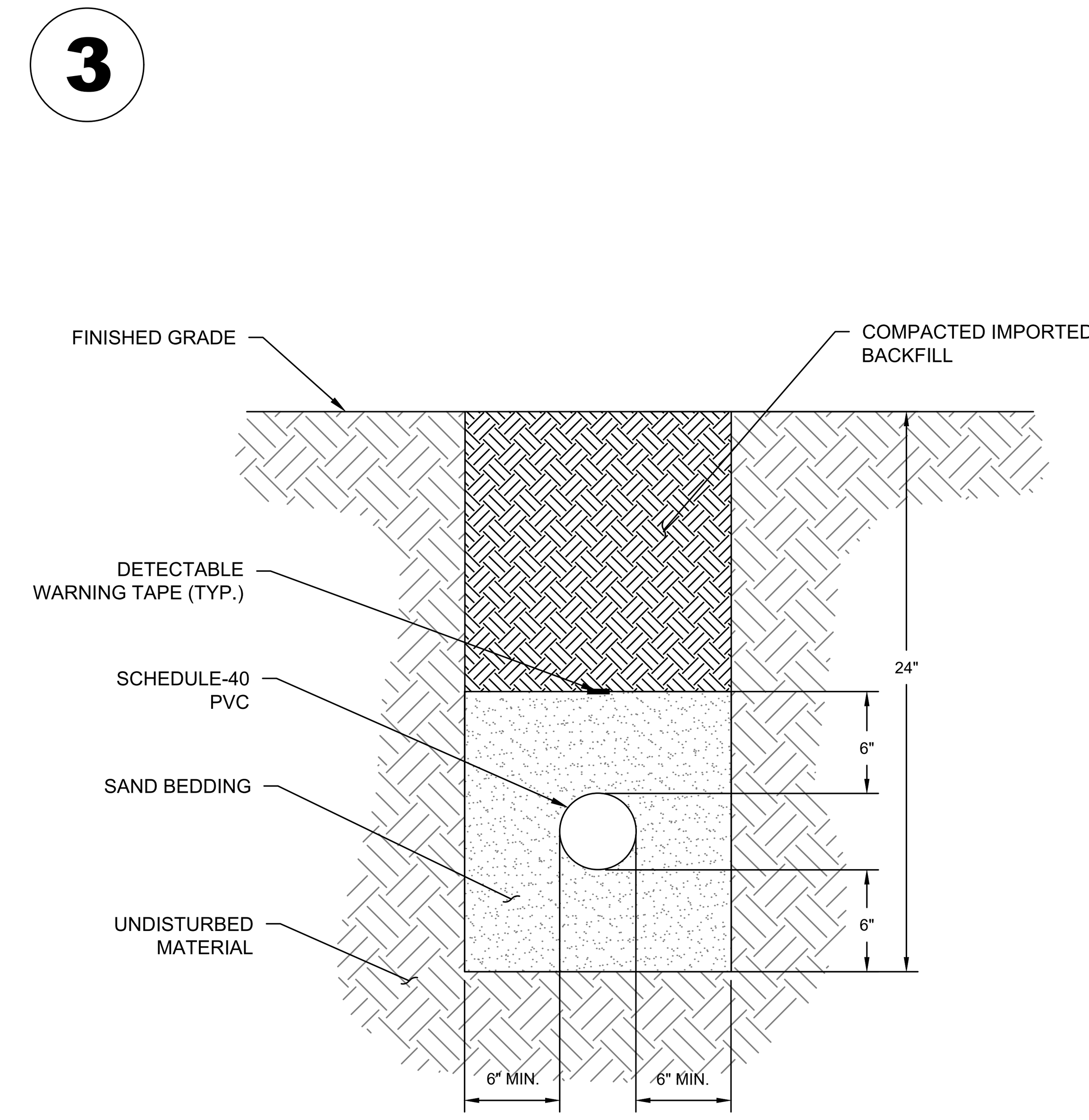
SHEET NO.
S-2



SEDIMENT CONTROL FOR STOCKPILES
NOT TO SCALE



HSVE TRENCH DETAIL
NOT TO SCALE



PIPING TRENCH
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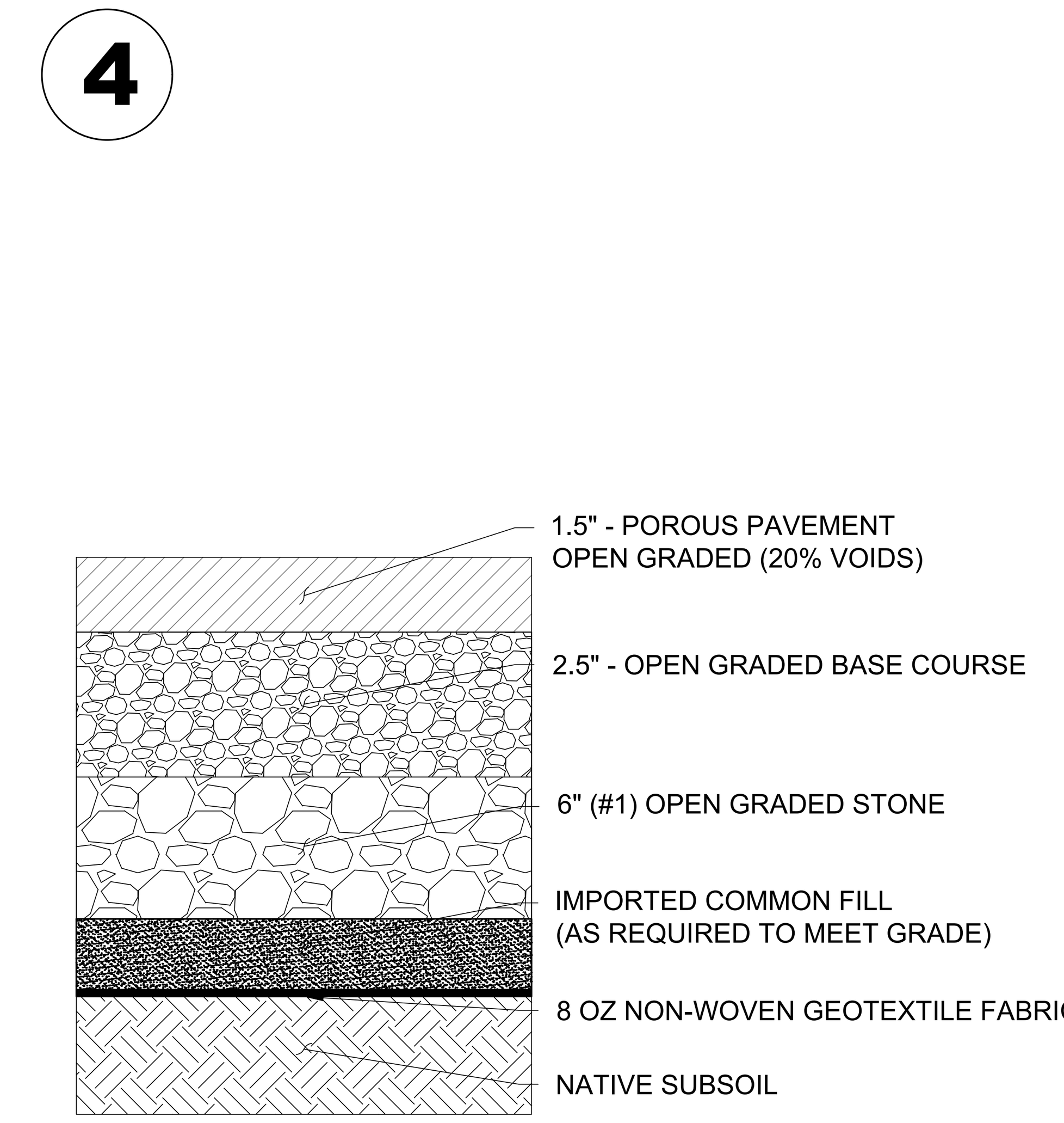
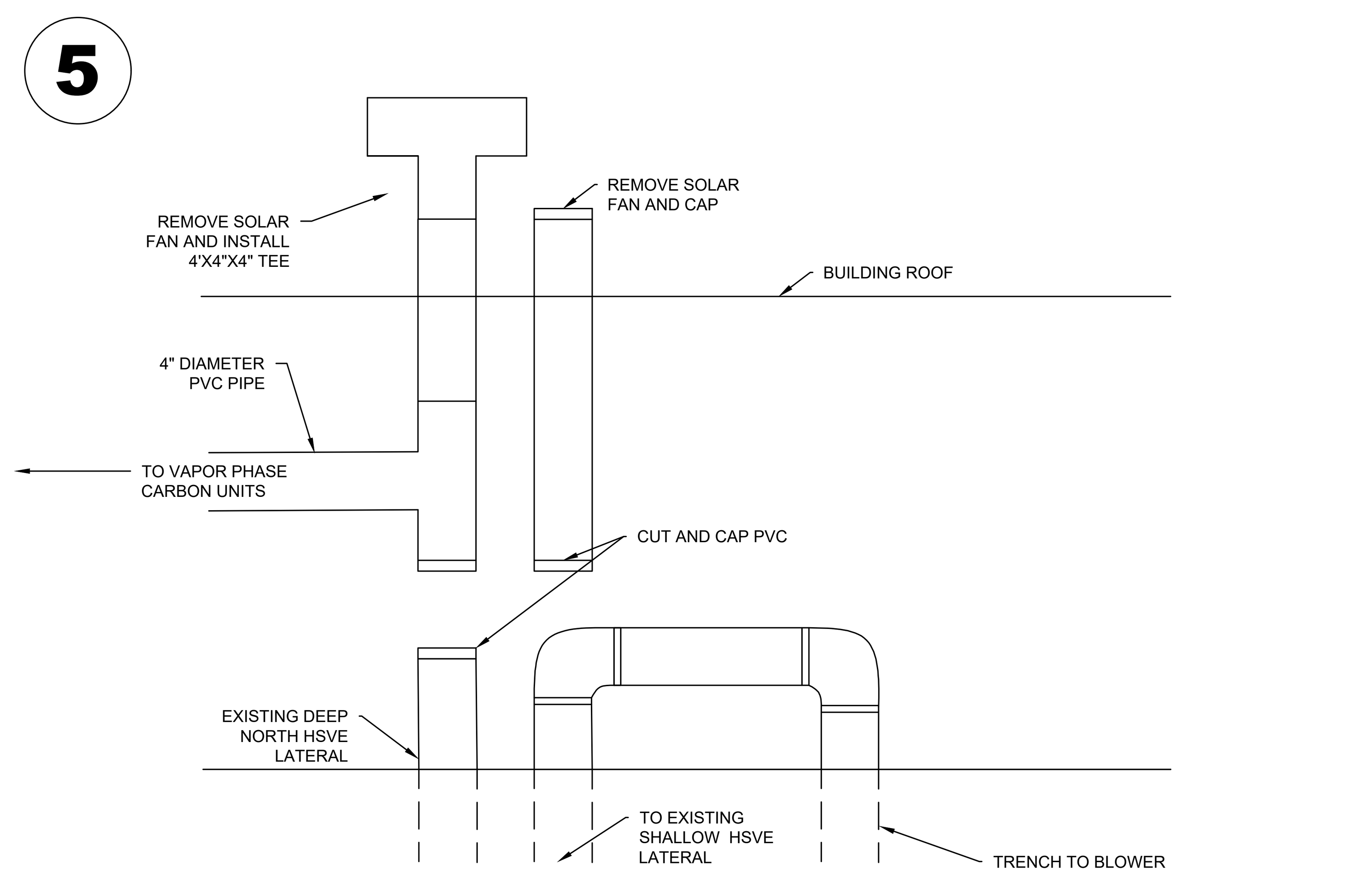
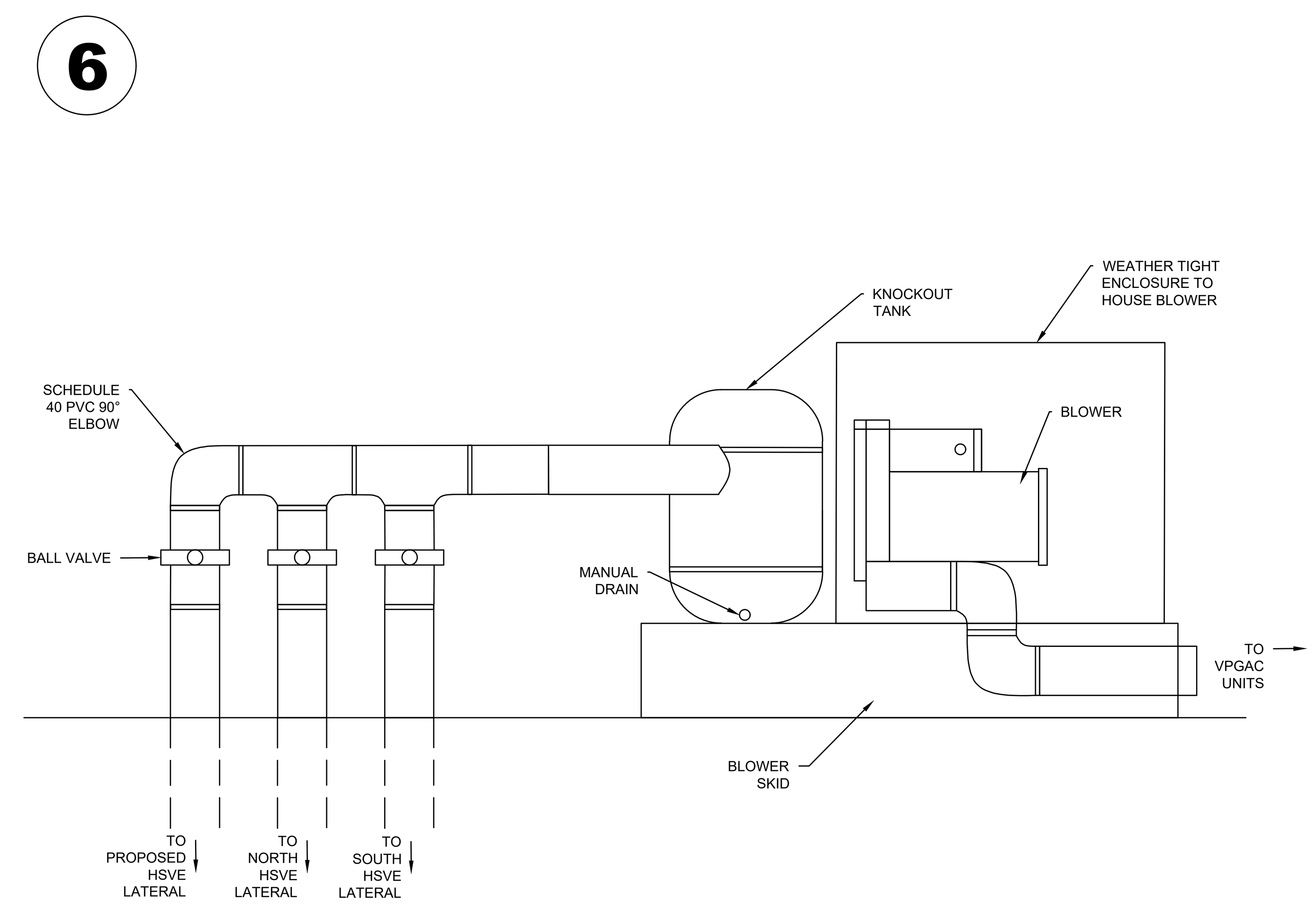


PERMEABLE ASPHALT CAP DETAIL
NOT TO SCALE

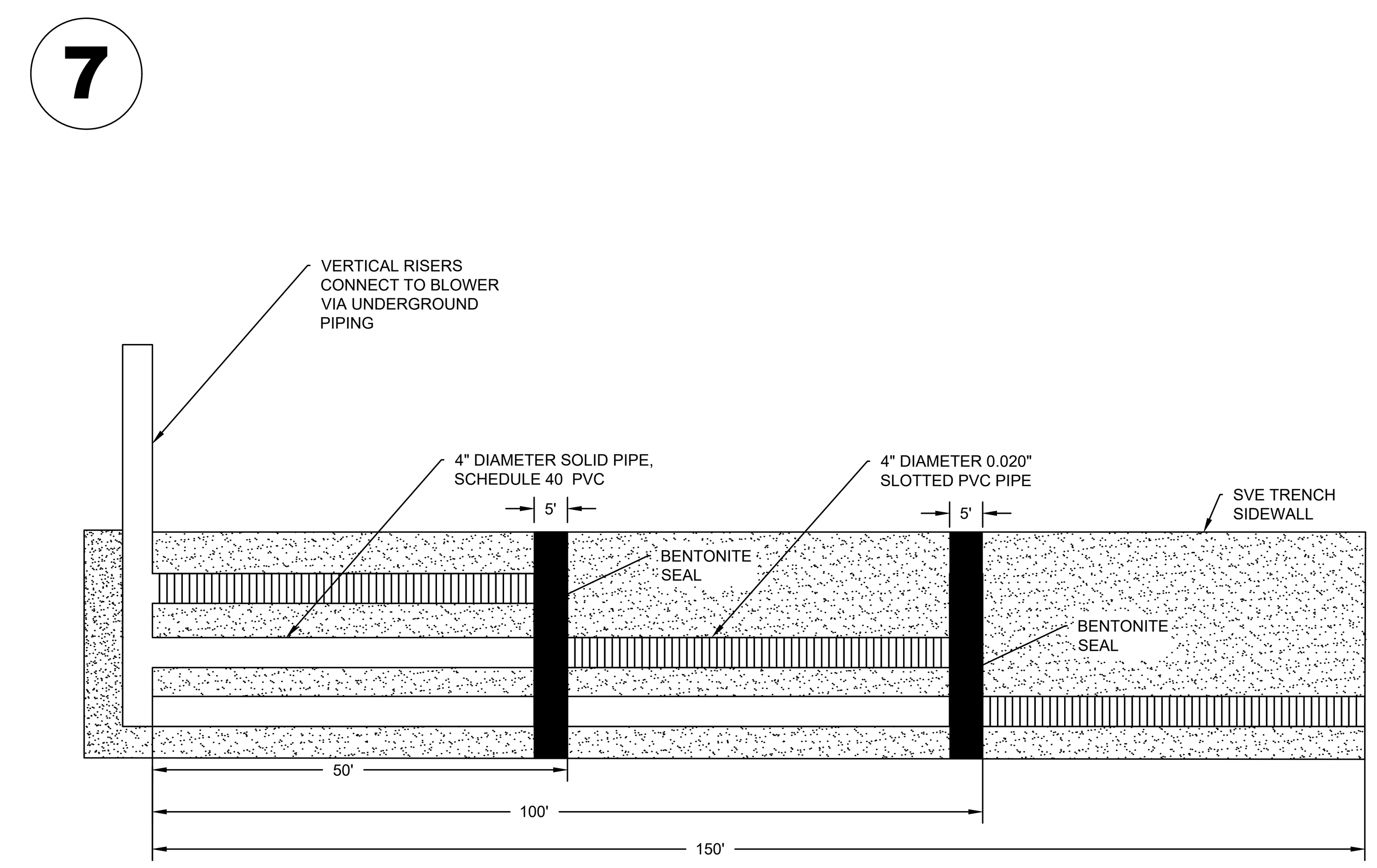


NOTE:
1. CONNECT VAPOR PHASE TREATMENT UNITS TO EXISTING DEEP HSVE LATERAL FOR STACK DISCHARGE FOR EXISTING NORTH HSVE LATERAL AT BUILDING B
2. PROVIDE ADDITIONAL SUPPORT OF EXISTING DEEP NORTH HSVE LATERAL, AS NEEDED FOLLOWING CONNECTION TO THE VPGAC UNITS

EXISTING HSVE PIPING CONNECTION DETAIL
NOT TO SCALE



BLOWER DETAIL
NOT TO SCALE



PROPOSED HSVE LATERAL DETAIL
NOT TO SCALE

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SUITE 110
CLIFTON PARK, NY 12065
(518) 877-7101
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REVISIONS

NO.	DATE	DESCRIPTION

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DRAWN: SRT
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P.E. SEAL

FORMER RAECO PRODUCTS
24 SPENCER STREET
CITY OF ROCHESTER
NEW YORK

DETAILS

SHEET NO.
D-1

APPENDIX B
Relevant Site Data Documents

MOVE YOUR ENVIRONMENT FORWARD

BASIS OF DESIGN REPORT

Former Raeco Products – Site # 828107
24 Spencer Street
Rochester, New York 14608

Prepared For:

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Conservation Division of Environmental Remediation
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1.0 INTRODUCTION

On June 24, 2020, HRP Associates, Inc. (HRP) was authorized to complete New York State Department of Environmental Conservation (NYSDEC) Work Assignment (WA) No. 7 for Remedial Design at the Former Raeco Products Facility (#828107), or "Site", located at 24 Spencer Street, Rochester, New York. The Site was formerly used as a packaging and distribution facility for chemicals and petroleum products from 1930 through 1987 and is currently classified by NYSDEC as a Class II inactive hazardous waste Site.

The Pre-Design Investigation (PDI) scope of work discussed herein was developed based on HRP's Remedial Design Work Plan (RDWP), approved by the NYSDEC and New York State Department of Health (NYSDOH).

This Basis of Design Report (BODR) presents the Site conditions and rationale (design basis) for implementing the remedy presented in the NYSDEC Record of Decision (ROD) (**Appendix A**). Components of the selected remedy are as follows:

- Surface soil removal and/or surface cover;
- Operation, Maintenance, and Monitoring (OM&M) of new and/or existing soil vapor extraction (SVE) system(s);
- Sub-slab depressurization/vapor mitigation;
- Institutional Controls and Engineering Controls (IC/EC) (e.g., Environmental Easement, Groundwater Restrictions, etc.); and
- Adherence to a Site Management Plan (SMP).

This BODR includes a summary of the pre-design field work, including surface soil sampling, groundwater sampling, and an SVE pilot test to evaluate the effectiveness of the existing horizontal SVE (HSVE) system.

1.1 Site Description and Background Information

The Site is located at 24 Spencer Street, Rochester New York (**Figure 1**), and is approximately 3.19 acres in size. The Site is currently used for commercial purposes, as Ideal Tree Service. The Site has four buildings present on the property. Buildings A and B appeared to be abandoned, and not currently occupied. Building D is being used as storage, and Building F is used as a garage/shop for Ideal Tree Service (**Figure 2**).

The Site is zoned C-2, (Community Center), and is located in a mixed-use area. At present, the areas surrounding the property include:

North: Industrial and Commercial land, followed by the Genesee River

East: Genesee River

West: U-Haul rental facility and Northside Auto Repair located to the southwest of the Site, and Volunteers of America located to the west of the Site

South: Storage warehouse and Loraine's Dominican Beauty Parlor

Previous investigations were conducted to define the nature and extent of impacts to soil, groundwater, and soil vapor. Chlorinated volatile organic compounds (CVOCs) were detected at the Site in soil and groundwater above applicable standards, criteria, and guidance values (SCGs). SCGs relevant to the design and implementation of the NYSDEC-selected remedy were identified in the ROD, and include the following:

- Restricted Use Soil Cleanup Objectives (SCOs) for the Protection of Public Health for Commercial Use, and Restricted Use SCOs for the Protection of Groundwater based on NYSDEC's Title 6 of the New York Code of Rules and Regulations (NYCRR) Part 375-6 (6 NYCRR Part 375-6).
- Groundwater, drinking water, and surface water SCGs based on NYSDEC's Division of Water, Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC 2004) and Part 5 of the New York State Sanitary Code (10 NYCRR Part 5).

As such, a remedy was selected by NYSDEC for implementation as a part of the ROD (**Appendix A**). Elements of the selected remedy have been partially implemented, and SVE system operation has been previously implemented by NYSDEC.

1.2 Scope of Pre-Design Activities

The scope of work performed during the PDI presented below was developed based on the data gaps identified by HRP during a review of previous Site data, the ROD, and discussions with NYSDEC staff.

Objectives of the PDI	Investigation Methods
Identify the nature and extent of impacts in the surface soil on the south portion of the Site.	Collection and analysis of six surface soil samples from three locations
Evaluate current groundwater quality at the Site, including an initial assessment of emerging contaminants.	Collection and analysis of six groundwater samples from existing monitoring wells
Determine the effectiveness of the existing HSVE system and potential effectiveness of vertical SVE as compared to HSVE.	Collection and analysis of three soil vapor samples from three locations
	Installation of ten SVE pilot test points and completion of a pilot test

2.0 PRE-DESIGN INVESTIGATION AND RESULTS

The following sections describe the methods and procedures performed during the PDI, and the corresponding laboratory analytical results. The PDI scope of work was generally performed in accordance with the NYSDEC-approved RDWP.

2.1 Surface Soil Sampling

To adequately characterize the surface soil (generally defined as soils within the top 12 inches of the surface) in the southern portion of the Site, in accordance with the NYSDEC 2017 Soil Screening Guidance, soil samples were collected at two depths (surface to 2 inches [designated as "A"], and 2 inches to 12 inches below grade [bg; designated as "B"]) from three locations (SS-1, SS-2, and SS-3). Surface soil samples were retrieved using a hand-auger on June 10, 2021. Surface soil sampling locations were determined in the field and were biased toward areas of suspected environmental impacts (e.g., on-site equipment storage areas, visible staining, etc.). PDI sample locations are presented as **Figure 3**.

Samples were submitted to Eurofins Analytical Laboratory (Eurofins), an NYSDOH ELAP-certified laboratory, under chain of custody protocol, for analysis of:

- Target compound list (TCL) VOCs +10 tentatively identified compounds (TICs) by United States Environmental Protection Agency (EPA) Method 8260
- TCL SVOCs +20 TICs by EPA Method 8270
- Target analyte list (TAL) metals by EPA Method 6010B
- Total cyanide by EPA Method 7471A
- Total mercury by EPA Method 9012
- TCL poly-chlorinated biphenyl (PCBs) by EPA Method 8082
- TCL chlorinated herbicides, pesticides by EPA Method 8081B

2.1.1 Observations

Surface soils collected from locations SS-1, SS-2, and SS-3 were observed to consist of brown, dry, medium to coarse sand and gravel. Soils collected from SS-1A and SS-2A were observed to have dark colored staining and a light odor.

2.1.2 Analytical Results

For the purposes of evaluation, only constituents exceeding the Commercial Use SCOs are relevant to implementation of the remedy. SVOCs were the only constituents detected at concentrations exceeding Commercial Use SCOs at samples SS-1A, SS-1B, and SS-2B collected during the PDI. Laboratory analytical results from surface soil sampling are summarized on **Table 1**, with laboratory analytical reports included in **Appendix B**. A figure depicting surface soil sample locations is provided as **Figure 4**.

2.2 Groundwater Sampling

To evaluate current groundwater quality, existing groundwater monitoring wells (MW-1D, MW-3D, MW-3DD, MW-4D, MW-4DD, and MW-6D) were selected for sample collection and laboratory analysis. The location of each existing groundwater monitoring well is presented on **Figure 6**.

Prior to groundwater sampling, a static round of depth to water (DTW) measurements was collected from accessible monitoring wells using a water level indicator, graduated in 0.01-foot intervals. All accessible wells were opened and allowed to equilibrate to static conditions prior to gauging. Measurements collected from each monitoring well are described in **Section 2.2.1**. Prior to sample collection, each well was monitored for light and dense non-aqueous phase liquids (LNAPLs and DNAPLs) using an oil/water interface probe.

Groundwater samples from each monitoring well were collected in general accordance with low-flow groundwater sampling procedures outlined by the EPA. Samples were transported on ice, under chain-of-custody, to Eurofins, for the following analyses:

- TCL VOCs +10 TICs by EPA Method 8260
- Per- and polyfluoroalkyl substances (PFAS) analyte list compounds by modified EPA Method 537
- 1,4-dioxane by EPA Method 8270

Quality control samples were collected during groundwater sampling to ensure precision and accuracy of results. Duplicate and matrix/matrix spike duplicates were collected at a frequency of one per 20 samples. Analytical results are discussed in **Section 2.2.2**.

2.2.1 Observations

Depth to water ranged from 18.59 feet below grade (ft bg) at MW-1D, to 85.42 ft bg at MW-4DD on March 29, 2021.

Local groundwater flow was interpolated from measurements collected from monitoring wells located on the Site. Water from the central portion of the Site divides, and either flows west towards a former ravine that was historically filled, or east towards the Genesee River.

LNAPL was measured at a thickness of 1.03 feet in MW-1D on March 29, 2021. LNAPL was bailed out by hand and containerized for disposal prior to sampling. No obvious odor or sheen was observed at any of the other monitoring wells during sampling.

2.2.2 Analytical Results

VOCs were detected at concentrations exceeding the SCGs at monitoring wells MW-1D and MW-4D. Compounds detected at concentrations exceeding SCGs in MW-1D include: 1,1-dichloroethane (320 µg/L), total xylenes (1,700 µg/L), cis-1,2-dichloroethene (cis-1,2-DCE; (12,000 µg/L), toluene (2,100 µg/L), ethylbenzene (450 µg/l), and vinyl chloride (2,200 µg/L). Trichloroethene (39 µg/L), cis-1,2-

DCE (72 µg/L), and vinyl chloride (48 µg/L) were detected at concentrations exceeding SCGs at MW-4D. A summary of groundwater analytical results is presented as **Table 2** and **Figure 6**.

PFAS were not detected at concentrations exceeding the NYSDEC Guidance for sampling, analysis, and assessment of PFAS at monitoring wells sampled during the PDI.

1,4-dioxane was detected at concentrations exceeding SCGs at monitoring wells MW-1D (170 µg/L), MW-3D (64 µg/L) and MW-4D (1.1 µg/L). A summary of emerging contaminants detected in groundwater is presented as **Table 3** and **Figure 7**. Laboratory analytical reports are provided in **Appendix B**.

2.3 SVE Pilot Test

2.3.1 Existing SVE System Configuration

In December 2011, two SVE systems, each consisting of two HSVE wells were installed at the Site. The North HSVE system is located on the southern exterior of Building D (**Figure 8**). During the construction of the North HSVE system, perched water was observed at 9 ft bg. The North HSVE system consists of a deep HSVE well placed at 8 ft bg and a shallow HSVE well placed at 7.5 ft bg. The South HSVE system is located on the western exterior side of Building B. The South HSVE system consists of a deep HSVE well placed at 11.5 ft bg and a shallow HSVE well placed at 5.0 ft bg. The extraction piping on the four HSVE wells consists of 40 feet of 6-inch diameter, 0.020-inch slotted polyvinylchloride (PVC) well screen. Eight-inch diameter solar powered pipe vents are installed at the top of the risers of each HSVE well.

Based on records review, there does not appear to be any system-related data available for review to assess the effectiveness of the SVE systems as it was installed, and no data collected after August 2014 was provided to HRP for review. The exhaust fans did not appear to be in operation during HRP's visit to the Site during the first and second quarters of 2021.

HRP developed a SVE System Pilot Test Plan (included in the RDWP) to evaluate the viability and efficiency of the existing HSVE systems, evaluate the feasibility of a vertical SVE system as compared to the HSVE systems in place, and obtain necessary design parameters for possible system expansion. The RDWP included the installation one vertical vapor extraction point to be installed along with nine vapor monitoring points in the area around the South HSVE system and the completion of SVE step test at the South HSVE system and the newly installed vertical SVE point. **Section 2.3.2** below described the extraction and monitoring points installed as part of the test.

2.3.2 SVE Point Installation

Prior to the initiation of drilling activities completed during the PDI and in accordance with New York State law, the Site was marked out for underground utilities by Dig Safely New York. A ground penetrating radar (GPR) survey of proposed monitoring points was completed by Ground Penetrating Radar Systems (GPRS) to clear private and public utilities. Utilities were located within proximity of the SVE point installations, and marked with yellow, pink, and blue marking paint/flags with depths

as appropriate. The effective depth of GPR varied throughout the Site, and the maximum effective GPR depth was approximately 0 to 3 ft bg.

On Thursday June 10, 2021, HRP and LaBella Associates, P.C. (LaBella) mobilized to the Site, and installed one 2.0-inch diameter and nine 1.0-inch diameter vacuum monitoring points to facilitate the SVE pilot test. The series of pilot test wells (TP-1, TP-2, and TP-3) were installed at a distance of approximately 8 feet, 20 feet, and 28 feet, respectively, from the South HSVE system, and used to evaluate the radius of influence (ROI) imposed by the extractions wells. Vacuum points TP-1A, -1B, -1C, -2A, -2B, -2C, -3A, -3B, and 3C were screened at intervals as indicated in the below table, and locations are presented as **Figure 3.**

Well ID	Well Diameter (in)	Depth to Bottom (ft bg)	Screen Interval (ft bg)	Screen Length (ft)	Radial Distance from SVE-1 (ft)	Radial Distance from SVE Trench (ft)
HSVE-Shallow	4.0	5.0	---	---	10	---
HSVE - Deep	4.0	12	---	---	10	---
SVE-1	2.0	12	2-12	10	---	9.5
TP-1A	1.0	5.0	3-5	2.0	8.0	20
TP-1B	1.0	8.0	6-8	2.0	8.0	20
TP-1C	1.0	12	10-12	2.0	8.0	20
TP-2A	1.0	5.0	3-5	2.0	20	28
TP-2B	1.0	8.0	6-8	2.0	20	28
TP-2C	1.0	12	10-12	2.0	20	28
TP-3A	1.0	5.0	3-5	2.0	28	10
TP-3B	1.0	8.0	6-8	2.0	28	10
TP-3C	1.0	12	10-12	2.0	28	10

One 2.0-inch diameter vertical SVE well (SVE-1) was installed, and was used to induce vacuum during the pilot test. Vacuum points were backfilled using silica sand, and appropriately sealed using hydrated bentonite. Construction details of vacuum monitoring points are presented above.

2.3.3 SVE Pilot Test Methods

HRP mobilized to the Site on June 15, 2021 to perform vacuum tests at three locations (South HSVE Shallow, South HSVE Deep, and SVE-1). SVE pilot testing was performed by inducing a vacuum through the connection of a regenerative blower to individual SVE wells, and measuring the vacuum in monitoring points installed at varying distances from the SVE wells. The blower was "stepped" using a variable frequency drive (VFD) to demonstrate the operating conditions for a range of applied vacuum and flow conditions. Vacuum measurements during the test are provided below in **Section 2.3.4**, and summarized in **Table 4**.

Each SVE vacuum step test (HSVE Deep, HSVE Shallow, Vertical SVE) was performed by incrementally applying three ranges of vacuum (30%, 60%, and 100% of the blower capacity) to the SVE wells using an Amtek/Rotron 1.5 horse-power (Hp) regenerative blower (Model DR454W58). The blower was connected to one extraction well at a time, while the other monitoring points (TP-1A through TP-3C) were used to measure ROI.

Each SVE step test was performed to:

- Evaluate the feasibility of an SVE remedial system for removing VOCs from the vadose zone;
- Evaluate ROI; and
- Optimize system performance of the SVE system.

During the SVE step test, the following parameters were monitored approximately every 15 minutes:

- Applied vacuum at the extraction wells using an analog magnehelic vacuum gauge; and
- Induced vacuum readings at the vapor point observation wells and the SVE well that is not connected to the blower.

Photoionization detector (PID) readings from each extraction well were collected prior to the start of the SVE step test, and at each step of the test (30%, 60%, and 100%). Results from the soil vapor screening conducted during the pilot test are presented below in **Section 2.5**.

Target treatment areas of current and proposed SVE system(s) are presented as **Figure 8**. SVE design parameters were generally based on the Division of Environmental Remediation Guidance for Environmental Investigation and Remediation (DER-10), and the EPA Guidance "How to Evaluate Alternative Cleanup Technologies for Underground Storage Tank Sites - Guide for Corrective Action Plan Reviewers".

2.3.4 SVE Pilot Test Results

2.3.4.1. Shallow Horizontal Test (South HSVE System)

During the pilot test of the Shallow South HSVE system, flow rate ranged from 96.87 cubic feet per minute (CFM) during the 100% test to 107.33 CFM during the 30% test. The PID reading measured from the system exhaust at the conclusion of the test was 11.6 parts per million (ppm). A summary of data (**Table 4**) collected during each step test is summarized below.

Step	Air Flow Rate (CFM)	PID at System Exhaust (ppm)	Maximum Vacuum Observed (in. of water column [wc])
30%	107.33	4.4	0.12 [SVE-1]
60%	103.13	7.8	0.21 [SVE-1]
100%	96.87	11.6	0.27 [SVE-1]

Vacuum observed during the 100% step test in the vacuum points screened from 3 ft bg to 5 ft bg ranged from 0.02 inches of water column (in. wc) at TP-2A to 0.27 in. wc at SVE-1. PID head space readings ranged from 0.2 ppm at the SVE-Deep lateral, to 6.9 ppm at TP-1A. Vacuum observed during the 100% step test in the observation wells screened from 6 ft bg to 8 ft bg ranged from 0.02 in. wc at TP-2B to 0.27 in. wc at SVE-1. Vacuum observed during the 100% step test in the observation wells screen from 10 feet to 12 feet ranged from 0.03 in. wc at TP-1C to 0.27 in. wc at

SVE-1. PID head space readings ranged from 0.2 ppm at the SVE Deep Lateral to 1.8 ppm at the SVE Shallow Lateral.

To estimate a possible ROI for an SVE system based on vacuum data observed at the end of the 100% step test, a semi-log plot of vacuum (observed vacuum at an observation well) versus radial distance from the SVE well was plotted. A best-fit line was then used to identify the distance at which the vacuum would be between 0.1 in wc and 0.02 in wc representing an effective range of ROI for the test. The semi-log plots are included in **Appendix C**, and the calculated ROI at each depth is tabulated below.

Location	Calculated distance of 0.1 in wc vacuum (feet)	Calculated distance of 0.02 in wc vacuum (feet)
3-5 ft. Zone (A)	12	28
6-8 ft. Zone (B)	7	33
10-12 ft. Zone (C)	5	45

2.3.4.2. Deep Horizontal Test (South HSVE System)

The air flow rate during the pilot test of the deep South HSVE system ranged from 42.08 CFM during the 100% step test, to 98.98 CFM during the 30% step test (see below). PID measurements at the pilot system exhaust ranged from 0.0 during static conditions, to 0.5 ppm during the 100% test. A copy of the data from the pilot test is presented as **Table 4**.

Step	Air Flow Rate (CFM)	PID at System Exhaust (ppm)	Maximum Vacuum Observed (in. wc)
30%	98.98	0.2	0.00 [All Test Points]
60%	82.41	0.3	0.00 [All Test Points]
100%	42.08	0.5	0.00 [All Test Points]

Sufficient vacuum (>0.1 in. wc) was not measured during the deep horizontal test. PID measurements ranged from 0.20 ppm at the HSVE-deep test point to 321.8 ppm at TP-1A during the 100% step test.

2.3.4.3. Vertical Test (SVE-1)

Three step tests were conducted on the vertical test well (SVE-1) on June 16, 2021. Air flow ranged from 51.79 CFM during the 100% step test, to 106.19 CFM during the 30% step test. PID measurements from the pilot system exhaust ranged from 0.0 ppm during static conditions, to 9.8 ppm during the 100% step test.

Step	Air Flow Rate (CFM)	PID at System Exhaust (ppm)	Maximum Vacuum Observed (inches of water)
30%	106.19	2.3	0.00 [HSVE-Shallow]
60%	80.45	5.7	0.04 [HSVE-Shallow]
100%	51.79	9.8	0.05 [HSVE-Shallow]

Negligible vacuum was measured during the vertical SVE test, and ranged from 0.00 at the majority of SVE vacuum points, to 0.05 at the shallow HSVE. Vacuum >0.10 in. wc was not observed during the vertical pilot test.

2.4 Soil Vapor Sampling Analytical Results

At the end of each 100% test, one soil vapor grab sample was collected from each location (HSVE Deep, HSVE Shallow, SVE-1) using a summa canister, and sent to Eurofins, under chain of custody protocol for analysis of VOCs by EPA Method TO-15. Contaminants of concern were detected at concentrations exceeding the laboratory reporting limit (RL) in all three samples collected during the pilot test. Concentrations of detected compounds are presented in **Table 4** and laboratory analytical reports are included as **Appendix B**.

A daily mass recovery rate was estimated using the total VOCs detected in the samples and the measured collected during the pilot test. A summary of the pilot test soil vapor recovery is included below.

Sample Location	Flow Rate (CFM)	Total VOCs (mg/m^3)	Total VOC Recovery Rate (lbs/day)
HSVE-Shallow	96.87	27.71	0.242
HSVE-Deep	42.08	0.32	0.001
SVE-1	51.79	19.15	0.089

3.0 BASIS OF DESIGN

The purpose of this BODR is to provide a framework to develop the Remedial Design (RD) for the Site. The RD will provide the details necessary for the construction, operation, maintenance, and monitoring of the selected remedy. Elements of the selected remedy, as described in the ROD include:

- Addressing areas of surface impacts either through removal and/or clean soil backfill or placement of a cover over the Site;
- Installation of a new SVE system, and operation of an existing SVE system (completed December 2011);
- Installation of a vapor mitigation system in on-site Building A (if occupied; presently Building A is unoccupied);
- Sub Slab Depressurization System (SSDS) operation (if warranted);
- IC/EC, including the continuation of an existing environmental notice, and establishment of an environmental easement;
- Continued OM&M of SVE systems; and
- A provision to evaluate the potential for vapor intrusion for future Site buildings developed on the Site or existing buildings if Site use changes.

3.1 Surface Cover Installation

Surface soil samples were collected during the Preliminary Site Investigation (PSI) from a depth of 0-2 and 2-12 inches to assess direct human exposure. The results indicate that soils at the Site exceed the unrestricted SCGs for VOCs and SVOCs, metals and pesticides (**Table 1**), however, the relevant standard for this Site are those samples that exceed the Commercial Use SCOs. A summary of current and past surface soil analytical results is presented as **Figure 4.**

To prevent human contact with contaminated surface soil, a cover system in the form of an asphalt cap will be included with the remedial design. The existing asphalt pavement on the central portion of the Site is in poor condition and is not an adequate barrier, therefore the existing asphalt cap will be replaced during implementation of the remedy. **Figure 4** depicts the extent of Site where concentrations of constituents of concern are present in excess of the Commercial Use SCOs, and requiring capping.

3.1.1 Green Remediation and Climate Resiliency Elements

NYSDEC's DER-31 Green Remediation requires that green remediation concepts and techniques be considered during all stages of the remedial program including Site management, with the goal of improving the sustainability of the cleanup and summarizing the net environmental benefit of any

implemented green technology. This section of the BODR provides a summary of green remediation evaluations to be completed at the Site during implementation of the selected remedy.

3.1.1.1. Locally Sourced Fill Material

Grading, earthwork, and the use of imported fill materials may be required to facilitate the installation of a surface cover at the Site. As such, HRP will attempt to use fill materials from local sources and suppliers. Importing fill material from local sources will reduce fuel consumption by the transporter, and will reduce emissions of carbon dioxide (CO_2), and other greenhouse gases (GHGs), such as methane.

3.1.1.2. Permeable asphalt

Permeable asphalt will be implemented at the Site, and will be installed by the contractor following installation of the SVE system. Permeable asphalt is anticipated to require minimal maintenance (e.g. less mowing, snow plowing, etc.), allow for infiltration of storm water, and/or be integrated with the next use of the site.

3.1.1.3. Ultra Low Sulfur Diesel

Use of ultra low sulfur diesel (ULSD) will be used in all heavy equipment used to complete remediation at the Site. ULSD is a cleaner-burning diesel fuel that contains approximately 97% less sulfur than low-sulfur diesel (LSD). ULSD was developed to allow the use of improved pollution control, and to reduce GHG emissions.

3.1.1.4. Trucks Idling

All vehicles, both on and off road (including construction equipment) will be shut off when not in use for more than 5 minutes, consistent with 6 NYCRR Part 217 Motor Vehicle Emissions, Subpart 217-3 Idling Prohibition for Heavy Duty Vehicles. Implementation of a truck idling policy will reduce fuel consumption by on-site equipment, and reduce emissions of greenhouse gases (GHGs).

3.2 Groundwater Monitoring

Compounds detected at concentrations exceeding SCGs were identified during the RI and PDI, and include: vinyl chloride, chloroethane, 1,1-dichloroethene, 1,1- dichloroethane, 1,2-dichloroethene, 1,1,1-trichloroethane, benzene, trichloroethene, toluene, ethylbenzene, and xylene. 1,4-Dioxane was detected at concentrations exceeding SCGs during the PDI, was not previously identified during Site investigations, including the RI.

LNAPL at a thickness of 1.03 feet was measured at MW-1D during the PDI using an oil/water interface probe. According to the ROD a 0.07 - 0.08 foot (just under an inch) LNAPL layer was observed and sampled at MW-1D during the RI.

No sensitive receptors (i.e., drinking water supply wells) were identified during the RI. Monitoring wells will continue to be evaluated by NYSDEC, and LNAPL from MW-1D will be removed by hand bailing on a periodic basis, at the direction of the NYSDEC, to prevent LNAPL from migrating off-site.

3.2.1 Green Remediation and Climate Resiliency Elements

3.2.1.1. Rechargeable Batteries

Single-use starting, lighting, and igniton (SLI) batteries will not be used to power equipment during sampling procedures. SLI batteries are not appropriate, nor designed for continuous use by sampling personnel. Deep-cycle lead-acid and/or lithium-ion batteries shall be used in lieu of SLI batteries, to reduce the generation of waste batteries, and to conserve electricity during charging.

For smaller, handheld equipment (i.e. PID), rechargeable lithium-ion battery packs will be used, in lieu of disposable alkaline batteries, to reduce generation of waste. All spent rechargeable batteries will be disposed of at an appropriate facility, per the instructions of the manufacturer, if applicable.

3.2.1.2. Dedicated Sampling Tubing

Dedicated sample tubing shall be used at the Site, where applicable. Single use disposable tubing shall not be used at the Site. Restricting the implementation of single-use sampling tubing will minimize the generation of waste from the Site.

3.2.1.3. Vehicle Idling

All vehicles, both on and off road (including construction equipment) will be shut off when not in use for more than 5 minutes, consistent with 6 NYCRR Part 217 Motor Vehicle Emissions, Subpart 217-3 Idling Prohibition for Heavy Duty Vehicles.

Implementation of a vehicle idling policy will reduce fuel consumption by on-site equipment, and reduce emissions of greenhouse gases (GHGs).

3.3 SVE System

There are currently two on-site HSVE systems (HSVE-North and HSVE-South) described in **Section 2.4.1**. The two existing HSVE systems, as they are currently designed are not effective at removing contaminant mass from the subsurface. This is partly due to the inconsistent output of the solar powered fans currently installed on the systems. A permanent regenerative blower is suggested by HRP to replace the solar-powered fans at both the North and South Shallow HSVE systems. Additional specifications and blower details will be provided in a Remedial Action Work Plan (RAWP).

Additionally, based on the estimated ROI and the location of subsurface soils which require treatment (**Figure 5**), the location of the current HSVE systems are sufficient to address the entire treatment area. To address this shortcoming, HRP recommends an additional HSVE lateral be installed to the east of Building D (**Figure 8**). Due to favorable physical and chemical characteristics

observed during the pilot test and details presented in the RI, in order to facilitate HSVE, a trench will be installed, and laterals will be placed within the trench. It is anticipated that the additional HSVE lateral will be installed at a depth of 5 to 8 ft bg. The laterals will likely be backfilled with washed stone, and covered with a geotextile fabric, to minimize silt and clay particles from entering the well screen. A cross-section of the proposed system treatment area is provided on **Figure 9**. Additional specifications will be presented in the RAWP.

Following the completion of the pilot test, a system curve was prepared for each of the three test locations (HSVE-Shallow, HSVE-Deep, and SVE-1). System curves consisting of applied wellhead vacuum verses the observed wellhead flow rate for each well tested are presented as **Appendix D.** During the remedial design, these curves will be compared to blower curves of commonly available vacuum blowers for the purpose of selecting/sizing the best commercially available blower for the site-specific conditions. Based on the pilot test, operating a 1.5 Hp regenerative blower at 96 CFM results in a treatment ROI of at least 12 feet.

SVE system curves will be incorporated in the final blower selection and design. The blower selected for the full-scale design will affect a 12 foot ROI, as demonstrated during the pilot test. A graphic representation of the pilot test data for ROI and vacuum flow rates are provided as **Appendix C** and **Appendix D**. Soil vapor extracted from new and existing SVE wells will be treated, as necessary, using activated carbon. The final design will be based on the results of this BODR, and presented in a RAWP.

3.3.1 Green Remediation and Climate Resiliency Elements

3.3.1.1. Locally Sourced Fill Material

Grading, earthwork, and the use of imported fill materials may be required to facilitate the installation of a surface cover at the Site. As such, HRP will attempt to use fill materials from local sources and suppliers. Importing fill material from local sources will reduce fuel consumption by the transporter, and will reduce emissions of greenhouse gases (GHGs).

3.3.1.2. Ultra Low Sulfur Diesel

Use of ultra low sulfur diesel (ULSD) will be used in all heavy equipment used to complete remediation at the Site. ULSD is a cleaner-burning diesel fuel that contains approximately 97% less sulfur than low-sulfur diesel (LSD). ULSD was developed to allow the use of improved pollution control, and to reduce GHG emissions.

3.3.1.3. Locally Sourced Renewable Energy

In October 2020, the regional supplier of electricity (National Grid) launched "National Grid Renewables", or NGR. NGR is a mechanism for customers to use locally sourced renewable energy, through the development, acquisition, and operation of large-scale renewable energy assets, including solar, onshore wind and battery storage, across the United States.

NGR uses a combination of solar, onshore renewable energy, as well as geographically diverse energy sources across the country. HRP will use NGR to provide electricity to the SVE system, to benefit local economies, and aid the reinvestment towards a sustainable energy future.

3.3.1.4. System efficiency

The SVE system will be carefully designed to optimize existing conditions, and to use adequate piping and controls to minimize wasted energy.

A Variable Frequency Drive (VFD) is a type of drive motor used to control alternating current motor speeds and torque by varying motor input voltage. VFDs will be used as a component of the SVE system, to optimize motor usage, and to conserve electricity.

3.4 Institutional and Engineering Controls (IC/EC)

Institutional controls in the form of an environmental notice is currently established at the Site. Future institutional control will include the establishment of an environmental easement. Establishment of an environmental easement for the controlled property requires the remedial party or Site owner complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3). The remedy allows land use and development of the controlled property for commercial or industrial use. The easement shall restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDEC, NYSDOH, or County DOH.

Additionally, the easement will require the NYSDEC and/or remedial party or Site owner to maintain engineering controls installed at the Site. Such easement would require NYSDEC to operate and maintain the HSVE system. The remedial party or Site owner would be required to complete the NYSDEC EC/IC form, maintain the Site cover, and any SSD systems present at the Site. The easement shall also require compliance with an NYSDEC-approved SMP.

3.5 Site Management Plan (SMP)

The remedial design will require that a SMP be prepared for the Site. The SMP will be consistent with the applicable requirements of DER-10 Section 6.2, and in a format generally consistent with the NYSDEC's SMP template. As indicated in the ROD, the SMP will consist of the following:

- Institutional and Engineering Controls Plan – describes the use restrictions and engineering controls that will be established.
- Monitoring Plan – used to assess the performance and effectiveness of the remedy. The SMP will include requirements for post-remedial action groundwater monitoring, as well as Site inspection schedules, and NYSDEC reporting requirements.
- Climate Resiliency Plan – used as a framework to guide action, and to facilitate sustainability and green remediation, where applicable.

4.0 REFERENCES

New York Code of Rules and Regulations (NYCRR) Part 375-6 (6 NYCRR Part 375-6)

New York State Department of Environmental Conservation, Division of Remediation, *Technical Guidance of Site Investigation and Remediation* – May 2010

New York State Department of Environmental Conservation, Division of Remediation, *Soil Screening Guidance*– August 2017

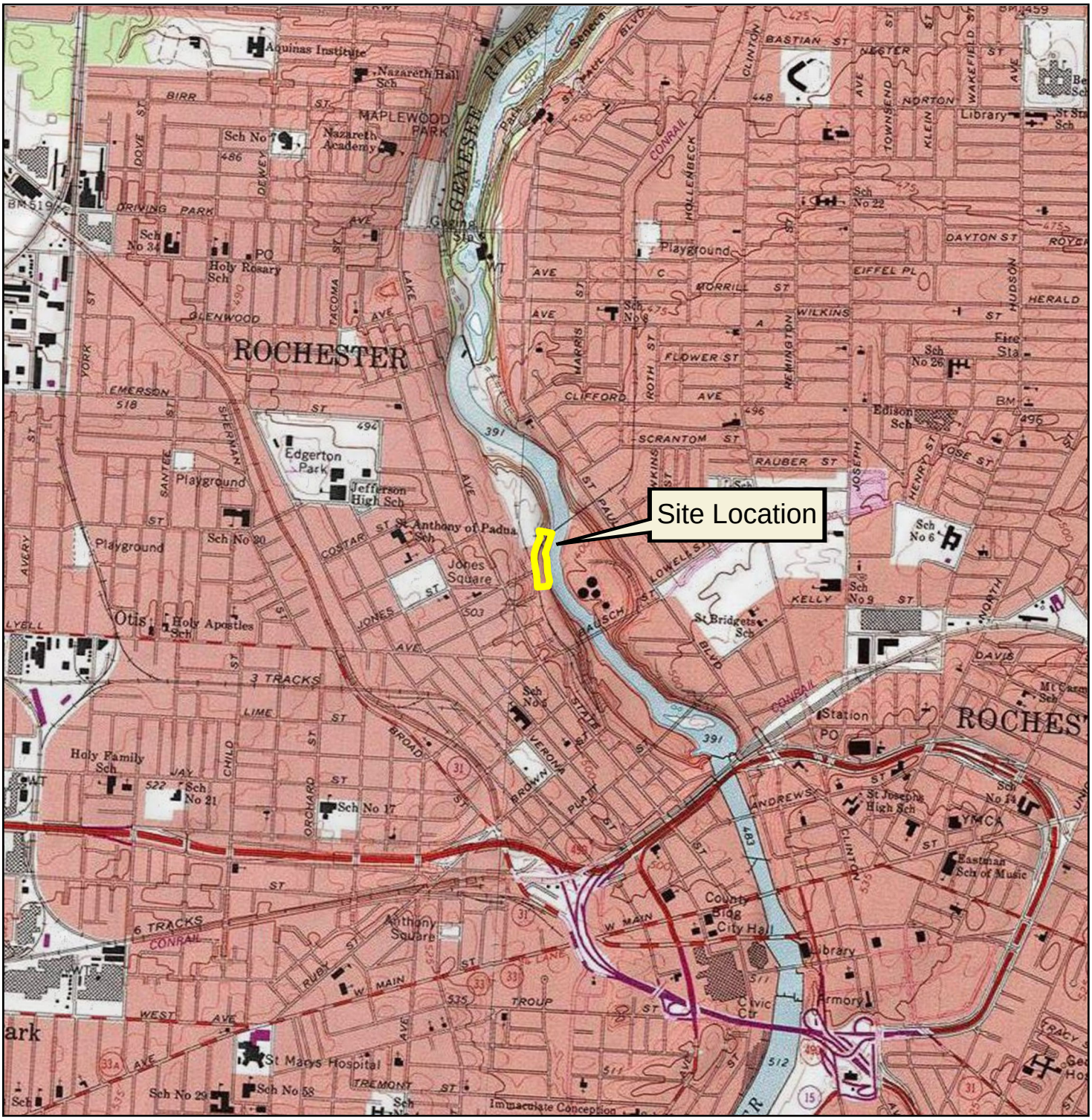
New York State Department of Environmental Conservation *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs* – June 2021

New York State Department of Environmental Conservation, *Division of Water Technical and Operational Guidance Series (1.1.1) – Ambient Water Quality Standards and Guidance values and groundwater effluent limitations* – June 1998

Remedial Investigation Report Prepared by Environmental Resources Management for New York State Department of Environmental Conservation- Site No. 8-28-107, Work Assignment No. D003970-22- February 2007

United States Environmental Protection Agency (USEPA) - *How to Evaluate Alternative Cleanup Technologies for Underground Storage Tank Sites – A Guide for Corrective Action Plan Reviewers* – October 2017.

FIGURES



USGS Quadrangle Information
Quad ID: 43077-B6
Name: Rochester West, New York
Date Pub: 1984

FIGURE 1
SITE LOCATION
FORMER RAECO PRODUCTS
24 SPENCER STREET
ROCHESTER, NEW YORK
HRP# DEC1007.RA
Scale 1" = 2,000'

HRP
MOVE YOUR ENVIRONMENT FORWARD
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0 40' 80'

REVISIONS

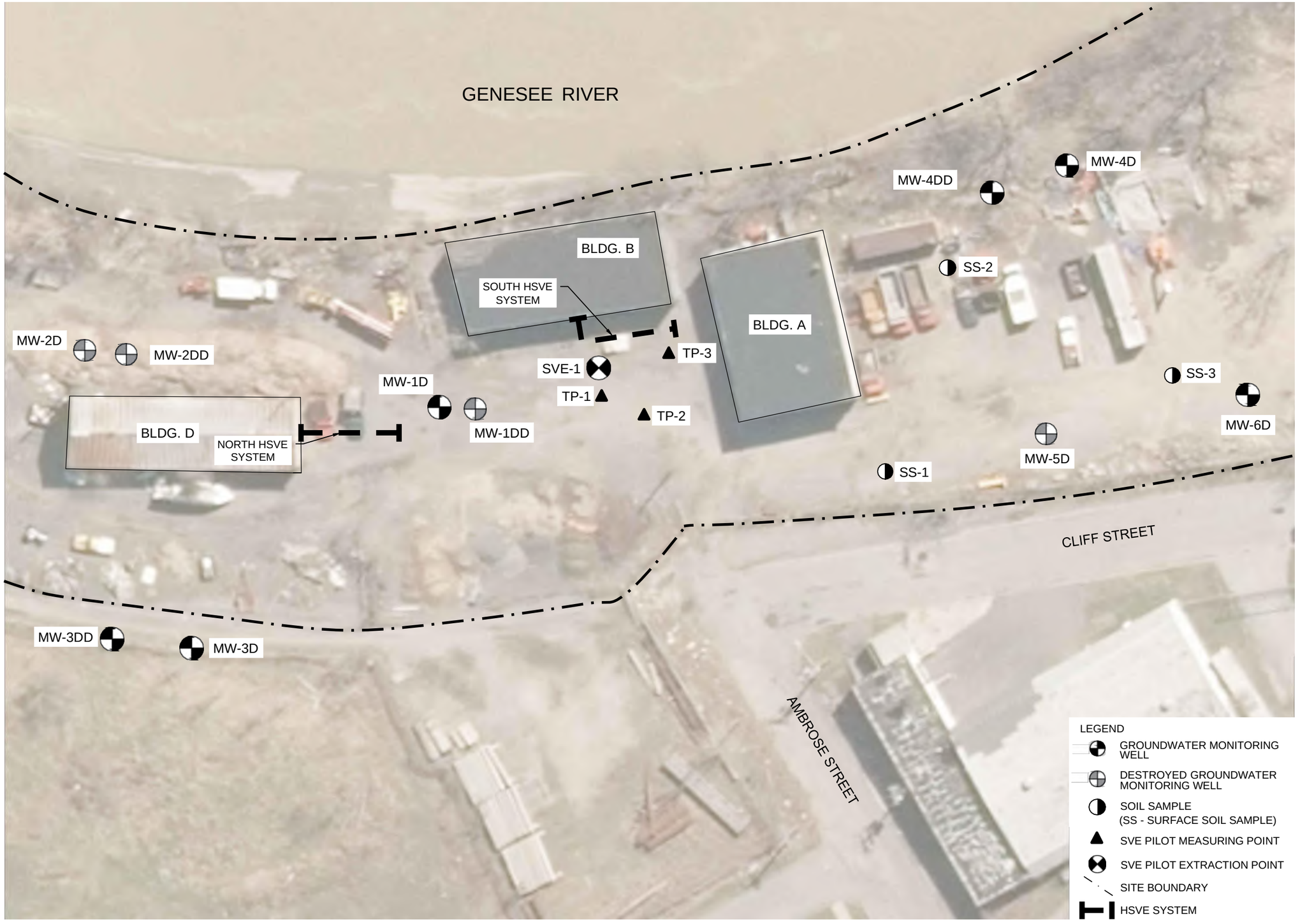
NO.	DATE

DESIGNED BY: CMS
DRAWN BY: CMS
REVIEWED BY: MEW

ISSUE DATE: 10/7/2021
PROJECT NUMBER: DEC1007.RA
SHEET SIZE: 11"x17"

SITE PLAN
FORMER RAECO PRODUCTS
(SITE#828107)
24 SPENCER STREET
ROCHESTER, NEW YORK 14608

FIGURE
2



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0 20' 40'

REVISIONS

NO.	DATE

DESIGNED BY: CMS
DRAWN BY: CMS
REVIEWED BY: MEW

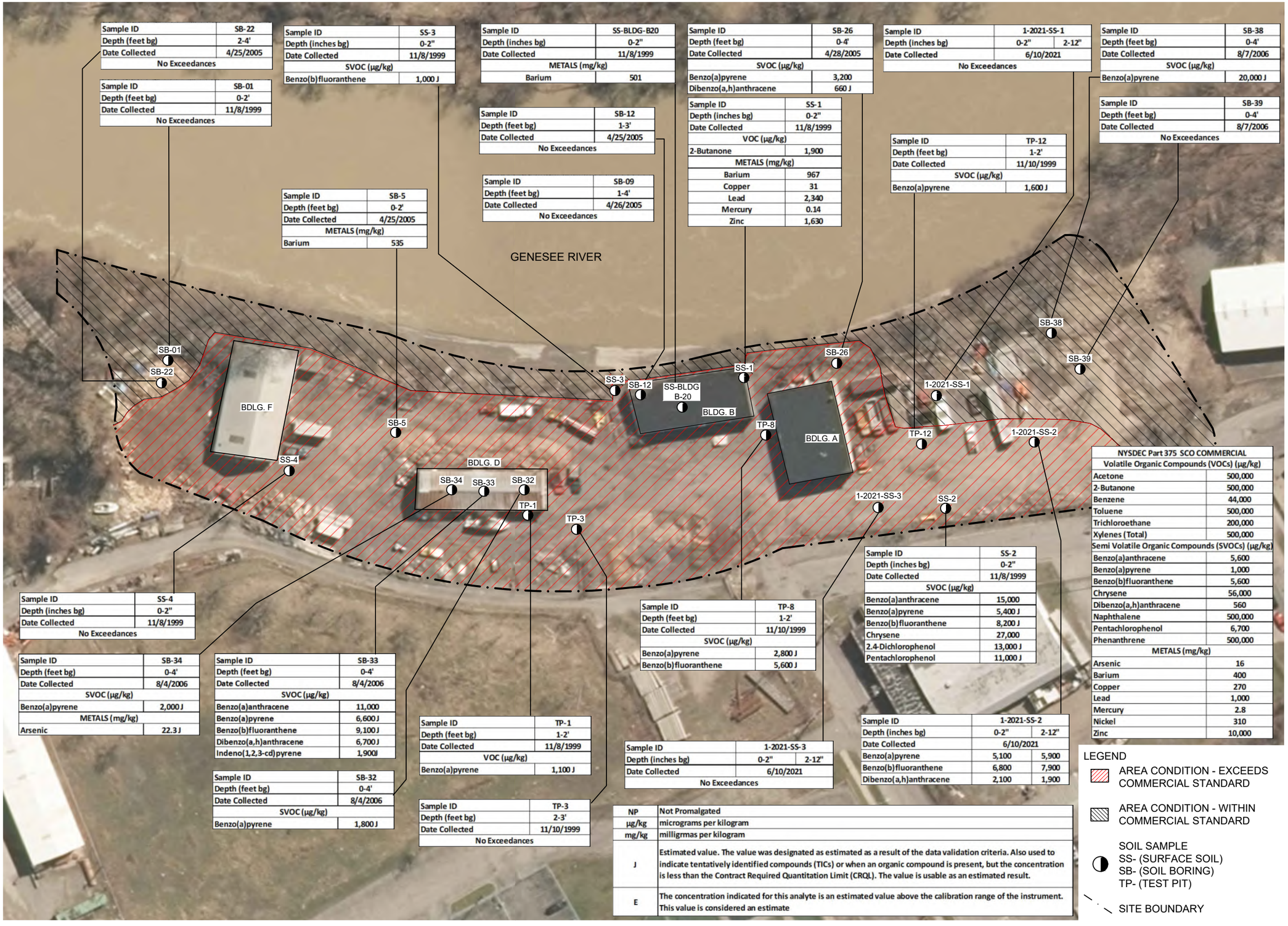
ISSUE DATE: 10/07/2021
PROJECT NUMBER: DEC1007.RA
SHEET SIZE: 11"x17"

PRE-DESIGN INVESTIGATION
SAMPLE LOCATIONS

FORMER RAECO PRODUCTS
(SITE#828107)

24 SPENCER STREET
ROCHESTER, NEW YORK 14608

FIGURE
3



Sample ID	SB-22
Depth (feet bg)	2-4'
Date Collected	4/25/2005
No Exceedances	

Sample ID	SB-01
Depth (feet bg)	0-2'
Date Collected	11/8/1999
No Exceedances	

Sample ID	SS-3
Depth (inches bg)	0-2"
Date Collected	11/8/1999
SVOC (µg/kg)	
Benzo(b)fluoranthene	1,000 J

Sample ID	SS-BLDG-B20
Depth (inches bg)	0-2"
Date Collected	11/8/1999
METALS (mg/kg)	
Barium	501

Sample ID	SB-26
Depth (feet bg)	0-4'
Date Collected	4/28/2005
SVOC (µg/kg)	
Benzo(a)pyrene	3,200
Dibenzo(a,h)anthracene	660 J

Sample ID	1-2021-SS-1	
Depth (inches bg)	0-2"	2-12"
Date Collected	6/10/2021	
No Exceedances		

Sample ID	SB-38
Depth (feet bg)	0-4'
Date Collected	8/7/2006
SVOC (µg/kg)	
Benzo(a)pyrene	20,000 J

Sample ID	SB-39
Depth (feet bg)	0-4'
Date Collected	8/7/2006
No Exceedances	

Sample ID	SB-12
Depth (feet bg)	1-3'
Date Collected	4/25/2005
No Exceedances	

Sample ID	SS-1
Depth (inches bg)	0-2"
Date Collected	11/8/1999
VOC (µg/kg)	
2-Butanone	1,900
METALS (mg/kg)	
Barium	967
Copper	31
Lead	2,340
Mercury	0.14
Zinc	1,630

Sample ID	TP-12
Depth (feet bg)	1-2'
Date Collected	11/10/1999
SVOC (µg/kg)	
Benzo(a)pyrene	1,600 J

Sample ID	SB-09
Depth (feet bg)	1-4'
Date Collected	4/26/2005
No Exceedances	

Sample ID	SB-5
Depth (feet bg)	0-2'
Date Collected	4/25/2005
METALS (mg/kg)	
Barium	535

NYSDEC Part 375 SCO COMMERCIAL	
Volatile Organic Compounds (VOCs) (µg/kg)	
Acetone	500,000
2-Butanone	500,000
Benzene	44,000
Toluene	500,000
Trichloroethane	200,000
Xylenes (Total)	500,000
Semi Volatile Organic Compounds (SVOCs) (µg/kg)	
Benzo(a)anthracene	5,600
Benzo(a)pyrene	1,000
Benzo(b)fluoranthene	5,600
Chrysene	56,000
Dibenzo(a,h)anthracene	560
Naphthalene	500,000
Pentachlorophenol	6,700
Phenanthrene	500,000
METALS (mg/kg)	
Arsenic	16
Barium	400
Copper	270
Lead	1,000
Mercury	2.8
Nickel	310
Zinc	10,000

Sample ID	SS-4
Depth (inches bg)	0-2"
Date Collected	11/8/1999
No Exceedances	

Sample ID	SB-34
Depth (feet bg)	0-4'
Date Collected	8/4/2006
SVOC (µg/kg)	
Benzo(a)pyrene	2,000 J
METALS (mg/kg)	
Arsenic	22.3 J

Sample ID	SB-33
Depth (feet bg)	0-4'
Date Collected	8/4/2006
SVOC (µg/kg)	
Benzo(a)anthracene	11,000
Benzo(a)pyrene	6,600 J
Benzo(b)fluoranthene	9,100 J
Dibenzo(a,h)anthracene	6,700 J
Indeno(1,2,3-cd)pyrene	1,900J

Sample ID	SB-32
Depth (feet bg)	0-4'
Date Collected	8/4/2006
SVOC (µg/kg)	
Benzo(a)pyrene	1,800 J

Sample ID	TP-1
Depth (feet bg)	1-2'
Date Collected	11/8/1999
VOC (µg/kg)	
Benzo(a)pyrene	1,100 J

Sample ID	TP-3
Depth (feet bg)	2-3'
Date Collected	11/10/1999
No Exceedances	

Sample ID	TP-8
Depth (feet bg)	1-2'
Date Collected	11/10/1999
SVOC (µg/kg)	
Benzo(a)pyrene	2,800 J
Benzo(b)fluoranthene	5,600 J

Sample ID	SS-2
Depth (inches bg)	0-2"
Date Collected	11/8/1999
SVOC (µg/kg)	
Benzo(a)anthracene	15,000
Benzo(a)pyrene	5,400 J
Benzo(b)fluoranthene	8,200 J
Chrysene	27,000
2.4-Dichlorophenol	13,000 J
Pentachlorophenol	11,000 J

Sample ID	1-2021-SS-3	
Depth (inches bg)	0-2"	2-12"
Date Collected	6/10/2021	
No Exceedances		

Sample ID	1-2021-SS-2	
Depth (inches bg)	0-2"	2-12"
Date Collected	6/10/2021	
Benzo(a)pyrene	5,100	5,900
Benzo(b)fluoranthene	6,800	7,900
Dibenzo(a,h)anthracene	2,100	1,900

NP	Not Promalgated
µg/kg	micrograms per kilogram
mg/kg	milligrmas per kilogram
J	Estimated value. The value was designated as estimated as a result of the data validation criteria. Also used to indicate tentatively identified compounds (TICs) or when an organic compound is present, but the concentration is less than the Contract Required Quantitation Limit (CRQL). The value is usable as an estimated result.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate

LEGEND

- AREA CONDITION - EXCEEDS COMMERCIAL STANDARD
- AREA CONDITION - WITHIN COMMERCIAL STANDARD
- SOIL SAMPLE
  - SS- (SURFACE SOIL)
  - SB- (SOIL BORING)
  - TP- (TEST PIT)
- SITE BOUNDARY

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REVISIONS

NO.	DATE

DESIGNED BY: CMS
DRAWN BY: CMS
REVIEWED BY: MEW

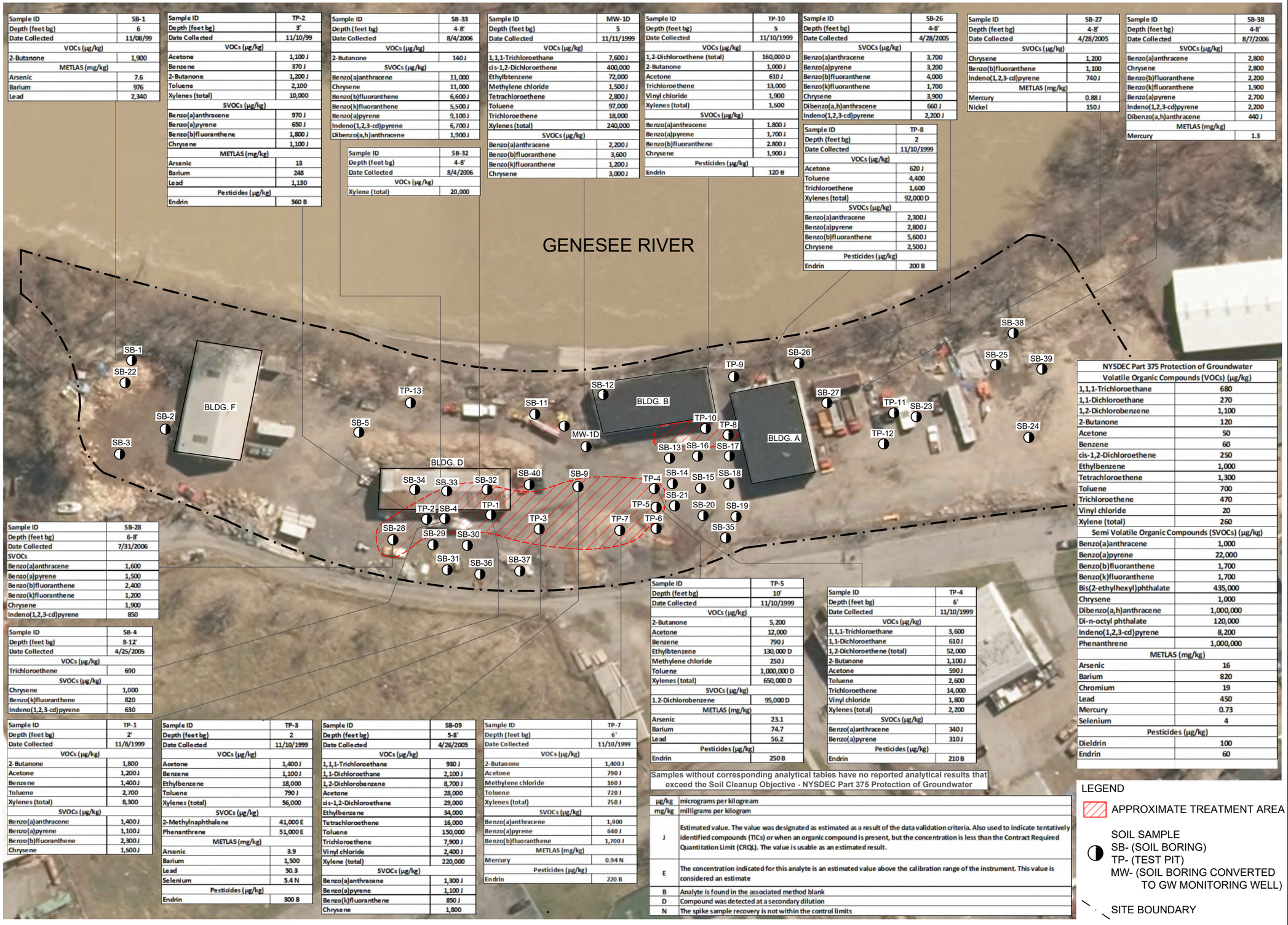
ISSUE DATE: 07/27/2021
PROJECT NUMBER: DEC1007.RA
SHEET SIZE: 11"x17"

SURFACE SOIL SAMPLE LOCATIONS AND ANALYTICAL SUMMARY (EXCEEDANCES ONLY)

FORMER RAECO PRODUCTS (SITE#828107)

24 SPENCER STREET
ROCHESTER, NEW YORK 14608

FIGURE
4



Sample ID	SB-1
Depth (feet bg)	6
Date Collected	11/08/99
VOCs (µg/kg)	
2-Butanone	1,900
METLAS (mg/kg)	
Arsenic	7.6
Barium	976
Lead	2,340

Sample ID	TP-2
Depth (feet bg)	3'
Date Collected	11/10/99
VOCs (µg/kg)	
Acetone	1,100 J
Benzene	370 J
2-Butanone	1,200 J
Toluene	2,100
Xylenes (total)	10,000
SVOCs (µg/kg)	
Benzo(a)anthracene	970 J
Benzo(a)pyrene	650 J
Benzo(b)fluoranthene	1,800 J
Chrysene	1,100 J
METLAS (mg/kg)	
Arsenic	13
Barium	248
Lead	1,130
Pesticides (µg/kg)	
Endrin	560 B

Sample ID	SB-33
Depth (feet bg)	4-8'
Date Collected	8/4/2006
VOCs (µg/kg)	
2-Butanone	140 J
SVOCs (µg/kg)	
Benzo(a)anthracene	11,000
Chrysene	11,000
Benzo(b)fluoranthene	6,600 J
Benzo(k)fluoranthene	5,500 J
Benzo(a)pyrene	9,100 J
Indeno(1,2,3-cd)pyrene	6,700 J
Dibenzo(a,h)anthracene	1,900 J

Sample ID	SB-32
Depth (feet bg)	4-8'
Date Collected	8/4/2006
VOCs (µg/kg)	
Xylene (total)	20,000

Sample ID	MW-1D
Depth (feet bg)	5
Date Collected	11/11/1999
VOCs (µg/kg)	
1,1,1-Trichloroethane	7,600 J
cis-1,2-Dichloroethene	400,000
Ethylbtenzene	72,000
Methylene chloride	1,500 J
Tetrachloroethene	2,800 J
Toluene	97,000
Trichloroethene	18,000
Xylenes (total)	240,000
SVOCs (µg/kg)	
Benzo(a)anthracene	2,200 J
Benzo(b)fluoranthene	3,600
Benzo(k)fluoranthene	1,200 J
Chrysene	3,000 J

Sample ID	TP-10
Depth (feet bg)	5
Date Collected	11/10/1999
VOCs (µg/kg)	
1,2-Dichloroethene (total)	160,000 D
2-Butanone	1,000 J
Acetone	610 J
Trichloroethene	13,000
Vinyl chloride	1,900
Xylenes (total)	1,500
SVOCs (µg/kg)	
Benzo(a)anthracene	1,800 J
Benzo(a)pyrene	1,700 J
Benzo(b)fluoranthene	2,800 J
Chrysene	1,900 J
Pesticides (µg/kg)	
Endrin	120 B

Sample ID	SB-26
Depth (feet bg)	4-8'
Date Collected	4/28/2005
SVOCs (µg/kg)	
Benzo(a)anthracene	3,700
Benzo(a)pyrene	3,200
Benzo(b)fluoranthene	4,000
Benzo(k)fluoranthene	1,700
Chrysene	3,900
Dibenzo(a,h)anthracene	660 J
Indeno(1,2,3-cd)pyrene	2,200 J

Sample ID	TP-8
Depth (feet bg)	2
Date Collected	11/10/1999
VOCs (µg/kg)	
Acetone	620 J
Toluene	4,400
Trichloroethene	1,600
Xylenes (total)	92,000 D
SVOCs (µg/kg)	
Benzo(a)anthracene	2,300 J
Benzo(a)pyrene	2,800 J
Benzo(b)fluoranthene	5,600 J
Chrysene	2,500 J
Pesticides (µg/kg)	
Endrin	200 B

Sample ID	SB-27
Depth (feet bg)	4-8'
Date Collected	4/28/2005
SVOCs (µg/kg)	
Chrysene	1,200
Benzo(b)fluoranthene	1,100
Indeno(1,2,3-cd)pyrene	740 J
METLAS (mg/kg)	
Mercury	0.88 J
Nickel	150 J

Sample ID	SB-38
Depth (feet bg)	4-8'
Date Collected	8/7/2006
SVOCs (µg/kg)	
Benzo(a)anthracene	2,800
Chrysene	2,800
Benzo(b)fluoranthene	2,200
Benzo(k)fluoranthene	1,900
Benzo(a)pyrene	2,700
Indeno(1,2,3-cd)pyrene	2,200
Dibenzo(a,h)anthracene	440 J
METLAS (mg/kg)	
Mercury	1.3

Sample ID	SB-28
Depth (feet bg)	6-8'
Date Collected	7/31/2006
SVOCs	
Benzo(a)anthracene	1,600
Benzo(a)pyrene	1,500
Benzo(b)fluoranthene	2,400
Benzo(k)fluoranthene	1,200
Chrysene	1,900
Indeno(1,2,3-cd)pyrene	850

Sample ID	SB-4
Depth (feet bg)	8-12'
Date Collected	4/25/2005
VOCs (µg/kg)	
Trichloroethene	690
SVOCs (µg/kg)	
Chrysene	1,000
Benzo(k)fluoranthene	820
Indeno(1,2,3-cd)pyrene	630

Sample ID	TP-1
Depth (feet bg)	2'
Date Collected	11/8/1999
VOCs (µg/kg)	
2-Butanone	1,800
Acetone	1,200 J
Benzene	1,400 J
Toluene	2,700
Xylenes (total)	8,300
SVOCs (µg/kg)	
Benzo(a)anthracene	1,400 J
Benzo(a)pyrene	1,100 J
Benzo(b)fluoranthene	2,300 J
Chrysene	1,500 J

Sample ID	TP-3
Depth (feet bg)	2
Date Collected	11/10/1999
VOCs (µg/kg)	
Acetone	1,400 J
Benzene	1,100 J
Ethylbenzene	18,000
Toluene	790 J
Xylenes (total)	56,000
SVOCs (µg/kg)	
2-Methylnaphthalene	41,000 E
Phenanthrene	51,000 E
METLAS (mg/kg)	
Arsenic	3.9
Barium	1,500
Lead	50.3
Selenium	5.4 N
Pesticides (µg/kg)	
Endrin	300 B

Sample ID	SB-09
Depth (feet bg)	5-8'
Date Collected	4/26/2005
VOCs (µg/kg)	
1,1,1-Trichloroethane	930 J
1,1-Dichloroethane	2,100 J
1,2-Dichlorobenzene	8,700 J
Acetone	28,000
cis-1,2-Dichloroethene	29,000
Ethylbenzene	34,000
Tetrachloroethene	16,000
Toluene	150,000
Trichloroethene	7,900 J
Vinyl chloride	2,400 J
Xylene (total)	220,000
SVOCs (µg/kg)	
Benzo(a)anthracene	1,300 J
Benzo(a)pyrene	1,100 J
Benzo(k)fluoranthene	850 J
Chrysene	1,800

Sample ID	TP-7
Depth (feet bg)	6'
Date Collected	11/10/1999
VOCs (µg/kg)	
2-Butanone	1,400 J
Acetone	790 J
Methylene chloride	160 J
Toluene	720 J
Xylenes (total)	750 J
SVOCs (µg/kg)	
Benzo(a)anthracene	1,900
Benzo(a)pyrene	640 J
Benzo(b)fluoranthene	1,700 J
METLAS (mg/kg)	
Mercury	0.94 N
Pesticides (µg/kg)	
Endrin	220 B

Sample ID	TP-5
Depth (feet bg)	10'
Date Collected	11/10/1999
VOCs (µg/kg)	
2-Butanone	5,200
Acetone	12,000
Benzene	790 J
Ethylbtenzene	130,000 D
Methylene chloride	250 J
Toluene	1,000,000 D
Xylenes (total)	650,000 D
SVOCs (µg/kg)	
1.2-Dichlorobenzene	95,000 D
METLAS (mg/kg)	
Arsenic	23.1
Barium	74.7
Lead	56.2
Pesticides (µg/kg)	
Endrin	250 B

Sample ID	TP-4
Depth (feet bg)	6'
Date Collected	11/10/1999
VOCs (µg/kg)	
1,1,1-Trichloroethane	3,600
1,1-Dichloroethane	610 J
1,2-Dichloroethene (total)	52,000
2-Butanone	1,100 J
Acetone	590 J
Toluene	2,600
Trichloroethene	14,000
Vinyl chloride	1,800
Xylenes (total)	2,200
SVOCs (µg/kg)	
Benzo(a)anthracene	340 J
Benzo(a)pyrene	310 J
Pesticides (µg/kg)	
Endrin	210 B

Samples without corresponding analytical tables have no reported analytical results that exceed the Soil Cleanup Objective - NYSDEC Part 375 Protection of Groundwater

NYSDEC Part 375 Protection of Groundwater	
Volatile Organic Compounds (VOCs) (µg/kg)	
1,1,1-Trichloroethane	680
1,1-Dichloroethane	270
1,2-Dichlorobenzene	1,100
2-Butanone	120
Acetone	50
Benzene	60
cis-1,2-Dichloroethene	250
Ethylbenzene	1,000
Tetrachloroethene	1,300
Toluene	700
Trichloroethene	470
Vinyl chloride	20
Xylene (total)	260
Semi Volatile Organic Compounds (SVOCs) (µg/kg)	
Benzo(a)anthracene	1,000
Benzo(a)pyrene	22,000
Benzo(b)fluoranthene	1,700
Benzo(k)fluoranthene	1,700
Bis(2-ethylhexyl)phthalate	435,000
Chrysene	1,000
Dibenzo(a,h)anthracene	1,000,000
Di-n-octyl phthalate	120,000
Indeno(1,2,3-cd)pyrene	8,200
Phenanthrene	1,000,000
METLAS (mg/kg)	
Arsenic	16
Barium	820
Chromium	19
Lead	450
Mercury	0.73
Selenium	4
Pesticides (µg/kg)	
Dieldrin	100
Endrin	60

µg/kg	micrograms per kilogream
mg/kg	milligrams per kilogram
J	Estimated value. The value was designated as estimated as a result of the data validation criteria. Also used to indicate tentatively identified compounds (TICs) or when an organic compound is present, but the concentration is less than the Contract Required Quantitation Limit (CRQL). The value is usable as an estimated result.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate
B	Analyte is found in the associated method blank
D	Compound was detected at a secondary dilution
N	The spike sample recovery is not within the control limits

LEGEND

APPROXIMATE TREATMENT AREA

SOIL SAMPLE
SB- (SOIL BORING)
TP- (TEST PIT)
MW- (SOIL BORING CONVERTED TO GW MONITORING WELL)

SITE BOUNDARY

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NORTH

0 40' 80'

REVISIONS

NO.	DATE

DESIGNED BY: CMS
DRAWN BY: CMS
REVIEWED BY: MEW

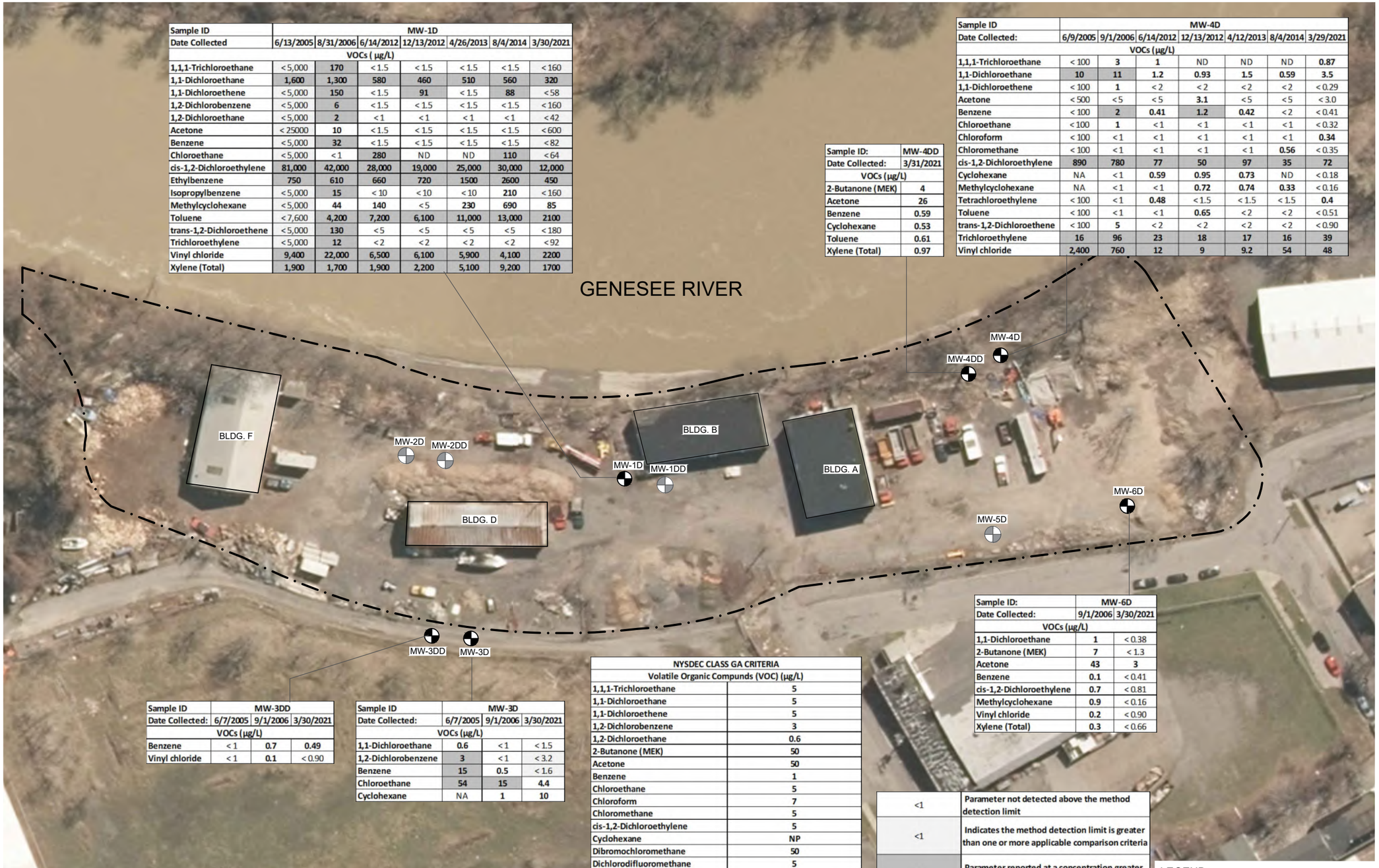
ISSUE DATE: 10/072021
PROJECT NUMBER: DEC1007.RA
SHEET SIZE: 11"x17"

SUBSURFACE SOIL SAMPLE LOCATIONS AND ANALYTICAL SUMMARY (EXCEEDANCES ONLY)

FORMER RAECO PRODUCTS (SITE#828107)

24 SPENCER STREET
ROCHESTER, NEW YORK 14608

FIGURE
5



Sample ID	MW-1D						
Date Collected	6/13/2005	8/31/2006	6/14/2012	12/13/2012	4/26/2013	8/4/2014	3/30/2021
VOCs (µg/L)							
1,1,1-Trichloroethane	< 5,000	170	< 1.5	< 1.5	< 1.5	< 1.5	< 160
1,1-Dichloroethane	1,600	1,300	580	460	510	560	320
1,1-Dichloroethene	< 5,000	150	< 1.5	91	< 1.5	88	< 58
1,2-Dichlorobenzene	< 5,000	6	< 1.5	< 1.5	< 1.5	< 1.5	< 160
1,2-Dichloroethane	< 5,000	2	< 1	< 1	< 1	< 1	< 42
Acetone	< 25000	10	< 1.5	< 1.5	< 1.5	< 1.5	< 600
Benzene	< 5,000	32	< 1.5	< 1.5	< 1.5	< 1.5	< 82
Chloroethane	< 5,000	< 1	280	ND	ND	110	< 64
cis-1,2-Dichloroethylene	81,000	42,000	28,000	19,000	25,000	30,000	12,000
Ethylbenzene	750	610	660	720	1500	2600	450
Isopropylbenzene	< 5,000	15	< 10	< 10	< 10	210	< 160
Methylcyclohexane	< 5,000	44	140	< 5	230	690	85
Toluene	< 7,600	4,200	7,200	6,100	11,000	13,000	2100
trans-1,2-Dichloroethene	< 5,000	130	< 5	< 5	< 5	< 5	< 180
Trichloroethylene	< 5,000	12	< 2	< 2	< 2	< 2	< 92
Vinyl chloride	9,400	22,000	6,500	6,100	5,900	4,100	2200
Xylene (Total)	1,900	1,700	1,900	2,200	5,100	9,200	1700

Sample ID:	MW-4DD
Date Collected:	3/31/2021
VOCs (µg/L)	
2-Butanone (MEK)	4
Acetone	26
Benzene	0.59
Cyclohexane	0.53
Toluene	0.61
Xylene (Total)	0.97

Sample ID	MW-4D						
Date Collected:	6/9/2005	9/1/2006	6/14/2012	12/13/2012	4/12/2013	8/4/2014	3/29/2021
VOCs (µg/L)							
1,1,1-Trichloroethane	< 100	3	1	ND	ND	ND	0.87
1,1-Dichloroethane	10	11	1.2	0.93	1.5	0.59	3.5
1,1-Dichloroethene	< 100	1	< 2	< 2	< 2	< 2	< 0.29
Acetone	< 500	< 5	< 5	3.1	< 5	< 5	< 3.0
Benzene	< 100	2	0.41	1.2	0.42	< 2	< 0.41
Chloroethane	< 100	1	< 1	< 1	< 1	< 1	< 0.32
Chloroform	< 100	< 1	< 1	< 1	< 1	< 1	0.34
Chloromethane	< 100	< 1	< 1	< 1	< 1	0.56	< 0.35
cis-1,2-Dichloroethylene	890	780	77	50	97	35	72
Cyclohexane	NA	< 1	0.59	0.95	0.73	ND	< 0.18
Methylcyclohexane	NA	< 1	< 1	0.72	0.74	0.33	< 0.16
Tetrachloroethylene	< 100	< 1	0.48	< 1.5	< 1.5	< 1.5	0.4
Toluene	< 100	< 1	< 1	0.65	< 2	< 2	< 0.51
trans-1,2-Dichloroethene	< 100	5	< 2	< 2	< 2	< 2	< 0.90
Trichloroethylene	16	96	23	18	17	16	39
Vinyl chloride	2,400	760	12	9	9.2	54	48

Sample ID:	MW-6D	
Date Collected:	9/1/2006	3/30/2021
VOCs (µg/L)		
1,1-Dichloroethane	1	< 0.38
2-Butanone (MEK)	7	< 1.3
Acetone	43	3
Benzene	0.1	< 0.41
cis-1,2-Dichloroethylene	0.7	< 0.81
Methylcyclohexane	0.9	< 0.16
Vinyl chloride	0.2	< 0.90
Xylene (Total)	0.3	< 0.66

Sample ID	MW-3DD		
Date Collected:	6/7/2005	9/1/2006	3/30/2021
VOCs (µg/L)			
Benzene	< 1	0.7	0.49
Vinyl chloride	< 1	0.1	< 0.90

Sample ID	MW-3D		
Date Collected:	6/7/2005	9/1/2006	3/30/2021
VOCs (µg/L)			
1,1-Dichloroethane	0.6	< 1	< 1.5
1,2-Dichlorobenzene	3	< 1	< 3.2
Benzene	15	0.5	< 1.6
Chloroethane	54	15	4.4
Cyclohexane	NA	1	10

NYSDEC CLASS GA CRITERIA	
Volatile Organic Compunds (VOC) (µg/L)	
1,1,1-Trichloroethane	5
1,1-Dichloroethane	5
1,1-Dichloroethene	5
1,2-Dichlorobenzene	3
1,2-Dichloroethane	0.6
2-Butanone (MEK)	50
Acetone	50
Benzene	1
Chloroethane	5
Chloroform	7
Chloromethane	5
cis-1,2-Dichloroethylene	5
Cyclohexane	NP
Dibromochloromethane	50
Dichlorodifluoromethane	5
Ethylbenzene	5
Isopropylbenzene	5
Methylcyclohexane	NP
Tetrachloroethylene	5
Toluene	5
trans-1,2-Dichloroethene	5
Trichloroethylene	5
Vinyl chloride	2
Xylene (Total)	5

<1	Parameter not detected above the method detection limit
<1	Indicates the method detection limit is greater than one or more applicable comparison criteria
1	Parameter reported at a concentration greater than applicable regulatory standard/criterion
1	Parameter reported above the laboratory method detection limit but below the applicable regulatory standard/criterion

µg/l = micrograms per liter
NA = Sample was not analyzed for given compound
NP = Not Promalgated
ND = non detect

LEGEND

- GROUNDWATER MONITORING WELL
- DESTROYED GROUNDWATER MONITORING WELL
- SITE BOUNDARY

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NORTH

0 40' 80'

REVISIONS

NO.	DATE

DESIGNED BY: CMS
DRAWN BY: CMS
REVIEWED BY: MEW

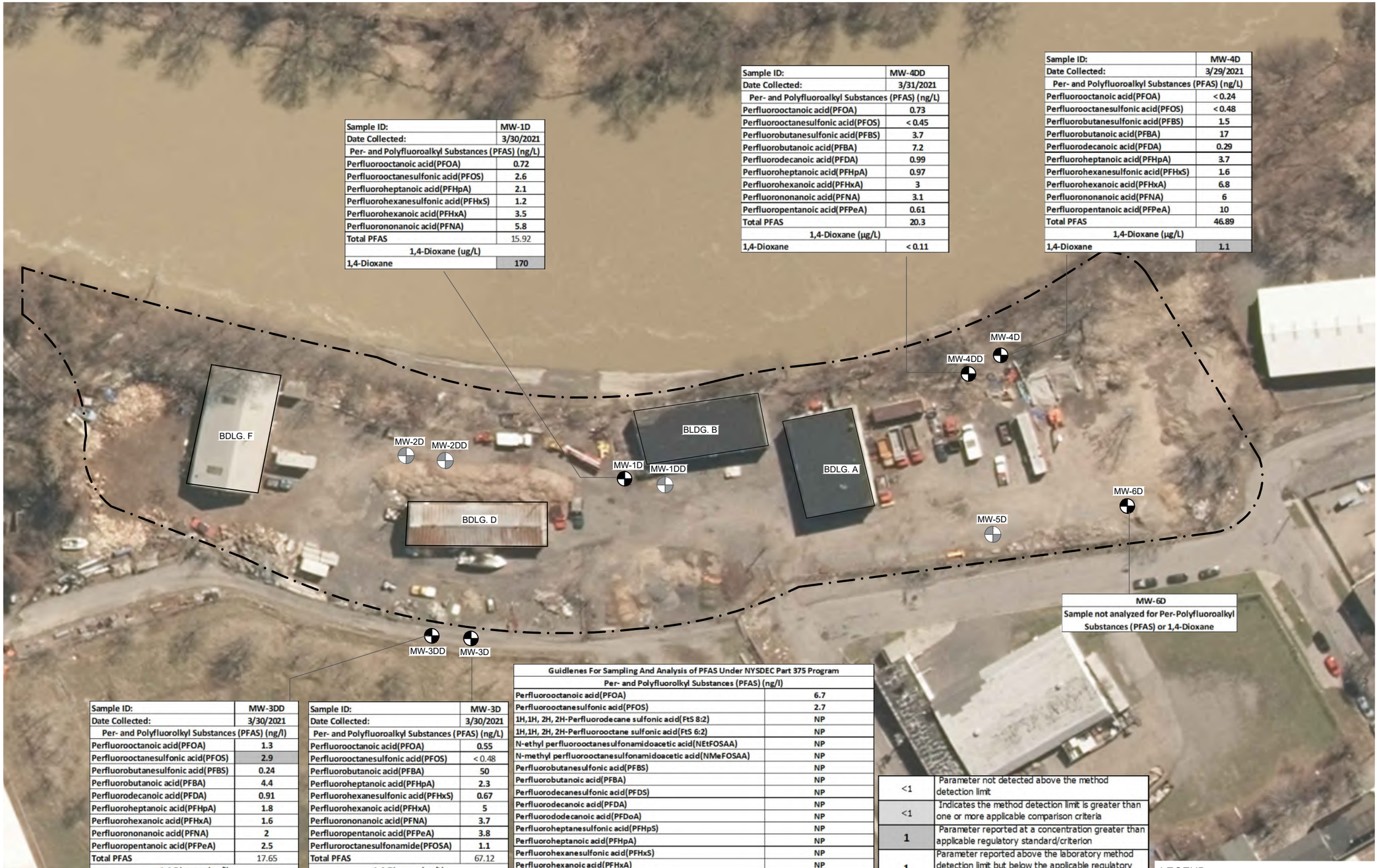
ISSUE DATE: 10/07/2021
PROJECT NUMBER: DEC1007.RA
SHEET SIZE: 11"x17"

GROUNDWATER SAMPLING SUMMARY
(VOC DETECTIONS ONLY)

FORMER RAECO PRODUCTS
(SITE#828107)

24 SPENCER STREET
ROCHESTER, NEW YORK 14608

FIGURE
6



Sample ID:	MW-1D
Date Collected:	3/30/2021
Per- and Polyfluoroalkyl Substances (PFAS) (ng/L)	
Perfluorooctanoic acid(PFOA)	0.72
Perfluorooctanesulfonic acid(PFOS)	2.6
Perfluoroheptanoic acid(PFHpA)	2.1
Perfluorohexanesulfonic acid(PFHxS)	1.2
Perfluorohexanoic acid(PFHxA)	3.5
Perfluorononanoic acid(PFNA)	5.8
Total PFAS	15.92
1,4-Dioxane (ug/L)	
1,4-Dioxane	170

Sample ID:	MW-4DD
Date Collected:	3/31/2021
Per- and Polyfluoroalkyl Substances (PFAS) (ng/L)	
Perfluorooctanoic acid(PFOA)	0.73
Perfluorooctanesulfonic acid(PFOS)	< 0.45
Perfluorobutanesulfonic acid(PFBS)	3.7
Perfluorobutanoic acid(PFBA)	7.2
Perfluorodecanoic acid(PFDA)	0.99
Perfluoroheptanoic acid(PFHpA)	0.97
Perfluorohexanoic acid(PFHxA)	3
Perfluorononanoic acid(PFNA)	3.1
Perfluoropentanoic acid(PFPeA)	0.61
Total PFAS	20.3
1,4-Dioxane (µg/L)	
1,4-Dioxane	< 0.11

Sample ID:	MW-4D
Date Collected:	3/29/2021
Per- and Polyfluoroalkyl Substances (PFAS) (ng/L)	
Perfluorooctanoic acid(PFOA)	< 0.24
Perfluorooctanesulfonic acid(PFOS)	< 0.48
Perfluorobutanesulfonic acid(PFBS)	1.5
Perfluorobutanoic acid(PFBA)	17
Perfluorodecanoic acid(PFDA)	0.29
Perfluoroheptanoic acid(PFHpA)	3.7
Perfluorohexanesulfonic acid(PFHxS)	1.6
Perfluorohexanoic acid(PFHxA)	6.8
Perfluorononanoic acid(PFNA)	6
Perfluoropentanoic acid(PFPeA)	10
Total PFAS	46.89
1,4-Dioxane (µg/L)	
1,4-Dioxane	1.1

Sample ID:	MW-3DD
Date Collected:	3/30/2021
Per- and Polyfluoroalkyl Substances (PFAS) (ng/l)	
Perfluorooctanoic acid(PFOA)	1.3
Perfluorooctanesulfonic acid(PFOS)	2.9
Perfluorobutanesulfonic acid(PFBS)	0.24
Perfluorobutanoic acid(PFBA)	4.4
Perfluorodecanoic acid(PFDA)	0.91
Perfluoroheptanoic acid(PFHpA)	1.8
Perfluorohexanoic acid(PFHxA)	1.6
Perfluorononanoic acid(PFNA)	2
Perfluoropentanoic acid(PFPeA)	2.5
Total PFAS	17.65
1,4-Dioxane (ug/l)	
1,4-Dioxane	0.32

Sample ID:	MW-3D
Date Collected:	3/30/2021
Per- and Polyfluoroalkyl Substances (PFAS) (ng/L)	
Perfluorooctanoic acid(PFOA)	0.55
Perfluorooctanesulfonic acid(PFOS)	< 0.48
Perfluorobutanoic acid(PFBA)	50
Perfluoroheptanoic acid(PFHpA)	2.3
Perfluorohexanesulfonic acid(PFHxS)	0.67
Perfluorohexanoic acid(PFHxA)	5
Perfluorononanoic acid(PFNA)	3.7
Perfluoropentanoic acid(PFPeA)	3.8
Perfluorooctanesulfonamide(PFOSA)	1.1
Total PFAS	67.12
1,4-Dioxane (µg/L)	
1,4-Dioxane	64

Guidlenes For Sampling And Analysis of PFAS Under NYSDEC Part 375 Program	
Per- and Polyfluorolkyl Substances (PFAS) (ng/l)	
Perfluorooctanoic acid(PFOA)	6.7
Perfluorooctanesulfonic acid(PFOS)	2.7
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid(FtS 8:2)	NP
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid(FtS 6:2)	NP
N-ethyl perfluorooctanesulfonamidoacetic acid(NEtFOSAA)	NP
N-methyl perfluorooctanesulfonamidoacetic acid(NMeFOSAA)	NP
Perfluorobutanesulfonic acid(PFBS)	NP
Perfluorobutanoic acid(PFBA)	NP
Perfluorodecanesulfonic acid(PFDS)	NP
Perfluorodecanoic acid(PFDA)	NP
Perfluorododecanoic acid(PFDoA)	NP
Perfluoroheptanesulfonic acid(PFHpS)	NP
Perfluoroheptanoic acid(PFHpA)	NP
Perfluorohexanesulfonic acid(PFHxS)	NP
Perfluorohexanoic acid(PFHxA)	NP
Perfluorononanoic acid(PFNA)	NP
Perfluoropentanoic acid(PFPeA)	NP
Perfluorotetradecanoic acid(PFTA)	NP
Perfluorotridecanoic acid(PFTrDA)	NP
Perfluoroundecanoic acid(PFUnA)	NP
Perfluorooctanesulfonamide(PFOSA)	NP
Total PFAS	NP
1,4-Dioxane (ug/l)	
1,4-Dioxane	0.35

<1	Parameter not detected above the method detection limit
<1	Indicates the method detection limit is greater than one or more applicable comparison criteria
1	Parameter reported at a concentration greater than applicable regulatory standard/criterion
1	Parameter reported above the laboratory method detection limit but below the applicable regulatory standard/criterion

Notes :

ug/l = micorgrams per liter

NA = Sample was not analyzed for given compound

NE = No Established Standard

ND = non detect

NP= Not Promulgated

LEGEND

- GROUNDWATER MONITORING WELL
- DESTROYED GROUNDWATER MONITORING WELL
- SITE BOUNDARY

MW-6D
Sample not analyzed for Per-Polyfluoroalkyl Substances (PFAS) or 1,4-Dioxane

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REVISIONS

NO.	DATE

DESIGNED BY: CMS
DRAWN BY: CMS
REVIEWED BY: MEW

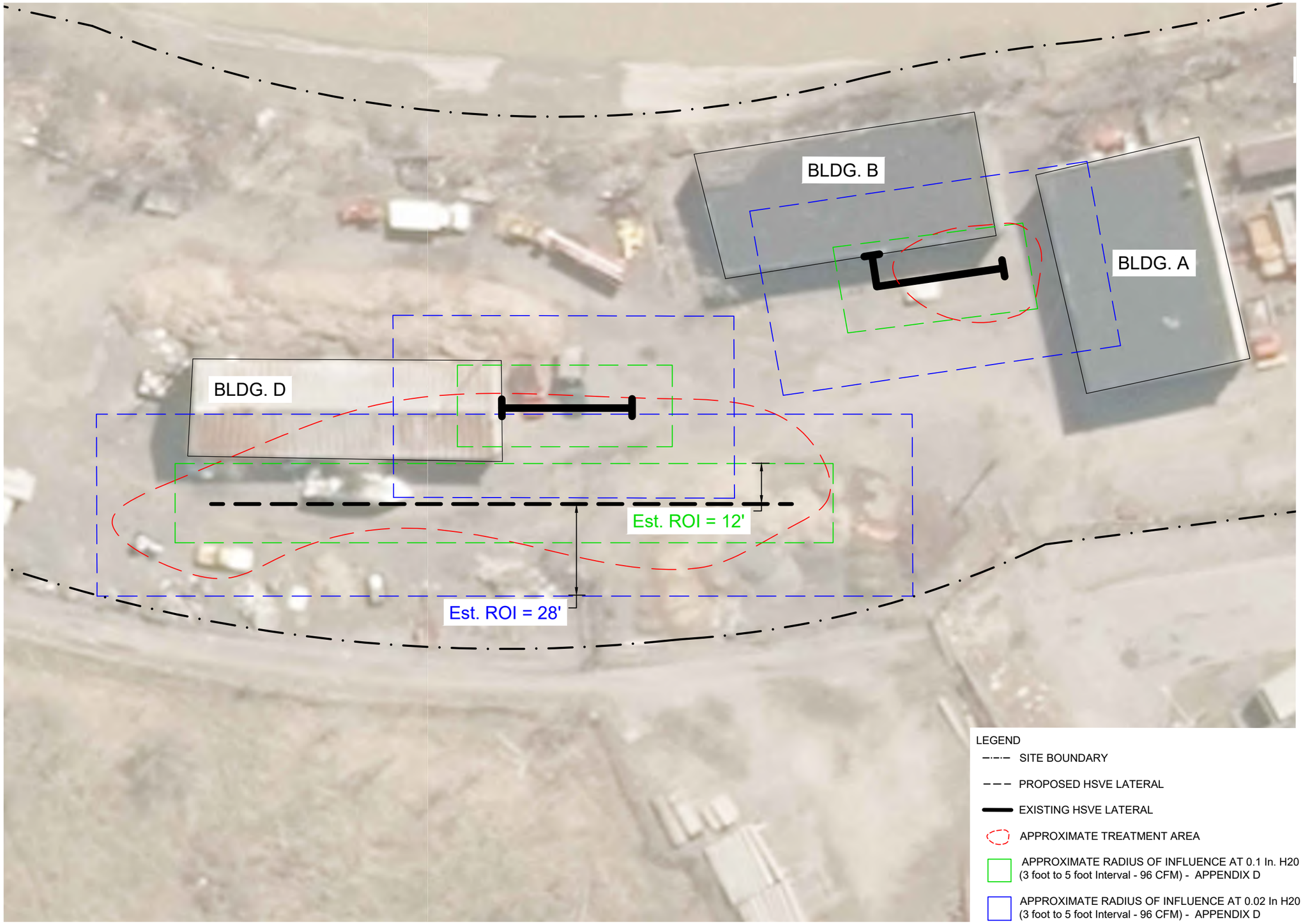
ISSUE DATE: 1/17/2021
PROJECT NUMBER: DEC1007.RA
SHEET SIZE: 11"x17"

GROUNDWATER SAMPLING SUMMARY
EMERGING CONTAMINANTS
(DETECTIONS ONLY)

FORMER RAECO PRODUCTS
(SITE#828107)

24 SPENCER STREET
ROCHESTER, NEW YORK 14608

FIGURE
7



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0 15' 30'

REVISIONS

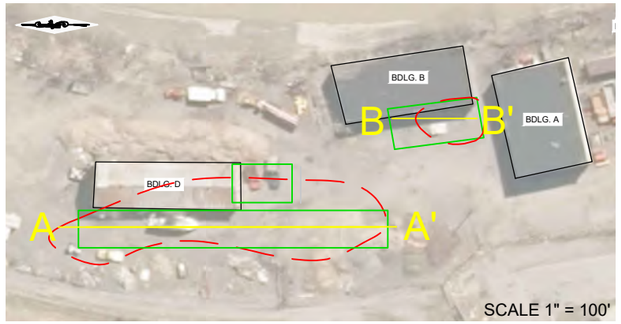
NO.	DATE

DESIGNED BY: MEW
DRAWN BY: SRT
REVIEWED BY: JRK

ISSUE DATE: 10/07/2021
PROJECT NUMBER: DEC1007.RA
SHEET SIZE: 11"x17"

PROPOSED HSVE DESIGN
FORMER RAECO PRODUCTS
(SITE#828107)
24 SPENCER STREET
ROCHESTER, NEW YORK 14608

FIGURE
8

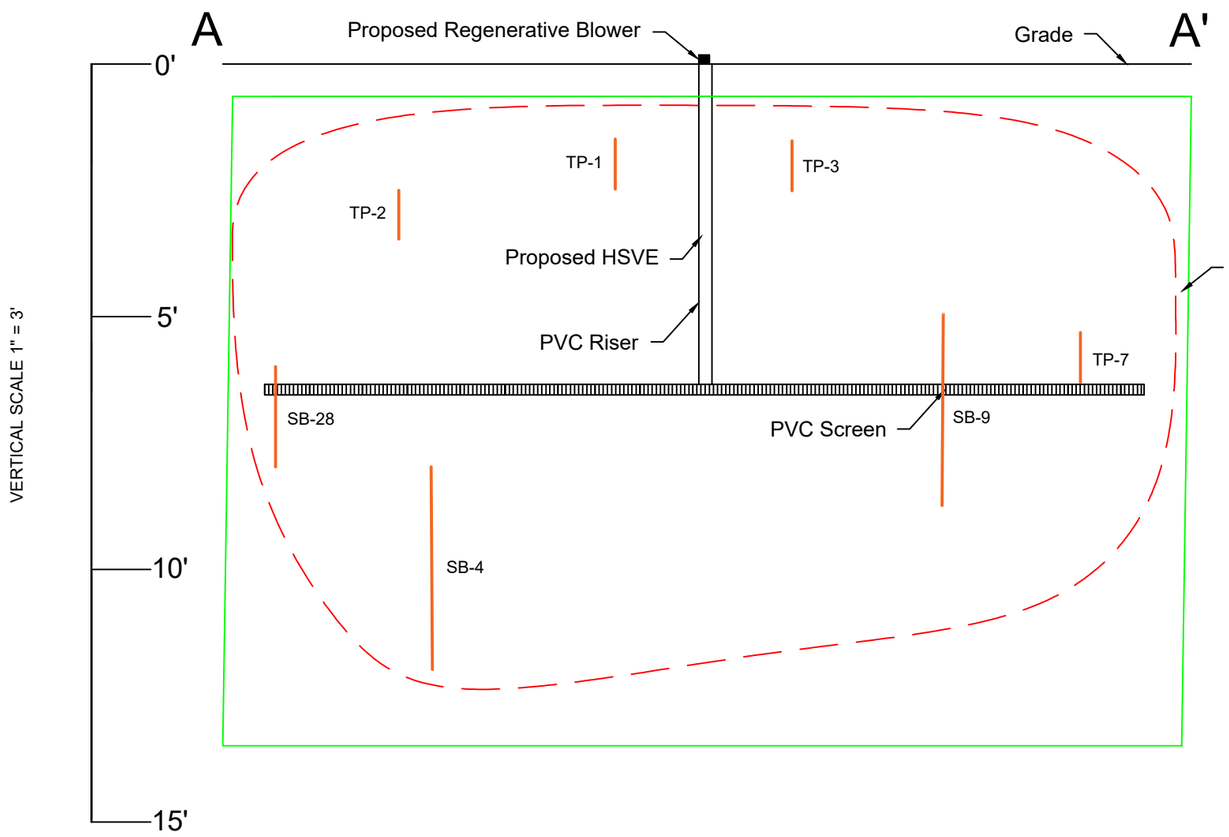


LEGEND

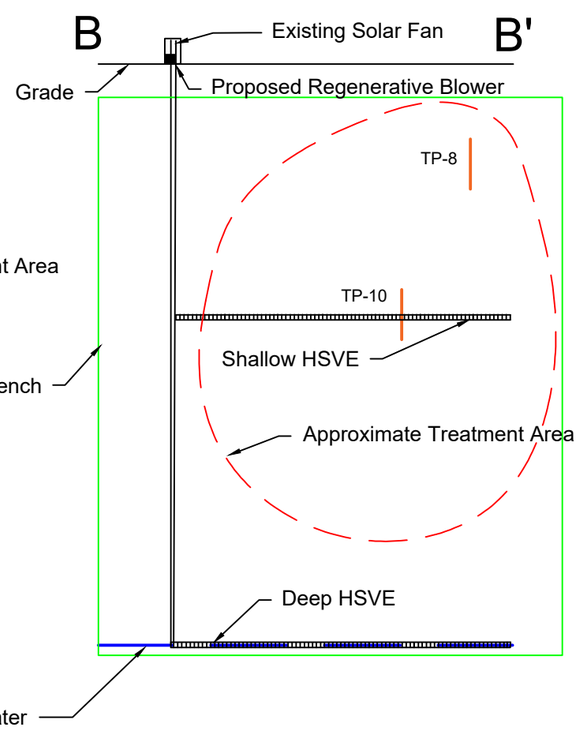
- APPROXIMATE TREATMENT AREA
- APPROXIMATE ROI AT 0.02 in. WC at 96 CFM
- A - A' CROSS SECTION TRANSECT

*THIS DRAWING IS A CONCEPT ONLY,
AND IS NOT INTENDED FOR CONSTRUCTION

PROPOSED HSVE SYSTEM



EXISTING SOUTH HSVE SYSTEM



HORIZONTAL SCALE 1" = 30' (10X VERTICAL EXAGGERATION)

SOIL SAMPLE CONCENTRATIONS EXCEEDING PROTECTION OF GROUNDWATER SOIL CLEANUP OBJECTIVES (SCOs)
(SEE FIGURE 5 FOR LABORATORY DATA SUMMARY)

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REVISIONS		
NO.	DATE	

DESIGNED BY:	DRAWN BY:	REVIEWED BY:
JRK	SRT	JRK

ISSUE DATE:	PROJECT NUMBER:	SHEET SIZE:
09/23/2021	DEC1007.RA	11"x17"

CROSS-SECTIONS OF TREATMENT AREAS
FORMER RAECO PRODUCTS
(SITE#828107)
24 SPENCER STREET
ROCHESTER, NEW YORK 14608

FIGURE
9

TABLES

Table 1
Surface Soil Analytical Summary
Site # 828107
Former RAECO Products Site
24 Spencer Street, Rochester

Lab Report No.:	375-6 SCO - UNRESTRICTED	375-6 SCO - PROTECTION OF GROUNDWATER	375-6 SCO - PROTECTION OF PUBLIC HEALTH - COMMERCIAL	4801858871	4801858871	4801858871	4801858871	4801858871	4801858871
ID:				S-1A 0-2	S-1B 2-12	S-2A 0-2	S-2B 2-12	S-3A 0-2	S-3B 2-12
Date Collected:				6/10/2021	6/10/2021	6/10/2021	6/10/2021	6/10/2021	6/10/2021
Volatile Organic Compounds (VOC) (ug/kg)									
Acetone	50	50	500,000	< 4.5	< 4.5	29	< 4.3	< 4.1	< 4.5
Methylene chloride	50	50	500,000	4.8	7.2	7.7	6	4	< 2.4
Trichloroethylene	470	470	200,000	2	1.2	< 1.1	< 1.1	< 1.1	< 1.2
Semi-Volatile Organic Compounds (SVOC) (ug/kg)									
Acenaphthylene	100,000	107,000	500,000	< 1,300	< 1300	< 110	1,200	< 22	< 23
Benzo(a)anthracene	1,000	1,000	5,600	3,800	4,600	< 83	< 870	66	47
Benzo(a)pyrene	1,000	22,000	1,000	5,100	5,900	< 120	< 1,300	97	75
Benzo(b)fluoranthene	1,000	1700	5,600	6,800	7,900	< 130	2,700	120	100
Benzo(ghi)perylene	100,000	1,000,000	500,000	4,800	5,500	< 88	2,700	96	77
Benzo(k)fluoranthene	800	1700	56,000	2,700	2,900	< 110	< 1,100	58	30
Bis(2-ethylhexyl)phthalate	NP	NP	NP	< 3,400	< 3,400	13,000	12,000	73	84
Chrysene	1,000	1000	56,000	4,800	5,200	< 190	< 2000	88	59
Dibenzo(a,H)anthracene	330	1,000,000	560	2,100	1,900	< 150	< 1500	48	< 31
Di-n-butyl phthalate	NP	8100	NP	< 1,700	< 1700	690	< 1500	52	120
Fluoranthene	100,000	1,000,000	500,000	7,900	9,300	< 88	1,900	150	97
Indeno(1,2,3-cd)pyrene	500	8200	5,600	4,300	4,900	< 100	2,400	86	71
Phenanthrene	100,000	1,000,000	500,000	3,900	3,700	< 120	< 1,300	67	44
Pyrene	100,000	1,000,000	500,000	7,300	7,600	< 98	1,800	130	83
Metals (mg/kg)									
Aluminum, Total	NP	NP	NP	4,890	5,500	4,580	3,710	5,780	5,250
Arsenic	13	16	16	3.1	3.8	2.5	2.4	4.9	4
Barium	350	820	400	61.8	69	24.5	60.5	80.3	32
Beryllium	7.2	47	590	0.28	0.3	0.19	0.17	0.28	0.21
Cadmium	2.5	7.5	9.3	0.47	0.42	0.11	0.18	0.43	0.35
Calcium	NP	NP	NP	84,900	86,200	118,000	146,000	13,300	15,300
Chromium, Total	1	19	400	22	17.8	6.4	6.2	7.8	6.8
Cobalt	NP	NP	NP	2.9	3.5	3.3	2.5	3.5	2.9
Copper	50	1,720	270	20.2	25.6	21.4	15.7	12.9	9.5
Iron	NP	NP	NP	8,690	9,450	8,470	7,490	9300	12,300
Lead	63	450	1,000	52.4	105	6.7	18.1	76.1	61
Magnesium	NP	NP	NP	31,000	30,500	29,900	79,600	5,540	8,560
Manganese	1,600	2,000	10,000	310	372	530	390	219	181
Mercury	0.18	0.73	2.8	0.062	0.14	< 0.0065	0.0093	0.05	0.035
Nickel	30	130	310	9.4	10.6	9	7.2	9.1	7.7
Potassium, Total	NP	NP	NP	1,340	1,670	1,330	1,250	785	873
Silver	2	8.3	1500	< 0.23	1.1	< 0.21	< 0.22	3.8	2.6
Sodium, Total	NP	NP	NP	240	306	125	302	249	332
Vanadium	NP	NP	NP	17.6	19.5	9.1	11.6	11.5	10.6
Zinc	109	2,480	10,000	99.6	151	68.4	110	101	78
Polychlorinated Biphenyl (PCB) (mg/kg)									
Aroclor 1248	0.1	3.2	1	0.16	< 0.037	< 0.047	< 0.046	< 0.049	< 0.051
Aroclor 1254	0.1	3.2	1	< 0.091	0.14	< 0.11	< 0.11	< 0.12	< 0.12
Pesticides (ug/kg)									
4,4'-DDD	3.3	14,000	92,000	< 18	< 17	< 6.4	< 33	2.6	< 3.4
4,4'-DDE	3.3	17,000	62,000	< 19	< 19	< 6.9	< 35	64	45
4,4'-DDT	3.3	136,000	47,000	< 21	24	< 7.7	< 39	130	94
Endrin Aldehyde	NP	NP	NP	< 23	< 23	< 8.4	< 43	5.7	< 4.5
Methoxychlor	NP	900,000	NP	< 19	< 18	< 6.7	< 34	3.4	3.7
Herbicides (ug/kg)									
No Detections									

Legend

<1	Parameter not detected above the method detection limit
<1	Indicates the method detection limit is greater than one or more applicable comparison criteria
1	Parameter reported at a concentration greater than 375-6 SCO - UNRESTRICTED
1	Parameter reported at a concentration greater than 375-6 SCO - PROTECTION OF GROUNDWATER
1	Parameter reported at a concentration greater than 375-6 SCO - PROT OF PUBLIC HEALTH - COMMERCIAL
1	Parameter reported above the laboratory method detection limit but below the applicable regulatory standard/criterion

Notes:
mg/Kg = miligrams per Kilogram
ug/Kg = micorgrams per Kilogram
NP = Not Promalgated

Table 2
Groundwater Analytical Summary
Site # 828107
Former RAECO Products Site
24 Spencer Street, Rochester

Lab Report No.:	**NYSDEC CLASS GA CRITERIA**	4801827151	4801827151	4801827151	4801827151	4801827151	4801827151
ID:		**MW-1D**	**MW-3D**	**MW-3DD**	**MW-4D**	**MW-4DD**	**MW-6D**
Date Collected:		**3/30/2021**	**3/30/2021**	**3/30/2021**	**3/29/2021**	**3/31/2021**	**3/30/2021**
Volatile Organic Compounds (VOC) (µg/L)							
1,1,1-Trichloroethane	**5**	< 160	< 3.3	< 0.82	**0.87**	< 0.82	< 0.82
1,1-Dichloroethane	**5**	**320**	< 1.5	< 0.38	**3.5**	< 0.38	< 0.38
2-Butanone (MEK)	**50**	< 260	< 5.3	< 1.3	< 1.3	**4**	< 1.3
Xylenes, Total	**5**	**1,700**	< 2.6	< 0.66	< 0.66	**0.97**	< 0.66
Acetone	**50**	< 600	< 12	< 3.0	< 3.0	**26**	**3**
Benzene	**1**	< 82	< 1.6	**0.49**	< 0.41	**0.59**	< 0.41
Chlorobenzene	**5**	< 150	**4.3**	< 0.75	< 0.75	< 0.75	< 0.75
Chloroethane	**5**	< 64	**4.4**	< 0.32	< 0.32	< 0.32	< 0.32
Chloroform	**7**	< 68	< 1.4	< 0.34	**0.34**	< 0.34	< 0.34
Chloromethane	**5**	< 70	< 1.4	< 0.35	< 0.35	< 0.35	< 0.35
cis-1,2-Dichloroethylene	**5**	**12,000**	< 3.2	< 0.81	**72**	< 0.81	< 0.81
Cyclohexane	**NP**	< 36	**10**	< 0.18	< 0.18	**0.53**	< 0.18
Tetrachloroethylene	**5**	< 72	< 1.4	< 0.36	**0.4**	< 0.36	< 0.36
Toluene	**5**	**2,100**	< 2.0	< 0.51	< 0.51	**0.61**	< 0.51
Trichloroethylene	**5**	< 92	< 1.8	< 0.46	**39**	< 0.46	< 0.46
Vinyl chloride	**2**	**2,200**	< 3.6	< 0.90	**48**	< 0.90	< 0.90

Legend

<1	Parameter not detected above the laboratory reporting limit
<1	Indicates the laboratory reporting limit is greater than NYSDEC CLASS GA CRITERIA
1	Parameter reported at a concentration greater than NYSDEC CLASS GA CRITERIA
1	Parameter reported above the laboratory reporting limit but below the NYSDEC CLASS GA CRITERIA

Notes:

ng/l = nanograms per liter

µg/l = micrograms per liter

NP = Not Promulgated

NA = Not Analyzed

Table 3
Emerging Contaminants Summary
Site # 828107
Former RAECO Products Site
24 Spencer Street, Rochester

Lab Report No.:	NYSDEC CLASS GA CRITERIA	4801827151	4801827151	4801827151	4801827151	4801827151	4801827151
ID:		**MW-1D**	**MW-3D**	**MW-3DD**	**MW-4D**	**MW-4DD**	**MW-6D**
Date Collected:		**3/30/2021**	**3/30/2021**	**3/30/2021**	**3/29/2021**	**3/31/2021**	**3/30/2021**
Per- and Polyfluorolkyl Substances (PFAS) (ng/L)							
Perfluorooctanoic acid(PFOA)	**6.7**	**0.72**	**0.55**	**1.3**	< 0.24	**0.73**	NA
Perfluorooctanesulfonic acid(PFOS)	**2.7**	**2.6**	< 0.48	**2.9**	< 0.48	< 0.45	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid(FtS 8:2)	**NP**	< 0.40	< 0.41	< 0.41	< 0.41	< 0.38	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid(FtS 6:2)	**NP**	< 2.2	< 2.2	< 2.2	< 2.2	< 2.1	NA
N-ethyl perfluorooctanesulfonamidoacetic acid(NEtFOSAA)	**NP**	< 1.1	< 1.1	< 1.2	< 1.2	< 1.1	NA
N-methyl perfluorooctanesulfonamidoacetic acid(NMeFOSAA)	**NP**	< 1.0	< 1.1	< 1.1	< 1.1	< 0.99	NA
Perfluorobutanesulfonic acid(PFBS)	**NP**	< 0.17	< 0.18	**0.24**	**1.5**	**3.7**	NA
Perfluorobutanoic acid(PFBA)	**NP**	< 2.1	**50**	**4.4**	**17**	**7.2**	NA
Perfluorodecanesulfonic acid(PFDS)	**NP**	< 0.28	< 0.28	< 0.29	< 0.29	< 0.26	NA
Perfluorodecanoic acid(PFDA)	**NP**	< 0.27	< 0.27	**0.91**	**0.29**	**0.99**	NA
Perfluorododecanoic acid(PFDoA)	**NP**	< 0.48	< 0.49	< 0.49	< 0.49	< 0.45	NA
Perfluoroheptanesulfonic acid(PFHpS)	**NP**	< 0.17	< 0.17	< 0.17	< 0.17	< 0.16	NA
Perfluoroheptanoic acid(PFHpA)	**NP**	**2.1**	**2.3**	**1.8**	**3.7**	**0.97**	NA
Perfluorohexanesulfonic acid(PFHxS)	**NP**	**1.2**	**0.67**	< 0.51	**1.6**	< 0.47	NA
Perfluorohexanoic acid(PFHxA)	**NP**	**3.5**	**5**	**1.6**	**6.8**	**3**	NA
Perfluorononanoic acid(PFNA)	**NP**	**5.8**	**3.7**	**2**	**6**	**3.1**	NA
Perfluoropentanoic acid(PFPeA)	**NP**	< 0.43	**3.8**	**2.5**	**10**	**0.61**	NA
Perfluorotetradecanoic acid(PFTA)	**NP**	< 0.64	< 0.65	< 0.65	< 0.65	< 0.60	NA
Perfluorotridecanoic acid(PFTrDA)	**NP**	< 1.1	< 1.1	< 1.2	< 1.2	< 1.1	NA
Perfluoroundecanoic acid(PFUnA)	**NP**	< 0.96	< 0.97	< 0.98	< 0.98	< 0.91	NA
Perfluroroctanesulfonamide(PFOSA)	**NP**	< 0.86	**1.1**	< 0.87	< 0.88	< 0.81	NA
Total PFAS	**NP**	15.92	67.12	17.65	46.89	20.3	NA
1,4-Dioxane (µg/L)							
1,4-Dioxane	**1**	**170**	**64**	**0.32**	**1.1**	< 0.11	NA

Legend

<1	Parameter not detected above the method detection limit
<1	Indicates the method detection limit is greater than one or more applicable comparison criteria
1	Parameter reported at a concentration greater than applicable regulatory standard/criterion
1	Parameter reported above the laboratory method detection limit but below the applicable regulatory standard/criterion

Notes:

ug/L = micrograms per liter
ng/L = nanograms per liter
NA = Sample was not tested for given compound
NP = Not promulgated

Table 4
Pilot Test Data
Site # 828107
Former RAECO Products Site
24 Spencer Street, Rochester

Constituent	Concentration (mg/m^3)	Estimated Air Flow Rate (CFM)	Conversion Factor	Recovery Rate (lbs/day)
HSVE-Shallow				
1,1,1-Trichloroethane	**0.41**	96.87	0.00009	0.00357
cis-1,2-Dichloroethylene	**0.99**	96.87	0.00009	0.00863
trans-1,2-Dichloroethylene	**0.31**	96.87	0.00009	0.00270
Trichloroethylene	**26**	96.87	0.00009	0.22668
			Total Recovery Rate (lbs/day):	0.24158
HSVE-Deep				
1,1,1-Trichloroethane	**0.0043**	42.08	0.00009	0.00002
1,3-Dichlorobenzene	**0.0065**	42.08	0.00009	0.00002
cis-1,2-Dichloroethylene	**0.036**	42.08	0.00009	0.00014
Dichlorodifluoromethane	**0.003**	42.08	0.00009	0.00001
Ethanol	**0.034**	42.08	0.00009	0.00013
m/p-Xylenes	**0.0027**	42.08	0.00009	0.00001
trans-1,2-Dichloroethylene	**0.0044**	42.08	0.00009	0.00002
Trichloroethylene	**0.23**	42.08	0.00009	0.00087
			Total Recovery Rate (lbs/day):	0.00122
SVE-1				
1,1,1-Trichloroethane	**0.43**	51.79	0.00009	0.00200
cis-1,2-Dichloroethylene	**0.72**	51.79	0.00009	0.00336
Trichloroethylene	**18**	51.79	0.00009	0.08390
			Total Recovery Rate (lbs/day):	0.08926

Notes:
mg/m3 = miligrams per cubic meter
ft^3/min = cubic feet per minute (CFM)
lbs/day = pounds per day
VOC = volatile organic compound

APPENDIX A
Record of Decision

Department of Environmental Conservation

Division of Environmental Remediation

Record of Decision

Former Raeco Products Site
State Superfund Project
Rochester (C), Monroe County, New York
Site Number 828107

March 2010

New York State Department of Environmental Conservation
DAVID A. PATERSON, *Governor* ALEXANDER B. GRANNIS, *Commissioner*

DECLARATION STATEMENT - RECORD OF DECISION

Former Raeco Products
State Superfund Project
Rochester (C), Monroe County, New York
Site No. 828107

Statement of Purpose and Basis

The Record of Decision (ROD) presents the selected remedy for the Former Raeco Products site, a Class 2 inactive hazardous waste disposal site. The selected remedial program was chosen in accordance with the New York State Environmental Conservation Law, 6 NYCRR Part 375, and is not inconsistent with the National Oil and Hazardous Substances Pollution Contingency Plan of March 8, 1990 (40CFR300), as amended.

This decision is based on the Administrative Record of the New York State Department of Environmental Conservation (the Department) for the Former Raeco Products site and the public's input to the Proposed Remedial Action Plan (PRAP) presented by the Department. A listing of the documents included as a part of the Administrative Record is included in Appendix B of the ROD.

Description of Selected Remedy

Based on the results of the remedial investigation and the feasibility study (RI/FS) for the Former Raeco Products site and the criteria identified for evaluation of alternatives, the Department has selected surface cleanup and/or a cover along with soil vapor extraction. The components of the remedy are as follows:

1. A remedial design program will be implemented to provide the details necessary for the construction, operation, maintenance, and monitoring of the remedial program.

2. Areas of surface contamination (top one foot of soil) will be addressed through either removal and/or clean soil backfill or the placement of a cover over the site (for the purposes of the cost estimate a one foot crushed stone cover has been assumed). Clean soil is soil that is tested and either meets the Division of Environmental Remediation's criteria for backfill or is consistent with local site background. If removal is to be performed the areas to be addressed will be based on results from additional soil samples. The determination of how to proceed (removal or cover) will be made early in design; additional site surface soil samples and background surface soil samples could be collected to support targeted removal or to place a cover over the site to prevent direct contact with surface contamination. If a cover is placed over the site it is anticipated it will be necessary to remove approximately one foot of soil adjacent to existing structures

prior to installation of the cover. If a cover is installed, a demarcation barrier will be in place over contaminated soil.

3. Installation of a soil vapor extraction (SVE) system to provide in-situ remediation of volatile organic compounds (VOCs) in the soil in the central part of the site. Approximately four SVE wells will be installed in the vadose zone and screened to a depth of approximately 20 feet. The air containing VOCs extracted from the SVE wells will be treated, as necessary, using activated carbon. If vinyl chloride is present at concentrations that will require treatment prior to discharge, the air will also be passed through a second unit for the treatment of vinyl chloride (e.g., catalytic oxidation or organic clay/permanganate units).

4. Installation of a vapor mitigation system in on-site Building A (as indicated in the body of this document, a recommendation has been made that the site property owner install a mitigation system in Building A).

5. The operation of the components of the remedy (SVE system) will continue until the remedial objectives have been achieved, or until the Department determines that continued operation is technically impracticable or not feasible.

6. To maximize the net environmental benefit, Green remediation and sustainability efforts are considered in the design and implementation of the remedy to the extent practicable, including:

   - using renewable energy sources
   - reducing green house gas emissions
   - encouraging low carbon technologies
   - foster green and healthy communities
   - conserve natural resources
   - design storm water management systems to recharge aquifers

7. Imposition of an institutional control in the form of an environmental easement for the controlled property that:
   (a) requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3).
   (b) land use is subject to local zoning laws, the remedy allows the use and development of the controlled property for commercial or industrial use.
   (c) restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the Department, NYSDOH or County DOH;
   (d) prohibits agriculture or vegetable gardens on the controlled property;
   (e) requires compliance with the Department approved Site Management Plan.

8. Since the remedy results in contamination remaining at the site that does not allow for unrestricted use, a Site Management Plan is required, which includes the following:

(a) a Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to assure the following institutional and/or engineering controls remain in place and effective:

Institutional Controls: The Environmental Easement discussed in Paragraph 6 above.

Engineering Controls: The cover discussed in Paragraph 2 and the SVE system discussed in Paragraph 3 above.

This plan includes, but may not be limited to:

(i) Soil Management Plan which details the provisions for management of future excavations in areas of remaining contamination;
(ii) descriptions of the provisions of the environmental easement including any land use and groundwater use restrictions;
(iii) provisions for the management and inspection of the identified engineering controls; and
(iv) the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls;

(b) a Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but not be limited to:

(i) monitoring of the vapor extraction system and groundwater to assess the performance and effectiveness of the remedy;
(ii) a schedule of monitoring and frequency of submittals to the Department;
(iii) provision to evaluate the potential for vapor intrusion for any future buildings developed on the site, including provision for mitigation of any impacts identified;
(iv) provision to evaluate the potential for soil vapor intrusion for existing buildings if building use changes significantly or if a vacant building become occupied.

(c) an Operation and Maintenance Plan to assure continued operation, maintenance, monitoring, inspection, and reporting of for any mechanical or physical components of the remedy. The plan includes, but is not limited to:

(i) compliance monitoring of treatment systems to assure proper O&M as well as providing the data for any necessary permit or permit equivalent reporting; and
(ii) providing the Department access to the site and O&M records.

New York State Department of Health Acceptance

The New York State Department of Health (NYSDOH) concurs that the remedy selected for this site is protective of human health.

Declaration

The selected remedy is protective of human health and the environment, complies with State and Federal requirements that are legally applicable or relevant and appropriate to the remedial action to the extent practicable, and is cost effective. This remedy utilizes permanent solutions and alternative treatment or resource recovery technologies, to the maximum extent practicable, and satisfies the preference for remedies that reduce toxicity, mobility, or volume as a principal element.

MAR 3 0 2010

Date

Dale A. Desnoyers, Director
Division of Environmental Remediation

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RECORD OF DECISION
Former Raeco Products
State Superfund Project
Rochester (C), Monroe County, New York
Site No. 828107
March 2010

SECTION 1: SUMMARY AND PURPOSE OF THE RECORD OF DECISION

The New York State Department of Environmental Conservation (the Department), in consultation with the New York State Department of Health (NYSDOH), has selected this remedy for the above referenced site. The disposal of hazardous waste at the site has resulted in threats to public health and the environment that are addressed by this remedy in this Record of Decision (ROD). The disposal of hazardous wastes at this site, as more fully described in Sections 5 of this document, have contaminated various environmental media. The remedy, discussed in detail in Section 8, is intended to attain the remedial action objectives identified for this site in Section 6 for the protection of public health and the environment. This ROD identifies the selected remedy, summarizes the other alternatives considered, and discusses the reasons for the selected remedy. The Department has selected a final remedy for the site after careful consideration of all comments received during the public comment period.

The New York State Inactive Hazardous Waste Disposal Site Remedial Program (also known as the State Superfund Program) is an enforcement program, the mission of which is to identify and characterize suspected inactive hazardous waste disposal sites and to investigate and remediate those sites found to pose a significant threat to public health and environment.

The Department has issued this ROD in accordance with the requirements of New York State Environmental Conservation Law and Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York, 6 NYCRR Part 375.

SECTION 2: SITE DESCRIPTION AND HISTORY

2.1: Location and Description

The site is located at 24 Spencer Street, City of Rochester, New York (see Figure 1). The Site is located within a heavily developed light industrial and commercial area northwest of downtown Rochester. The 3.4 acre property is bordered by an abandoned railroad right of way to the north; Spencer Street to the south; the Genesee River to the east; and, Cliff Street to the west. The property is zoned as C-2, "community center district", or as a commercial area. The property is currently being used to store equipment (i.e., dumpsters) and vehicles. The main site features at the site are 4 buildings; the subsurface foundation/basement of Building E is still present at the site. Part of one building (Building A, see Figure 4) has been used for office space by the occupant in the past; the other three buildings have been used for equipment storage and/or

equipment maintenance. It is unclear whether the site buildings are being used in a similar manner by the current owner.

The Site is relatively flat with an elevation of approximately 460 ft above mean sea level (amsl). The terrain dips slightly to the east/northeast across the site. The eastern edge of the site slopes to a cliff face that forms the Genesee River gorge. The surface water of the Genesee River is approximately 70 feet below the ground surface at the site. The site consists of a few feet to over 49 feet of overburden on top of bedrock. During the RI bedrock was identified from a few feet below the ground surface (bgs) at the eastern side of the site to depths exceeding 49 feet at the west/southwest portion of the Site (possibly associated with historic sewer line installation and associated rock removal that may have occurred); over most of the site bedrock was encountered between 10 to 20 feet below the ground surface. The overburden is comprised primarily of fill material including silty sand and gravel with some miscellaneous construction and demolition debris (brick, concrete, wood, and ash fragments were noted during previous subsurface investigations). Deeper overburden consists primarily of silty clays and silty fine sands. Gravelly sands and clays were also noted at some areas of the Site. A clay layer of varying thickness exists just above the bedrock surface (bedrock at the Site is classified as dolomite with frequent fractures).

Groundwater at the site is typically not observed in the overburden, with some exceptions including gravelly intervals (where depth to bedrock exceeded 20 feet bgs) and at the non-confining clay layer situated immediately above the bedrock. The depth to groundwater in three bedrock monitoring wells ranged from approximately 20 to 42 feet bgs. During the RI it was observed that the first significant water producing fractures were encountered at approximately 40 to 50 feet bgs. Locally, the shallow bedrock groundwater appears to have a source of recharge centrally located at the Site, with groundwater flowing radially from the central area of the site to the Genesee River and surrounding area. This trend is also apparent in deeper groundwater monitored at the Site, but deeper groundwater appears to have a steeper gradient of flow to the Genesee River to the east and a strong component of flow to the south/southeast (see Figures 2 and 3). Groundwater at the site has a strong vertically downward gradient toward the adjacent Genesee River, which is situated approximately 70 feet below the ground surface of the site.

2.2: Operational/Disposal History

From the 1930s through 1987, the Site was reportedly owned and operated by John H. Rae, Inc. (Raeco) as a bulk storage, blending, packaging and distribution facility for chemicals and petroleum products. Poor practices over the years resulted in extensive site contamination.

In 1995, the Raeco property was sold to P&P Properties, Inc. At that point the property was reportedly leased by a construction contractor, through the Spring 2009, who used the property to store and repair heavy construction equipment. The current owner (Dance Hall Entertainment, LLC) purchased the property in April 2009 and utilizes the site for equipment and vehicle storage.

2.3: Remedial History

The remedial program at this site is being funded by New York State under the State Superfund Program. On, or about July 1998 the Department first identified the site as a Potential (P) site. A "P" site is a temporary classification assigned to a site that had inadequate and/or insufficient data for inclusion in any of the other classifications in the Registry of Inactive Hazardous Waste Disposal Sites in New York. As a result of identified hazardous waste disposal, the Department listed the site as a Class 2 site in the Registry of Inactive Hazardous Waste Disposal Sites in New York in January 2001. A Class 2 site is a site where hazardous waste presents a significant threat to the public health or the environment and action is required.

The site has been the subject of several regulatory investigations and inspections. Below is a brief summary of the regulatory activities at the site:

- Dye testing was conducted by Monroe County Health Department (MCHD) in 1970 to investigate three (3) pipe outlets that discharged into the gorge;
- The Rochester Police Department observed waste chemicals at the property in June 1994;
- NYSDEC, the Monroe County Health Department (MCHD), the United States Environmental Protection Agency (USEPA), and the City of Rochester completed follow-up inspections of the Site in 1994, 1995, and 1996;
- USEPA removed 553 containers (drums and 5-gallon pails) from the Site in 1997;
- NYSDEC completed a Preliminary Site Investigation (PSI) in 2001.

SECTION 3: LAND USE

The Department may consider the current, intended, and reasonable anticipated future land use of the site and its surroundings when assessing the nature and extent of contamination. For this site alternatives that may restrict the use of the site to commercial criteria as described in Part 375-1.8 (g) are being evaluated in addition to unrestricted SCGs because the Former Raeco Products site was used as a commercial facility in the past, the site is presently zoned for commercial use, and the site is surrounded by other properties which are also zoned for commercial use. Therefore, the Department will evaluate the commercial SCGs found in Part 375-6.8 (b) in assessing the nature and extent of contamination.

A comparison of the appropriate SCGs for the identified land use against the unrestricted use SCGs for the site contaminants is included in the Tables for the media being evaluated in section 5.1.2.

SECTION 4: ENFORCEMENT STATUS

Potentially Responsible parties (PRPs) are those who may be legally liable for contamination at a site. This may include past or present owners and operators, waste generators, and haulers. The PRPs for this site include:

- John H. Rae, Jr. is a responsible party in that he owned the site at the time hazardous waste was disposed at the site;

- Dance Hall Entertainment, LLC is a responsible party as current owner.

The PRPs for the site declined to implement a remedial program when requested by the Department. After the remedy is selected, the PRPs will again be contacted to assume responsibility for the remedial program. If an agreement cannot be reached with the PRPs, the Department will evaluate the site for further action under the State Superfund. The PRPs are subject to legal actions by the state for recovery of all response costs the state has incurred.

SECTION 5: SITE CONTAMINATION

A remedial investigation has been conducted to determine the nature and extent of contamination and to evaluate the alternatives for addressing the significant threats to human health and the environment.

5.1: Summary of the Remedial Investigation

The purpose of the Remedial Investigation (RI) was to define the nature and extent of any contamination resulting from previous activities at the site. The RI was conducted between March 2005 and February 2007. The field activities and findings of the investigation are described in the RI Report.

The following general activities are conducted during an RI:

- Research of historical information,

- Soil borings and monitoring well installations,

- Sampling of waste, surface and subsurface soils, groundwater and soil vapor

- Sampling of surface water and sediment, groundwater,

- Ecological and Human Health Exposure Assessments.

5.1.1: Standards, Criteria, and Guidance (SCGs)

The remedy must conform with promulgated standards and criteria that are directly applicable, or that are relevant and appropriate. The selection of a remedy must also take into consideration guidance, as appropriate. Standards, Criteria and Guidance are hereafter called SCGs.

To determine whether the contaminants identified in various media are present at levels of concern, the data from the RI were compared to media specific SCGs. The Department has developed SCGs for groundwater, surface water, sediments, and surface and subsurface soil. The NYSDOH has developed SCGs for drinking water and soil vapor intrusion. The tables found in the following Sections list the applicable SCG in the footnotes. For a full listing of all SCGs see: http://www.dec.ny.gov/regulations/61794.html

Based on the RI results, in comparison to the SCGs and potential public health and environmental exposure routes, certain media and areas of the site require remediation. These are summarized in Section 5.1.2. More complete information can be found in the RI Report.

5.1.2: Nature and Extent of Contamination

This section describes the findings of the Remedial investigation. As described in the RI report, waste/ source materials were identified at the site and are impacting groundwater, soil, and soil vapor.

Waste/Source Areas

Source Areas are defined in 6 NYCRR Part 375-1.2 (au). Source areas are areas of concern at a site were substantial quantities of contaminants are found which can migrate and release significant levels of contaminants to another environmental medium. The source areas identified at the site includes the area in the middle of the property, near monitoring well 1D, and in the area between buildings A, B and D (approximate limits of AOCs 3, 4 and 5 on Figure 4). In this area of the site staining of soil has been seen; during the installation of the soils borings physical observations were made which included “dark staining”, “product saturated soil” and “free product.” Often these terms were used together to describe a soil sample that was clearly, visually contaminated. Also, a 0.07 - 0.08 foot (just under an inch) LNAPL layer was observed at MW-1D.

The source areas identified will be addressed in the remedy selection process.

This section describes the findings for all environmental media that were evaluated. As described in the RI report, groundwater, soil, surface water, sediment, and soil vapor intrusion samples were collected to characterize the nature and extent of contamination.

For each media, a table summarizes the findings of the investigation. The tables present the range of contamination found at the site in the media and compares the data with the applicable SCGs for the site. The contaminants are arranged into four categories; volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides/ polychlorinated

biphenyls (PCBs), and inorganics (metals). For comparison purposes the SCGs are provided for each medium that allows for unrestricted use. For soil, if applicable, the Restricted Use SCGs identified in Section 3 are also presented.

Groundwater

Groundwater samples were collected from shallow bedrock (in the range of approximately 20 to 40 feet below the ground surface) and deep bedrock (in the range of approximately 60 to 75 feet below the ground surface) monitoring wells. The samples were collected to assess groundwater conditions at the site (downgradient groundwater monitoring wells were not installed because the eastern edge of the site is at the Genesee River gorge with the Genesee River at approximately 70 feet below the site). The results indicate that contamination in shallow bedrock groundwater at the site exceeds the SCGs for volatile organic compounds (see Figure 5), as well as isolated exceedances for certain inorganics and semi-volatile organic compounds. There is significant VOC contamination in MW-1D, located near the center of the site as well as relatively high VOC concentrations south/southeast of the central area of the site; contamination at MW-4D, located along the eastern edge of the southern part of the site, is relatively high, but it is approximately two orders of magnitude less than what is present at MW-1D. There are slight exceedances of certain VOC groundwater standards near the west edge of the central part of the site, but no exceedances at the north end of the site. Contamination in the deep bedrock is limited to MW-1DD, in the central portion of the site near the source area.

[Notes: 1) LNAPL sample results are not included in this summary, 2) groundwater samples collected in February 2000, during the PSI, are included in this summary]

Table 1 - Groundwater

Detected Constituents	Concentration Range Detected (ppb)[a]	SCG[b] (ppb)	Frequency Exceeding SCG
VOCs			
Vinyl chloride	ND – 22000	2	10 / 19
Chloroethane	ND – 54	5	5 / 19
1,1-Dichloroethene	ND – 150	5	3 / 19
Acetone	ND – 980	50	1 / 19
1,1-Dichloroethane	ND – 1600	5	10/ 19
1,2-Dichloroethene	ND – 81,000	5	9 / 19
2-Butanone	ND - 480	50	1 / 19
1,1,1-Trichloroethane	ND – 530	5	2 / 19
Benzene	ND – 64	1	7 / 19
1,2-Dichloroethane	ND – 2	0.6	1 / 19
Trichloroethene	ND – 96	5	3 / 19
Toluene	ND - 8300	5	4 / 19
Ethylbenzene	ND - 840	5	5 / 19

Xylene	ND - 2700	5	6 / 19
1,2-Dichlorobenzene	ND – 9	3	2 / 19
Isopropylbenzene	ND – 15	5	1 / 19
SVOCs			
2-Methylphenol	ND - 11	1	3 / 19
4-Methylphenol	ND - 40	1	3 / 19
2,4-Dimethylphenol	ND – 3	1	2 / 19
Naphthalene	ND – 42	10	1 / 19
Benzo(a)anthracene	ND – 2	0.002	2 / 19
Chrysene	ND - 2	0.002	2 / 19
Bis(2-ethylhexyl)phthalate	ND - 220	5	2 / 19
Benzo(b)fluoranthene	ND – 3	0.002	2 / 19
Benzo(k)fluoranthene	ND – 2	0.002	1 / 19
Benzo(a)pyrene	ND – 2	0.002	2 / 19
Indeno(1,2,3-cd)pyrene	ND – 2	0.002	1 / 19
Butylbenzylphthalate	ND - 74	50	1 / 19
Metals			
Cadmium	ND – 6.9	5	1 / 19
Lead	ND - 207	25	3 / 19
Manganese	17.8 – 1310	300	4 / 19
Zinc	ND - 4030	2000	2 / 19

ND = not detected
a - ppb: parts per billion, which is equivalent to micrograms per liter, ug/L, in water.
b- SCG: Standard Criteria or Guidance - Ambient Water Quality Standards and Guidance Values (TOGs 1.1.1), 6 NYCRR Part 703, Surface water and Groundwater Quality Standards, and Part 5 of the New York State Sanitary Code (10 NYCRR Part 5).

The primary groundwater contaminants are VOCs, mainly trichloroethene and its breakdown products and 1,1,1-trichloroethane and its breakdown products. There are also a small number of SCG exceedances for certain SVOCs and metals. The presence of this groundwater contamination is associated with the poor handling practices at the former chemical re-packaging facility that operated at the site. As shown on Figure 5, the primary groundwater contamination (VOCs) is located on the central portion of the site (where most of the loading/unloading operations took place).

Based on the findings of the RI, the disposal of hazardous waste has resulted in the contamination of groundwater. The site contaminants that are considered to be the primary contaminants of concern which will drive the remediation of groundwater to be addressed by the remedy selection process are: vinyl chloride, chloroethane, 1,1-dichloroethene, 1,1-dichloroethane, 1,2-dichloroethene, 1,1,1-trichloroethane, benzene, trichloroethene, toluene, ethylbenzene, and xylene.

Soil

Surface and subsurface soil samples were collected at the site during the RI and the PSI. Data gathered during the RI built upon the data gathered during the PSI; as an example, surface soil samples were collected during the PSI, but not during the RI. During the RI a decision not to collect additional surface soil samples was made, in part, due to the obvious presence of oil and grease contamination at the surface (see photographs included in Appendix A of the FS Report). Surface soil samples were collected (during the PSI) from a depth of 0-2 inches to assess direct human exposure. Subsurface soil samples were collected from a depth of 1 foot to as deep as 40 feet to assess soil contamination. The results indicate that soils at the site exceed the unrestricted SCGs for volatile and semi-volatile organics, metals and pesticides (see Figures 8, 9 and 10). In addition to the analytical results, during the installation of the soils borings physical observations were made which included "dark staining", "product saturated soil" and "free product." Often these terms were used together to describe a soil sample that was clearly, visually contaminated. Also, a 0.07 - 0.08 foot (just under an inch) LNAPL layer was observed and sampled at MW-1D.

[Note: data from soil samples collected in 2000, during the PSI, along with data from the RI soil samples, are summarized in Table 2]

Table 2 - Soil

Detected Constituents	Concentration Range Detected	Unrestricted SCG[b] (ppm)	Frequency Exceeding Unrestricted SCG	Restricted SCG[c] (ppm)	Frequency Exceeding Restricted Commercial
SURFACE SOIL					
VOCs					
2-Butanone	1.9	0.12	1 / 4	500	0 / 4
SVOCs					
Benzo(a)anthracene	15	1	1 / 4	5.6	1 / 4
Benzo(a)pyrene	0.490 – 5.4	1	1 / 4	1	1 / 4
Benzo(b)fluoranthene	1.0 - 8.2	1	2 / 4	5.6	1 / 4
Chrysene	0.610 – 27	1	1 / 4	56	0 / 4
Pentachlorophenol	11	0.8	1 / 4	6.7	1 / 4
Metals					
Barium	80.1 – 976	350	1 / 4	400	1 / 4
Copper	24.7 – 92.4	50	1 / 4	270	0 / 4
Lead	77.9 – 2340	63	4 / 4	1,000	1 / 4
Mercury	0.031 – 1.2	0.18	1 / 4	2.8	0 / 4
Silver	3.5	2	1 / 4	1,500	0 / 4
Zinc	153 – 1630	109	4 / 4	10,000	0 / 4
Pesticides/PCBs					
4,4-DDD	0.16	0.0033	1 / 4	92	0 / 4

4,4-DDT	0.14	0.0033	1 / 4	47	0 / 4
Dieldrin	0.99	0.005	1 / 4	1.4	0 / 4
Endrin	0.12 – 0.380	0.014	3 / 4	89	0 / 4
SUBSURFACE SOIL					
VOCs					
Vinyl Chloride	0.002 – 4.4	0.02	6 / 105	13	0 / 105
Methylene Chloride	0.012 – 1.5	0.05	5 / 105	500	0 / 105
Acetone	0.007 – 44	0.05	24 / 105	500	0 / 105
1,1-Dichloroethane	0.002 – 4.5	0.27	3 / 105	240	0 / 105
2-Butanone	0.004 – 5.2	1.2	18 / 105	500	0 / 105
1,1,1-Trichloroethane	0.002 – 7.6	0.68	5 / 105	500	0 / 105
Trichloroethene	0.001 - 71	0.47	10 / 105	200	0 / 105
Benzene	0.0003 – 1.4	0.06	7 / 105	44	0 / 105
Tetrachloroethene	0.0003 – 18	1.3	4 / 105	150	0 / 105
Toluene	0.0005 – 1,000	0.7	13 / 105	500	2 / 105
Ethylbenzene	0.0003 – 130	1	10 / 105	390	0 / 105
Xylene (total)	0.0004 – 650	0.26	27 / 105	500	1 / 105
cis-1,2-Dichloroethene	0.00055 - 47	0.25	6 / 91	500	0 / 91
Trans-1,2-Dichloroethene	0.002 - 0.54	0.19	1 / 91	500	0 / 91
1,4-Dichlorobenzene	0.001 – 4.1	1.8	1 / 105	130	0 / 105
1,2-Dichlorobenzene	0.0004 - 95	1.1	4 / 105	500	0 / 105
SVOCs					
Naphthalene	0.041 – 13	12	1 / 105	500	0 / 105
Benzo(a)anthracene	0.043 – 28	1	29 / 105	5.6	5 / 105
Chrysene	0.041 – 36	1	31 / 105	56	0 / 105
Benzo(b)fluoranthene	0.21 - 20	1	31 / 105	5.6	6 / 105
Benzo(k)fluoranthene	0.04 - 30	0.8	24 / 105	56	0 / 105
Benzo(a)pyrene	0.045 – 29	1	26 / 105	1	26 / 105
Indeno(1,2,3-cd)pyrene	0.042 – 15	0.5	29 / 105	5.6	4 / 105
Dibenzo(a,h)anthracene	0.044 – 4.7	0.33	15 / 105	0.56	9 / 105
Metals					
Arsenic	ND – 88.4	13	7 / 105	16	3 / 105
Barium	10.5 – 2530	350	6 / 105	400	5 / 105
Beryllium	ND – 19.7	7.2	2 / 105	590	0 / 105
Cadmium	ND – 3.6	2.5	1 / 105	9.3	0 / 105
Chromium	4.2 – 40.8	30	3/105	1,500	0 / 105
Copper	4.7 – 824	50	28 / 105	270	4 / 105
Lead	3.6 – 3990	63	54 / 105	1,000	4 / 105
Manganese	99.5 - 2080	1600	3 / 105	10,000	0 / 105
Mercury	ND – 5.8	0.18	50 / 105	2.8	3 / 105
Nickel	1.8 – 150	30	2 / 105	310	0 / 105

Selenium	ND - 5.4	3.9	2 / 105	1,500	0 / 105
Silver	ND – 2.2	2	1 / 105	1,500	0 / 105
Zinc	5.1 - 806	109	38 / 105	10,000	0 / 105
Pesticides/PCBs					
4,4'-DDD	ND – 0.0055	0.0033	2 / 14	92	0 / 14
4,4'-DDT	ND – 0.064	0.0033	3 / 14	47	0 / 14
Dieldrin	ND – 0.019	0.005	6 / 14	1.4	0 / 14
Endrin	ND – 0.560	0.014	11 / 14	89	0 / 14

ND = not detected
a - ppm: parts per million, which is equivalent to milligrams per kilogram, mg/kg, in soil;
b - SCG: Part 375-6.8(a), Unrestricted Soil Cleanup Objectives.
c - SCG: Part 375-6.8(b), Restricted Commercial Soil Cleanup Objectives.

The primary soil contaminants are VOCs, SVOCs, and isolated elevated detections of lead and mercury associated with the poor handling practices at the former chemical re-packaging facility that operated at the site; the presence of SVOCs and metals in shallow soils may also be associated with historic fill at the site. As noted on Figure 8, the primary VOC soil contamination is located in the central portion of the site (where most of the loading/unloading operations took place). During the PSI and RI only three samples exceeded commercial SCOs for a VOC; there are numerous VOC exceedances of unrestricted SCOs (see Table 2 and Figure 8). As indicated on Figure 9, there is SVOC soil contamination above both unrestricted and commercial SCOs, spread across the site, while the lead and mercury soil contamination is found in different, discrete areas as shown on Figure 10.

Based on the findings of the Remedial Investigation, the disposal of hazardous waste has resulted in the contamination of soil. The site contaminants identified in soil which are considered to be the primary contaminants of concern, to be addressed by the remedy selection process are: trichloroethene and its breakdown products; 1,1,1-trichloroethane and its breakdown products; toluene; xylene; benzo(a)pyrene; and lead.

Surface Water

Surface water samples were collected in the Genesee River during the RI from upstream, adjacent to the site and downstream locations. The samples were collected to assess the surface water conditions near the site. The results indicate that contaminants in surface water near the site did not exceed the Department's SCGs.

No site-related surface water contamination of concern was identified during the RI. Therefore, no remedial alternatives need to be evaluated for surface water.

Sediments

Attempts were made to collect sediment samples at the same locations where surface water samples were collected in the Genesee River during the RI. However, after probing the bottom

of the River at several locations it was discovered that sediment was not present above bedrock in the river channel.

No site-related sediment contamination of concern was identified during the RI. Therefore, no remedial alternatives need to be evaluated for sediment.

Soil Vapor Intrusion

The evaluation of the potential for soil vapor intrusion resulting from the presence of site related soil or groundwater contamination was evaluated by the sampling of sub-slab soil vapor under structures, and indoor air inside structures. At this site, due to the presence of buildings in the impacted area, a full suite of samples were collected to evaluate whether soil vapor intrusion was occurring.

Soil vapor samples were collected from the sub-slab of one structure (Building A) located on the Former Raeco Products site. Building A was the only structure sampled because it is the only on-site building with office space; other on-site buildings are/were being used for storage or for vehicle maintenance. Indoor air and outdoor air samples were also collected at this time. The samples were collected to assess the potential for soil vapor intrusion. The results indicate cis-1,2-dichloroethene (cis-1,2-DCE), trichloroethylene (TCE), tetrachloroethene (PCE), 1,1,1-trichloroethane (1,1,1-TCA), ethanol, styrene, and 1,1-dichloroethane (1,1-DCA) were detected in on-site sub-slab vapor and on-site indoor air from the on-site building labeled as Building A.

The primary soil vapor contaminants are cis-1,2-DCE, TCE, and 1,1,1-TCA which are associated with the chemicals that were handled at the former chemical re-packaging facility. Soil vapor contamination is found under building A located on-site (see Figure 4). Soil vapor testing was not performed on adjacent, off-site properties because contamination originates at the site and moves east, to the Genesee River gorge. A recommendation has been made to the site property owner that mitigation is necessary for the on-site Building A.

Based on the findings of the Remedial Investigation, the disposal of hazardous waste has resulted in the contamination of soil vapor. The site contaminants that are considered to be the primary contaminants of concern are cis-1,2-DCE, TCE, and 1,1,1-TCA. As indicated above, the current owner has been notified of these results and it has been recommended that the current owner perform mitigation to address this situation.

5.2: Interim Remedial Measures

An interim remedial measure (IRM) is conducted at a site when a source of contamination or exposure pathway can be effectively addressed before issuance of the Record of Decision.

There were no IRMs performed at this site during the RI.

5.3: Summary of Human Exposure Pathways:

This section describes the current or potential human exposures (the way people may come in contact with contamination) that may result from the site contamination. A more detailed discussion of the human exposure pathways can be found in the RI report available at the document repository. An exposure pathway describes the means by which an individual may be exposed to contaminants originating from a site. An exposure pathway has five elements: [1] a contaminant source, [2] contaminant release and transport mechanisms, [3] a point of exposure, [4] a route of exposure, and [5] a receptor population.

Contaminant release and transport mechanisms carry contaminants from the source to a point where people may be exposed. The exposure point is a location where actual or potential human contact with a contaminated medium may occur. The route of exposure is the manner in which a contaminant actually enters or contacts the body (e.g., ingestion, inhalation, or direct contact). The receptor population is the people who are, or may be, exposed to contaminants at a point of exposure.

An exposure pathway is complete when all five elements of an exposure pathway exist. An exposure pathway is considered a potential pathway when one or more of the elements currently does not exist, but could in the future.

No complete exposure pathways exist at this time. People are not drinking the contaminated groundwater because the area is served by a public water supply that obtains its water from a different source. The potential exists for people to be exposed to site-related contaminants as follows:

- The potential for exposures associated with soil vapor intrusion has been investigated and it was determined that further action is required in the on-site building to minimize the potential for exposures related to soil vapor intrusion.

    - Contact with contaminated soil by the general public is unlikely because public access is limited, however there is a potential for trespassers to come into contact with contaminated surface soils. In addition, workers who dig or enter excavations on-site could potentially be exposed to contaminated soil through dermal contact and/or incidental ingestion.

5.4: Summary of Environmental Assessment

This section summarizes the assessment of existing and potential future environmental impacts presented by the site. Environmental impacts may include existing and potential future exposure pathways to fish and wildlife receptors, wetlands, groundwater resources, and surface water. The Fish and Wildlife Impact Analysis (FWIA), which is included in the RI report, presents a detailed discussion of the existing and potential impacts from the site poses to fish and wildlife receptors.

Contamination at the Site is related to historical releases to the soil from deteriorating drums and leaking storage tanks and drums. There is evidence of soil contamination on the Site, but habitat for endangered, threatened, or special concern species is not present on the Site. There are no ecological habitats on the Site, and the surrounding area is primarily commercial/industrial which is characterized as a terrestrial cultural (upland) community type. The Site is bordered on the east by the Genesee River gorge and forested areas are present within a half mile radius of the Site. Based on shallow soils samples collected at the Site during the PSI and the RI, VOCs, SVOCs, and metals exceeded Department SCOs. Since there are no ecological habitats on the Site, there are no direct exposure pathways from these soils to wildlife populations. Contaminated soil at the Site could be eroded during storm events and enter storm drains discharging to the Genesee River. However, no bottom/sediments/soil were observed during ERM's sampling of the river. Therefore, soils were not addressed further in the FWIA.

The only potential contaminant migration pathway identified for the Site is the potential for groundwater to discharge to surface water. Based on previous investigations, groundwater flows towards the Genesee River. The VOCs that were detected in the groundwater samples above surface water protection screening levels were not detected in the surface water samples. The two VOCs that were detected in the surface water samples were very low estimated values; toluene was reported below the screening level and no screening level was available for chloromethane. The following three metals were detected in both the groundwater and surface water samples above screening levels: aluminum, barium and iron. The concentrations of these three metals are similar in all three surface water samples (samples collected from upstream, adjacent to, and downstream of the site). Thus, the Site does not appear to be the source of the detections in the surface water.

Surface water resources at or near the site include the Genesee River. The Genesee River is located along the eastern side of the Site at the base of the Genesee River gorge. The Genesee River is classified as an Unconfined River. An Unconfined River is an aquatic community with a relatively large, quiet, base level section of streams with a very low gradient. As described above, no current or potential site-related surface water impacts have been identified.

The FWIA did not identify any current or potential impacts to ecological resources.

Generally, groundwater was not encountered in overburden at the site. However, some of the gravelly intervals and portions of the site where depths to bedrock exceeded 20 feet below the ground surface (bgs) were saturated above bedrock. The bedrock identified at the site is classified as dolomite and was observed to be fractured. The first significant water producing fractures were generally encountered at depths of approximately 40 to 50 feet bgs. At the site shallow groundwater appears to have a source of recharge centrally located at the site, which flows radially to the Genesee River and surrounding area. This trend is also apparent in deeper groundwater monitored at the site, but deeper groundwater appears to have a steeper gradient of flow to the Genesee River to the east and a strong component of flow to the south/southeast.

Site related contamination is impacting groundwater. The groundwater is not used as a source of potable water. Protection of the groundwater resource will be addressed in the remedy selection process.

SECTION 6: SUMMARY OF THE REMEDIATION OBJECTIVES

The objectives for the remedial program have been established through the remedy selection process stated in 6 NYCRR Part 375. The goal for the remedial program is to restore the site to pre-disposal conditions to the extent feasible. At a minimum, the remedy shall eliminate or mitigate all significant threats to public health and the environment presented by the contamination identified at the site through the proper application of scientific and engineering principles.

The remedial objectives for this site are:

Public Health Protection

Groundwater

- Prevent people from drinking groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with contaminated groundwater.
- Prevent inhalation of contaminants from groundwater.

Soil

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of contaminants volatilizing from the soil.

Soil Vapor

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into the indoor air of buildings at or near a site.

Environmental Protection

Groundwater

- Restore the groundwater aquifer to meet ambient groundwater quality criteria, to the extent feasible.

Soil

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

SECTION 7: SUMMARY OF THE EVALUATION OF ALTERNATIVES

To be selected the remedy must be protective of human health and the environment, be cost-effective, comply with other statutory requirements, and utilize permanent solutions, alternative technologies or resource recovery technologies to the maximum extent practicable. Potential remedial alternatives for the Site were identified, screened and evaluated in the feasibility study report which is available at the document repositories established for this site.

A summary of the remedial alternatives that were considered for this site is presented below. Cost information is presented in the form of present worth, which represents the amount of money invested in the current year that would be sufficient to cover all present and future costs associated with the alternative. This enables the costs of remedial alternatives to be compared on a common basis. As a convention, a time frame of 30 years is used to evaluate present worth costs for alternatives with an indefinite duration. This does not imply that operation, maintenance, or monitoring would cease after 30 years if remediation goals are not achieved.

7.1: Description of Remedial Alternatives

The following alternatives were considered to address the contaminated media identified at the site as described in Section 5:

Alternative 1: No Action

The No Action Alternative is evaluated as a procedural requirement and as a basis for comparison. This alternative leaves the site in its present condition and does not provide any additional protection to public health and the environment.

Alternative 2: Restoration to Pre-Disposal or Unrestricted Conditions

This alternative achieves all of the SCGs discussed in Section 5.1.1 and soil meets the unrestricted soil cleanup objectives listed in Part 375-6.8 (a). This alternative would include the demolition of the on-site buildings, excavation of the entire 3.4 acre site down to bedrock and site restoration. This alternative would remove the contaminated soil, preventing exposures and remove the source in the soil. This remedy could be designed in under a year, and once mobilized to the site implementation of the remedy would take approximately five months after the award of the contract.

Capital Cost:.....$ 28,900,000

Alternative 3: Asphalt Cover and Soil Vapor Extraction

This alternative achieves all of the SCGs discussed in Section 5.1.1 and soil meets the commercial soil clean objectives listed in Part 375-6.8 (b). This alternative would include an asphalt cover and soil vapor extraction. The asphalt cover would consist of approximately six inches of asphalt over approximately six inches of gravel and would be installed over exposed

soil on the entire site to prevent direct contact with the contaminated soil as well as reducing infiltration through contamination in the soil. A soil vapor extraction system would be installed to provide in-situ remediation of volatile organic compounds present in the central area of the site. Soil vapor extraction (SVE) is an in-situ technology used to treat volatile organic compounds (VOCs) in soil. The process physically removes contaminants from the soil by applying a vacuum to a SVE well that has been installed into the vadose zone (the area below the ground but above the water table). The vacuum draws air through the soil matrix which carries the VOCs from the soil to the SVE well. The air extracted from the SVE wells is then run through an activated carbon treatment canister (the vapor may also be passed through a second unit, such as a catalytic oxidation unit, for treatment of vinyl chloride) to remove the VOCs before the air is discharged to the atmosphere. This remedy could be designed in under a year, and once mobilized to the site construction of the components of the remedy would take approximately three months. It is estimated that the SVE system would operate for approximately five years in order to achieve the remedial goals.

This alternative would also include post-remediation groundwater monitoring, institutional controls to prohibit the use of groundwater as a potable water source, and would require compliance with a Department approved Site Management Plan.

At this site approximately four SVE wells would be installed in the vadose zone and screened to a depth of approximately 20 feet below the ground. The air containing VOCs extracted from the SVE wells would be treated, as necessary, using activated carbon (the vapor may also be passed through a second unit, such as a catalytic oxidation unit, for treatment of vinyl chloride).

Present Worth:.....$1,570,000
Capital Cost:.....$882,000
Annual Costs (average):..... $44,800 (30 years)

Alternative 4: Surface Cleanup/Cover and Soil Vapor Extraction

This alternative achieves all of the SCGs discussed in Section 5.1.1 and soil meets the commercial soil clean objectives listed in Part 375-6.8 (b). This alternative would include addressing the soil contamination near the surface (top one foot) in addition to soil vapor extraction. Areas of obvious surface contamination would be addressed through either surface cleanup and clean backfill or the placement of a cover over the site (for purposes of the cost estimate a crushed stone cover is assumed). The determination of how to proceed would be made early in design; additional site surface soil samples and background surface soil samples could be collected to determine whether minimal surface removal is appropriate or whether a cover should be placed over the site to prevent direct contact with surface contamination.

In addition, a soil vapor extraction system would be installed to provide in-situ remediation of volatile organic compounds present in the central area of the site. Soil vapor extraction (SVE) is an in-situ technology used to treat volatile organic compounds (VOCs) in soil. The process physically removes contaminants from the soil by applying a vacuum to a SVE well that has been installed into the vadose zone (the area below the ground but above the water table). The

vacuum draws air through the soil matrix which carries the VOCs from the soil to the SVE well. The air extracted from the SVE wells is then run through an activated carbon treatment canister (the vapor may also be passed through a second unit, such as a catalytic oxidation unit, for treatment of vinyl chloride) to remove the VOCs before the air is discharged to the atmosphere.

This remedy could be designed in under a year, and once mobilized to the site construction of the components of the remedy would take approximately three months. It is estimated that the SVE system would operate for approximately five years in order to achieve the remedial goals.

This alternative would be used to reduce contamination in the soil via the SVE system, thus reducing the source present in the soil, as well as minimizing potential exposures through the implementation of the surface cleanup and/or covering of the site.

This alternative would also include post-remediation groundwater monitoring (for approximately 5 years), institutional controls to prohibit the use of groundwater as a potable water source, and would require compliance with a Department approved Site Management Plan. The cost estimate for this alternative includes five years of annual costs, compared to 30 years for most of the other alternatives. The difference in the durations is due to differences in site management for the alternatives; this site management timeframe difference is associated with the longer maintenance associated with an asphalt cover (which is not included for surface cleanup and/or a crushed stone cover) and/or a longer groundwater monitoring timeframe.

At this site approximately four SVE wells would be installed in the vadose zone and screened to a depth of approximately 20 feet below the ground. The air containing VOCs extracted from the SVE wells would be treated, as necessary, using activated carbon (the vapor may also be passed through a second unit, such as a catalytic oxidation unit, for treatment of vinyl chloride).

Present Worth:.....$1,220,000
Capital Cost:.....$870,000
Annual Costs (average):..... $79,900 (5 years)

Alternative 5: Asphalt Cover, Soil Vapor Extraction, and Excavation of Soil Contaminated with Free Product

This alternative achieves all of the SCGs discussed in Section 5.1.1 and soil meets the commercial soil clean objectives listed in Part 375-6.8 (b). This alternative would include an asphalt cover, soil vapor extraction and excavation and off-site disposal of soil containing free product as observed in subsurface soil samples collected during site investigations (Preliminary Site Investigation and Remedial Investigation). This alternative would also include post-remediation groundwater monitoring (for approximately 5 years), institutional controls to prohibit the use of groundwater as a potable water source, and would require compliance with a Department approved Site Management Plan. This alternative would be used to reduce contamination in the soil (SVE, and soil excavation and off-site disposal), as well as minimizing potential exposures through the placement of a cover over the site. This remedy could be designed in under a year, and once mobilized to the site implementation of the remedy would

take approximately five months. It is anticipated that the SVE system would operate for approximately three years in order to achieve the remedial goals.

The asphalt cover would consist of approximately six inches of asphalt over approximately six inches of gravel and would be installed over the entire site to prevent direct contact with the contaminated soil as well as reducing infiltration through residual contamination in the soil. A soil vapor extraction system would be installed to provide in-situ remediation of volatile organic compounds present in the central area of the site. Soil vapor extraction (SVE) is an in-situ technology used to treat volatile organic compounds (VOCs) in soil. The process physically removes contaminants from the soil by applying a vacuum to a SVE well that has been installed into the vadose zone (the area below the ground but above the water table). The vacuum draws air through the soil matrix which carries the VOCs from the soil to the SVE well. The air extracted from the SVE wells is then run through an activated carbon treatment canister (the vapor may also be passed through a second unit, such as a catalytic oxidation unit, for treatment of vinyl chloride) to remove the VOCs before the air is discharged to the atmosphere. This alternative would also include the excavation and off-site disposal of approximately 2900 cubic yards of soil observed to have had free product in subsurface soils during past investigations; removal of the soil containing free product would also remove some of the soil impacted with VOCs.

At this site approximately four SVE wells would be installed in the vadose zone and screened to a depth of approximately 20 feet below the ground. The air containing VOCs extracted from the SVE wells would be treated, as necessary, using activated carbon (the vapor may also be passed through a second unit, such as a catalytic oxidation unit, for treatment of vinyl chloride).

Present Worth:.....*$2,520,000*
Capital Cost:.....*$1,880,000*
Annual Cost (average):.....*$41,700 (30 years)*

Alternative 6: Asphalt Cover, and Excavation of Soil Contaminated with VOCs and Free Product

This alternative achieves all of the SCGs discussed in Section 5.1.1 and soil meets the commercial soil clean objectives listed in Part 375-6.8 (b). This alternative would include an asphalt cover, and excavation and off-site disposal of soil containing VOC contamination exceeding the commercial soil cleanup objectives, as well as excavation and off-site disposal of soil containing free product as observed in subsurface soil samples collected during site investigations (Preliminary Site Investigation and Remedial Investigation). This alternative would also include post-remediation groundwater monitoring (for approximately 5 years), institutional controls to prohibit the use of groundwater as a potable water source, and would require compliance with a Department approved Site Management Plan. This alternative would be used to reduce contamination in the soil (soil excavation and off-site disposal), as well as minimizing potential exposures through the placement of a cover over the site. This remedy could be designed in under a year, and once mobilized to the site implementation of the remedy would take approximately five months.

The asphalt cover would consist of approximately six inches of asphalt over approximately six inches of gravel and would be installed over the entire site to prevent direct contact with the contaminated soil as well as reducing infiltration through residual contamination in the soil. This alternative would also include the excavation and off-site disposal of approximately 6000 cubic yards of soil containing VOC contamination above the soil cleanup objectives and soil observed to have had free product in subsurface soils during past investigations.

Present Worth:.....*$3,030,000*
Capital Cost:.....*$2,520,000*
Annual Costs:..... *$33,500 (30 years)*

Alternative 7: Asphalt Cover and Long Term Groundwater Monitoring

This alternative achieves all of the SCGs discussed in Section 5.1.1 and soil meets the commercial soil clean objectives listed in Part 375-6.8 (b). This alternative would include an asphalt cover and an estimated 30 years of long term monitoring of the groundwater to evaluate contaminant migration patterns and concentration trends over time. This alternative would also include institutional controls to prohibit the use of groundwater as a potable water source and would require compliance with a Department approved Site Management Plan. This alternative would be used to monitor the groundwater contamination and minimize potential exposures through the placement of a cover over the site. This remedy could be designed in under a year, and once mobilized to the site implementation of the remedy would take approximately three months.

The asphalt cover would consist of approximately six inches of asphalt over approximately six inches of gravel and would be installed over the entire site to prevent direct contact with the contaminated soil as well as reducing infiltration through the contaminated soil.

Present Worth:.....*$1,510,000*
Capital Cost:.....*$685,000*
Annual Costs:..... *$53,700 (30 years)*

Alternative 8: Asphalt Cover, Dual Phase Extraction and Long Term Groundwater Monitoring

This alternative achieves all of the SCGs discussed in Section 5.1.1 and soil meets the commercial soil clean objectives listed in Part 375-6.8 (b). This alternative would include an asphalt cover, dual phase extraction and long term monitoring of the groundwater to monitor contaminant migration patterns and concentration trends over time. This alternative would also include institutional controls to prohibit the use of groundwater as a potable water source and would require compliance with a Department approved Site Management Plan. This alternative would be used to reduce contamination in the soil via dual phase extraction, thus reducing the source present in the soil, as well as minimizing potential exposures through the placement of a

cover over the site. This remedy could be designed in under a year, and once mobilized to the site construction of the components of the remedy would take approximately five months. It is estimated that the dual phase extraction system would operate for approximately four years in order to achieve the remedial goals.

The asphalt cover would consist of approximately six inches of asphalt over approximately six inches of gravel and would be installed over the entire site to prevent direct contact with the contaminated soil as well as reducing infiltration through residual contamination in the soil.

For this alternative an SVE system would be coupled with groundwater extraction (commonly called dual phase extraction) to remove and treat contaminated groundwater as well as to expose the vadose zone in the capillary fringe by groundwater pumping while simultaneously volatilizing the residual contamination in the vadose zone with SVE.

Soil vapor extraction (SVE) is an in-situ technology used to treat volatile organic compounds (VOCs) in soil. The process physically removes contaminants from the soil by applying a vacuum to a SVE well that has been installed into the vadose zone (the area below the ground but above the water table). The vacuum draws air through the soil matrix which carries the VOCs from the soil to the SVE well. The air containing VOCs extracted from the SVE wells would be treated, as necessary, using activated carbon (the vapor may also be passed through a second unit, such as a catalytic oxidation unit, for treatment of vinyl chloride).

Present Worth:.....$2,000,000
Capital Cost:.....$944,000
Annual Costs (average):..... $68,700 (30 years)

7.2 Evaluation of Remedial Alternatives

The criteria to which potential remedial alternatives are compared are defined in 6 NYCRR Part 375, which sets forth the requirements for the remediation of inactive hazardous waste disposal sites in New York. A detailed discussion of the evaluation criteria and comparative analysis is included in feasibility study report.

The first two evaluation criteria are termed “threshold criteria” and must be satisfied in order for an alternative to be considered for selection.

1. Protection of Human Health and the Environment. This criterion is an overall evaluation of each alternative’s ability to protect public health and the environment.

2. Compliance with New York State Standards, Criteria, and Guidance (SCGs). Compliance with SCGs addresses whether a remedy will meet environmental laws, regulations, and other standards and criteria. In addition, this criterion includes the consideration of guidance which the Department has determined to be applicable on a case-specific basis.

The next six "primary balancing criteria" are used to compare the positive and negative aspects of each of the remedial strategies.

3. Long-term Effectiveness and Permanence. This criterion evaluates the long-term effectiveness of the remedial alternatives after implementation. If wastes or treated residuals remain on-site after the selected remedy has been implemented, the following items are evaluated: 1) the magnitude of the remaining risks, 2) the adequacy of the engineering and/or institutional controls intended to limit the risk, and 3) the reliability of these controls.

4. Reduction of Toxicity, Mobility or Volume. Preference is given to alternatives that permanently and significantly reduce the toxicity, mobility or volume of the wastes at the site.

5. Short-term Impacts and Effectiveness. The potential short-term adverse impacts of the remedial action upon the community, the workers, and the environment during the construction and/or implementation are evaluated. The length of time needed to achieve the remedial objectives is also estimated and compared against the other alternatives.

6. Implementability. The technical and administrative feasibility of implementing each alternative are evaluated. Technical feasibility includes the difficulties associated with the construction of the remedy and the ability to monitor its effectiveness. For administrative feasibility, the availability of the necessary personnel and materials is evaluated along with potential difficulties in obtaining specific operating approvals, access for construction, institutional controls, and so forth.

7. Cost-Effectiveness. Capital costs and annual operation, maintenance, and monitoring costs are estimated for each alternative and compared on a present worth basis. Although cost-effectiveness is the last balancing criterion evaluated, where two or more alternatives have met the requirements of the other criteria, it can be used as the basis for the final decision. The costs for each alternative are presented in the Remedial Alternatives Cost Table {#.}

Table 3
Remedial Alternative Costs

Remedial Alternative	Capital Cost ($)	Annual Costs ($)	Total Present Worth ($)
1. No Action	0	0	0
2. Restoration to Pre-Disposal/Unrestricted Conditions	28,900,000	0	28,900,000
3. Asphalt Cover and Soil Vapor Extraction (SVE)	882,000	44,800	1,570,000

4. Surface Cleanup/Cover and SVE	870,000	79,900	1,220,000
5. Asphalt Cover, SVE and Excavation of Soil Contaminated with Free Product	1,880,000	41,700	2,520,000
6. Asphalt Cover and Excavation of Soil Contaminated with VOCs & Free Product	2,520,000	33,500	3,030,000
7. Asphalt Cover and Long Term Groundwater Monitoring	685,000	53,700	1,510,000
8. Asphalt Cover, Dual Phase Extraction (DPE) and Long Term Groundwater Monitoring	944,000	68,700	2,000,000

8. Land Use. When cleanup to pre-disposal conditions is determined to be infeasible, the Department may consider the current, intended, and reasonable anticipated future land use of the site and its surroundings in the selection of the soil remedy.

The final criterion, Community Acceptance, is considered a "modifying criterion" and is taken into account after evaluating those above. It is evaluated after public comments on the Proposed Remedial Action Plan have been received.

9. Community Acceptance. Concerns of the community regarding the investigation, the evaluation of alternatives, and the PRAP have been evaluated. The responsiveness summary (Appendix A) presents the public comments received and the manner in which the Department addressed the concerns raised. In general, the public comments received were supportive of the selected remedy.

SECTION 8: SUMMARY OF THE SELECTED REMEDY

Based on the Administrative Record (Appendix B) and the discussion presented below, the Department has selected Alternative 4, Surface Cleanup/Cover and Soil Vapor Extraction, as the remedy for this site. The elements of this remedy are described at the end of this section.

8.1 **Basis for Selection**

The selected remedy is based on the results of the RI and the evaluation of alternatives.

Alternative 4 is selected because, as described below, it satisfies the threshold criteria and provides the best balance of the balancing criterion described in Section 7.2. It will achieve the remediation goals for the site by treating soil contamination in-place by implementing SVE, thus improving the groundwater quality over time, as well as minimizing the potential for contact with contamination present in the surface soil by performing targeted cleanup of surface soils and/or installing a cover over the site. Alternative 4 will address the contaminant source area, to the extent practicable, as well as be protective of public health and the environment.

Alternative 1 (No Action) does not provide any protection to public health and the environment and will not be evaluated further. Alternative 2 (Unrestricted), by removing all soil contaminated above the "Unrestricted" soil cleanup objective, meets the threshold criteria. Alternatives 3 (asphalt cover/SVE), 4 (surface cleanup &/or cover/SVE), 5 (asphalt cover/SVE/excavate free product soil), 6 (asphalt cover/excavate VOC and free product impacted soil), 7 (asphalt cover/long-term monitoring), and 8 (asphalt cover/DPE/LTM) also comply with this criteria but to a lesser degree or with lower certainty. Because Alternatives 2, 3, 4, 5, 6, 7 and 8 satisfy the threshold criteria, the remaining criteria are particularly important in selecting a final remedy for the site.

Alternatives 2 through 8 all have short-term impacts which could be controlled, however, Alternative 7 would have the smallest impact. The time to implement the remedy is the shortest for Alternative 7 and longer for Alternatives 6 and 2, respectively. Alternatives 3, 4, 5 and 8 would take longer than the other alternatives to implement the remedy.

Long-term effectiveness is best accomplished by those alternatives involving excavation of contaminated soils (Alternatives 2, 5 and 6). Alternative 2 results in removal of almost all of the chemical contamination at the site and removes the need for property use restrictions and long-term monitoring (the only alternative that would not require use restrictions and monitoring). Alternatives 5 and 6 would result in the removal of VOC contaminated soil and VOC/free product contaminated soil, respectively, but they would also require an environmental easement and post-remediation monitoring. For Alternatives 3, 4, 5, and 8, the operation of the SVE system (or DPE system for alternative 8) would effectively remove and treat a significant amount of the VOC contamination, and for these four alternatives the timeframe for the active part of site management (e.g., operating SVE system, collecting groundwater samples) is five years or less. Alternative 7 would not include active remediation of the source area and would provide the least long-term effectiveness of the alternatives (other than Alternative 1).

Alternative 7 would control potential exposures with containment and institutional controls only and would not reduce the toxicity, mobility or volume of contaminants remaining. Alternatives 2, 5 and 6 all include excavation and off-site disposal to varying degrees, which reduces the toxicity, mobility and volume of on-site waste by transferring the material to an approved off-site location. However, depending on the disposal facility, the volume of the material would not

be reduced. Alternatives 3, 4, 5 and 8 would permanently reduce the toxicity, mobility and volume of contaminants by removing and treating the contaminants from the subsurface.

Alternatives 3, 4, 7, and 8 are favorable in that they are readily implementable. Alternatives 2, 5, and 6 are also implementable, but would involve increased truck traffic on local roads for several weeks to several months, with Alternative 2 taking the longest time to complete the excavation of soil.

There is a relatively significant difference in costs between some of the alternatives. Alternative 7 has a relatively low cost, but the contaminated soil would not be addressed other than by installing a cover and the use of institutional controls. With its large volume of soil to be handled, Alternative 2 (excavation to unrestricted soil cleanup objectives and off-site disposal) would have the highest present worth cost. Alternatives 5 and 6 include excavation and off-site disposal of significant volumes of soil, and thus the costs are relatively high. Alternatives 3, 4 and 8 would provide similar levels of protection, but Alternative 4 would be the least expensive of those three alternatives.

The anticipated use of the site is commercial. There would be residual contamination with Alternatives 3 through 8. Groundwater contamination is not migrating off-site; once the source area is addressed the presence of residual waste will be controllable with implementation of a Site Management Plan.

The estimated present worth cost to implement the remedy is $1,220,000. The cost to construct the remedy is estimated to be $870,000 and the estimated average annual cost for five years is $79,900.

8.2 **Elements of the Selected Remedy**

The elements of the selected restricted use remedy are as follows:

1. A remedial design program will be implemented to provide the details necessary for the construction, operation, maintenance, and monitoring of the remedial program.

2. Areas of surface contamination (top one foot of soil) will be addressed through either removal and/or clean soil backfill or the placement of a cover over the site (for the purposes of the cost estimate a one foot crushed stone cover has been assumed). Clean soil is soil that is tested and either meets the Division of Environmental Remediation's criteria for backfill or is consistent with local site background. If removal is to be performed the areas to be addressed will be based on results from additional soil samples. The determination of how to proceed (removal or cover) will be made early in design; additional site surface soil samples and background surface soil samples could be collected to support targeted removal or to place a cover over the site to prevent direct contact with surface contamination. If a cover is placed over the site it is anticipated it will be necessary to remove approximately one foot of soil adjacent to existing structures

prior to installation of the cover. If a cover is installed, a demarcation barrier will be in place over contaminated soil.

3. Installation of a soil vapor extraction (SVE) system to provide in-situ remediation of volatile organic compounds (VOCs) in the soil in the central part of the site. Approximately four SVE wells will be installed in the vadose zone and screened to a depth of approximately 20 feet. The air containing VOCs extracted from the SVE wells will be treated, as necessary, using activated carbon. If vinyl chloride is present at concentrations that will require treatment prior to discharge, the air will also be passed through a second unit for the treatment of vinyl chloride (e.g., catalytic oxidation or organic clay/permanganate units).

4. Installation of a vapor mitigation system in on-site Building A (as indicated in the body of this document, a recommendation has been made that the site property owner install a mitigation system in Building A).

5. The operation of the components of the remedy (SVE system) will continue until the remedial objectives have been achieved, or until the Department determines that continued operation is technically impracticable or not feasible.

6. To maximize the net environmental benefit, Green remediation and sustainability efforts are considered in the design and implementation of the remedy to the extent practicable, including;
   - using renewable energy sources
   - reducing green house gas emissions
   - encouraging low carbon technologies
   - foster green and healthy communities
   - conserve natural resources
   - design storm water management systems to recharge aquifers

7. Imposition of an institutional control in the form of an environmental easement for the controlled property that:
   (a) requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3).
   (b) land use is subject to local zoning laws, the remedy allows the use and development of the controlled property for commercial or industrial use.
   (c) restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the Department, NYSDOH or County DOH;
   (d) prohibits agriculture or vegetable gardens on the controlled property;
   (e) requires compliance with the Department approved Site Management Plan.

8. Since the remedy results in contamination remaining at the site that does not allow for unrestricted use, a Site Management Plan is required, which includes the following:

(a) an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to assure the following institutional and/or engineering controls remain in place and effective:

Institutional Controls: The Environmental Easement discussed in Paragraph 6 above.

Engineering Controls: The cover discussed in Paragraph 2 and the SVE system discussed in Paragraph 3 above.

This plan includes, but may not be limited to:

(i) Soil Management Plan which details the provisions for management of future excavations in areas of remaining contamination;
(ii) descriptions of the provisions of the environmental easement including any land use and groundwater use restrictions;
(iii) provisions for the management and inspection of the identified engineering controls; and
(iv) the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls;

(b) a Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but not be limited to:

(i) monitoring of the vapor extraction system and groundwater to assess the performance and effectiveness of the remedy;
(ii) a schedule of monitoring and frequency of submittals to the Department;
(iii) provision to evaluate the potential for vapor intrusion for any future buildings developed on the site, including provision for mitigation of any impacts identified;
(iv) provision to evaluate the potential for soil vapor intrusion for existing buildings if building use changes significantly or if a vacant building become occupied.

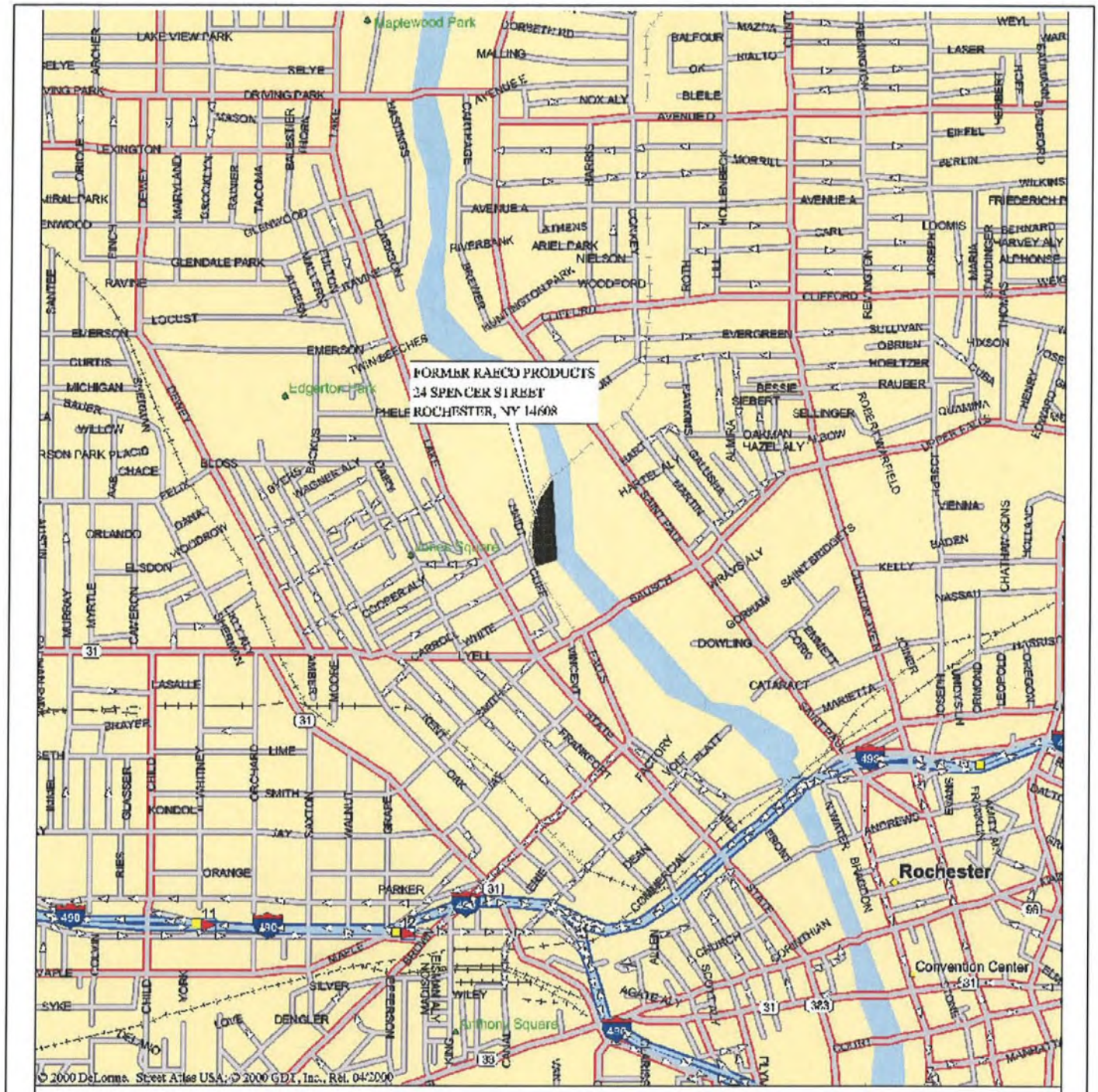
(c) an Operation and Maintenance Plan to assure continued operation, maintenance, monitoring, inspection, and reporting of for any mechanical or physical components of the remedy. The plan includes, but is not limited to:

(i) compliance monitoring of treatment systems to assure proper O&M as well as providing the data for any necessary permit or permit equivalent reporting; and
(ii) providing the Department access to the site and O&M records.

SECTION 9: HIGHLIGHTS OF COMMUNITY PARTICIPATION

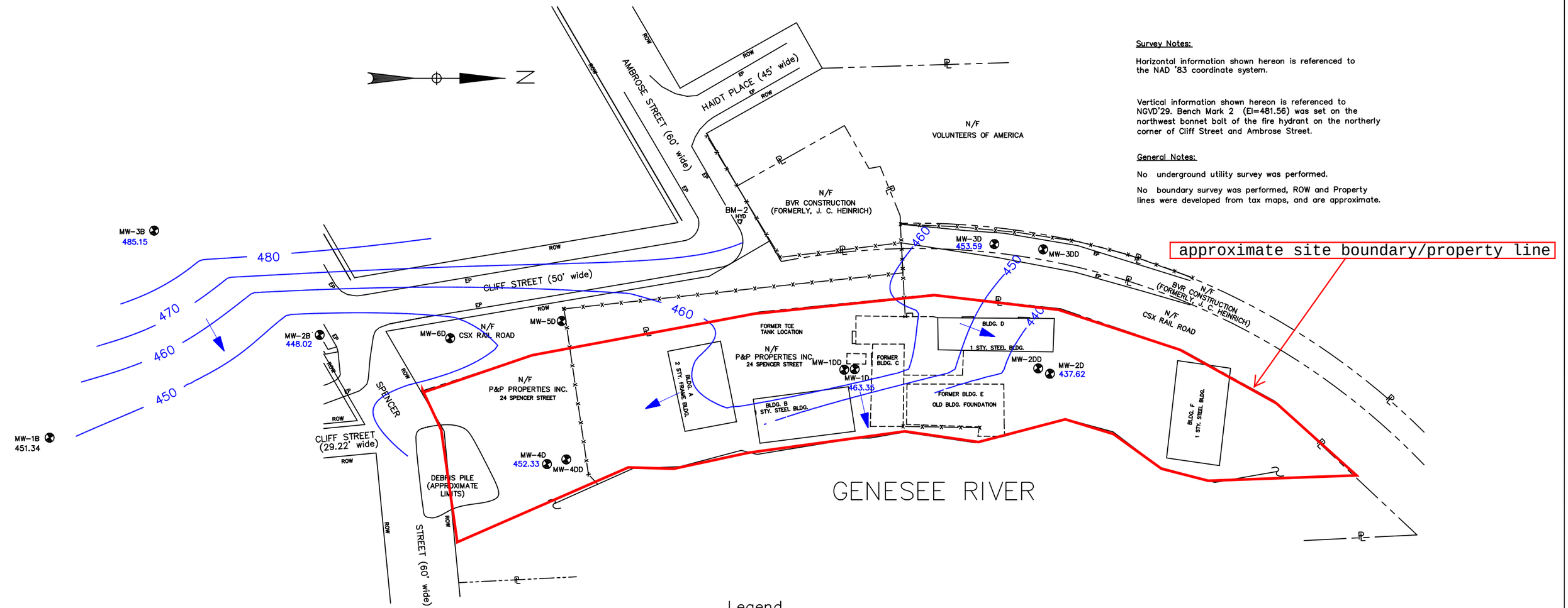
As part of the remedial investigation process, a number of Citizen Participation activities were undertaken to inform and educate the public about conditions at the site and the potential remedial alternatives. The following public participation activities were conducted for the site:

- Repositories for documents pertaining to the site were established.
- A public contact list, which included nearby property owners, elected officials, local media and other interested parties, was established.
- A Fact Sheet was sent to the public contact list in April 2005 to announce the initiation of the Remedial Investigation.
- A Fact Sheet was sent to the public contact list in February 2010 to announce the availability of the PRAP and to announce the March 16, 2010 public meeting.
- A public meeting was held on March 16, 2010 to present and receive comment on the PRAP.
- A responsiveness summary (Appendix A) was prepared to address the comments received during the public comment period for the PRAP.



HDR	SITE LOCATION MAP	Job No.	Date	Figure
		107489	09-24-09	2-1

FIGURE 1



Survey Notes:

Horizontal information shown hereon is referenced to the NAD '83 coordinate system.

Vertical information shown hereon is referenced to NGVD'29. Bench Mark 2 (El=481.56) was set on the northwest bonnet bolt of the fire hydrant on the northerly corner of Cliff Street and Ambrose Street.

General Notes:

No underground utility survey was performed.

No boundary survey was performed, ROW and Property lines were developed from tax maps, and are approximate.

SOURCE: LARSEN ENGINEERS
700 WEST METRO PARK, ROCHESTER, NEW YORK 14623-2678
(716)272-7310 FAX (716)272-0159
SAMPLE POINT LOCATION MAP, FILE:5388-1.DWG, PROJECT #29-4-5388
PROJECT #29-4-5388, DATED 12/29/99

Legend

- Monitoring Well
- N/F Now or Formerly
- 460 Groundwater Level Contour
- 452.33 Groundwater Elevation
- Groundwater Flow

30 0 30 60 120
SCALE IN FEET

FIGURE 2

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

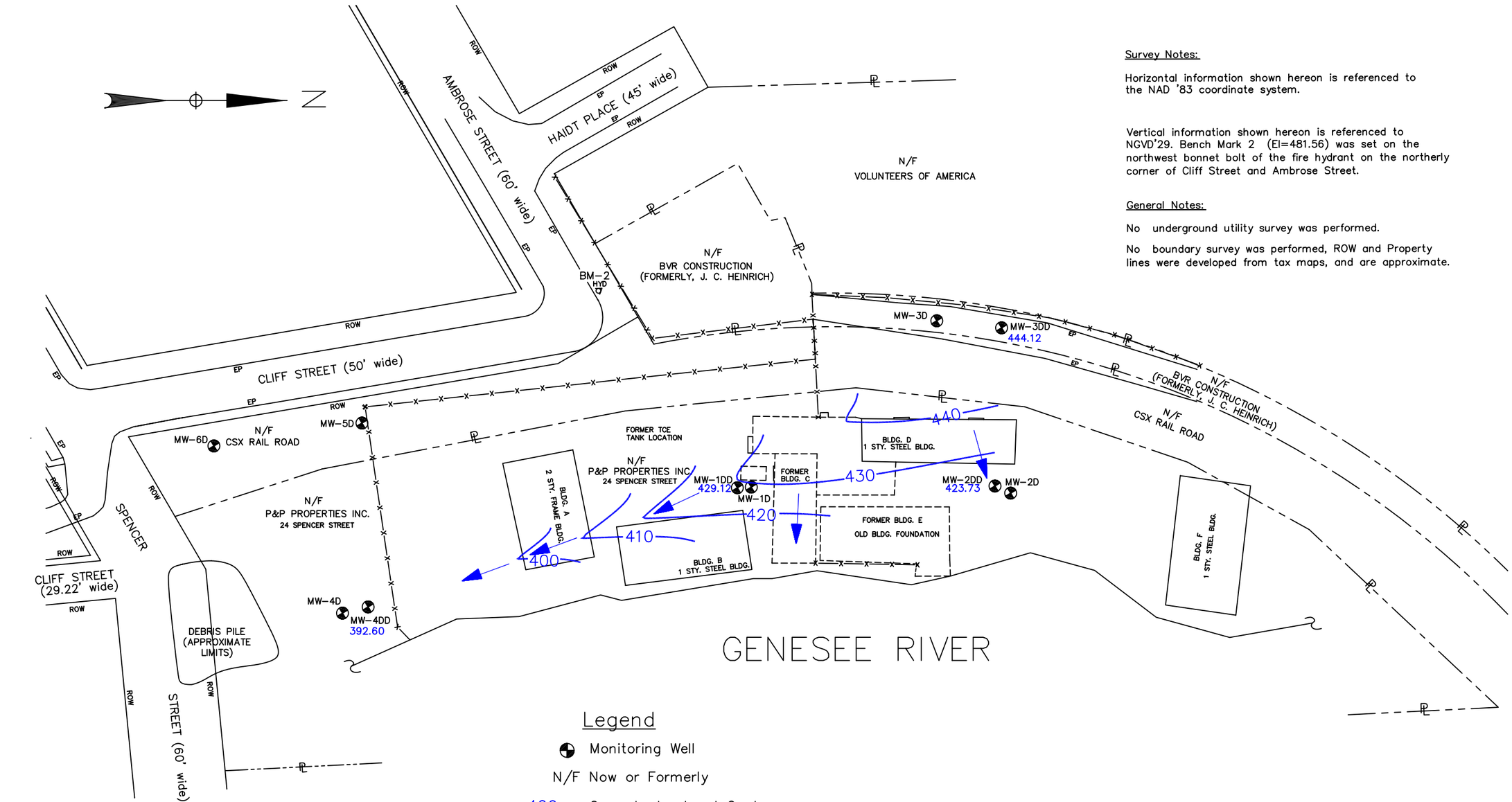
NYSDEC WA-D003970-22

SITE NUMBER 8-28-107

Environmental Resources Management

ERM

CHECKED	DATE	GROUNDWATER LEVEL CONTOUR MAP SHALLOW WELLS - 2006 MARCH 24 SPENCER STREET ROCHESTER, NEW YORK	DRAWING NO. 2-8
DESIGN ENGINEER			REV. NO.
PROJECT ENGINEER			
PROJECT MANAGER			
APPROVED		DRAWN: EFR/EMF; DATE: 12/29/06; REVISION DATE:	
APPROVED		SCALE: AS NOTED; JOB NO.: 0021427.04; FILE NAME: 0021427-04-009	SHEET OF



Survey Notes:

Horizontal information shown hereon is referenced to the NAD '83 coordinate system.

Vertical information shown hereon is referenced to NGVD'29. Bench Mark 2 (El=481.56) was set on the northwest bonnet bolt of the fire hydrant on the northerly corner of Cliff Street and Ambrose Street.

General Notes:

No underground utility survey was performed.

No boundary survey was performed, ROW and Property lines were developed from tax maps, and are approximate.

Legend

- Monitoring Well
- N/F Now or Formerly
- 400 — Groundwater Level Contour
- 392.60 Groundwater Elevation
- Groundwater Flow

30 0 30 60 120

SCALE IN FEET

SOURCE: LARSEN ENGINEERS
700 WEST METRO PARK, ROCHESTER, NEW YORK 14623-2678
(716)272-7310 FAX (716)272-0159
SAMPLE POINT LOCATION MAP, FILE:5388-1.DWG, PROJECT #29-4-5388
PROJECT #29-4-5388, DATED 12/29/99

FIGURE 3

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

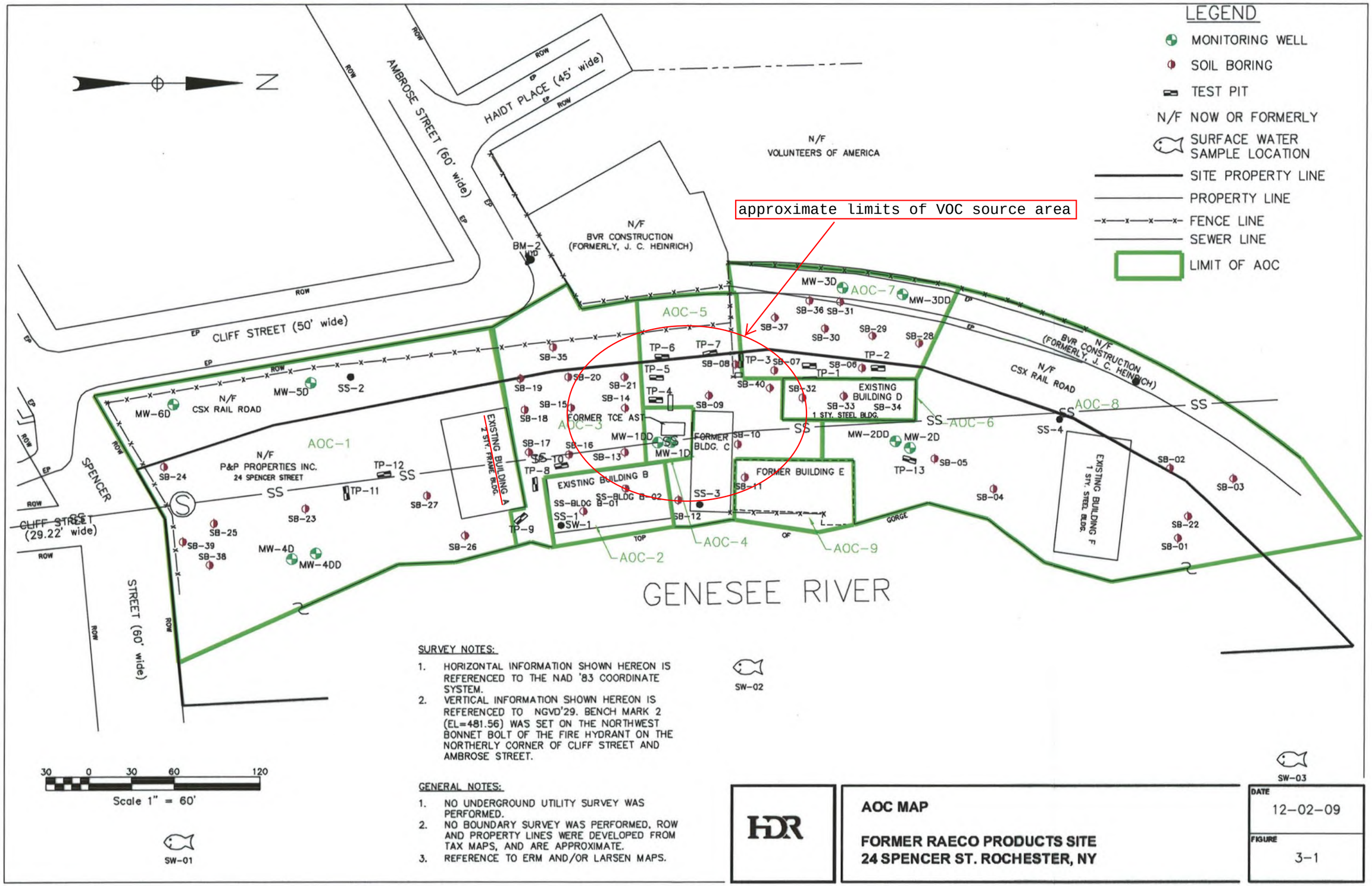
NYSDEC WA-D003970-22

SITE NUMBER 8-28-107

Environmental Resources Management

ERM

CHECKED	DATE	GROUNDWATER LEVEL CONTOUR MAP DEEP WELLS - 2006 MARCH 24 SPENCER STREET ROCHESTER, NEW YORK	DRAWING NO. 2-9
DESIGN ENGINEER			REV. NO.
PROJECT ENGINEER			
PROJECT MANAGER			
APPROVED		DRAWN: EFR/EMF; DATE: 12/29/06; REVISION DATE:	
APPROVED		SCALE: AS NOTED; JOB NO.: 0021427.04; FILE NAME: 0021427-04-008	SHEET OF


LEGEND
MONITORING WELL
SOIL BORING
TEST PIT
N/F NOW OR FORMERLY
SURFACE WATER SAMPLE LOCATION
SITE PROPERTY LINE
PROPERTY LINE
FENCE LINE
SEWER LINE
LIMIT OF AOC
approximate limits of VOC source area
N
AMBROSE STREET (60' wide)
HAIDT PLACE (45' wide)
CLIFF STREET (50' wide)
CLIFF STREET (29.22' wide)
SPENCER STREET (60' wide)
N/F VOLUNTEERS OF AMERICA
N/F BVR CONSTRUCTION (FORMERLY, J. C. HEINRICH)
N/F CSX RAIL ROAD
N/F P&P PROPERTIES INC. 24 SPENCER STREET
EXISTING BUILDING A 2 STY. FRAME BLDG.
EXISTING BUILDING B
EXISTING BUILDING D 1 STY. STEEL BLDG.
EXISTING BUILDING F 1 STY. STEEL BLDG.
FORMER TCE AST
FORMER BLDG. C
FORMER BUILDING E
AOC-1
AOC-2
AOC-3
AOC-4
AOC-5
AOC-6
AOC-7
AOC-8
AOC-9
GENESEE RIVER
GORGE
TOP OF
BM-2
MW-1D
MW-1DD
MW-2D
MW-2DD
MW-3D
MW-3DD
MW-4D
MW-4DD
MW-5D
MW-6D
SW-1
SS-1
SS-2
SS-3
SS-4
SS-BLDG B-01
SS-BLDG B-02
SW-01
SW-02
SW-03
SB-01
SB-02
SB-03
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TP-1
TP-2
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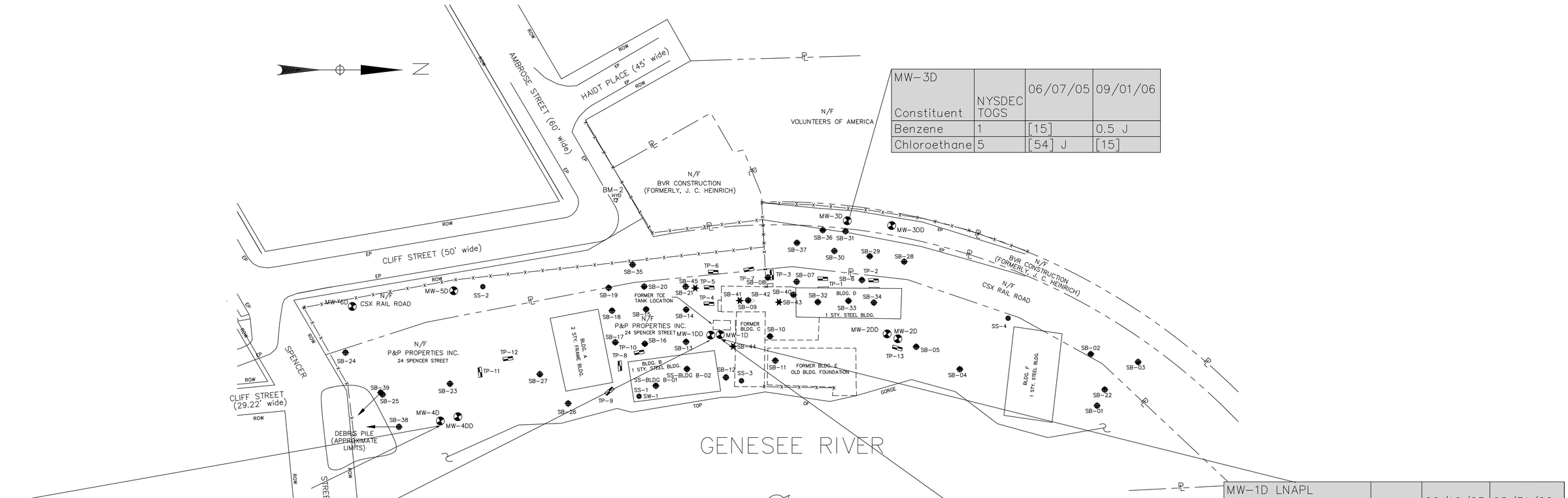
TP-5
TP-6
TP-7
TP-8
TP-9
TP-10
TP-11
TP-12
TP-13
ROW
EP
SS
S
SURVEY NOTES:
1. HORIZONTAL INFORMATION SHOWN HEREON IS REFERENCED TO THE NAD '83 COORDINATE SYSTEM.
2. VERTICAL INFORMATION SHOWN HEREON IS REFERENCED TO NGVD'29. BENCH MARK 2 (EL=481.56) WAS SET ON THE NORTHWEST BONNET BOLT OF THE FIRE HYDRANT ON THE NORTHERLY CORNER OF CLIFF STREET AND AMBROSE STREET.
GENERAL NOTES:
1. NO UNDERGROUND UTILITY SURVEY WAS PERFORMED.
2. NO BOUNDARY SURVEY WAS PERFORMED, ROW AND PROPERTY LINES WERE DEVELOPED FROM TAX MAPS, AND ARE APPROXIMATE.
3. REFERENCE TO ERM AND/OR LARSEN MAPS.
30 0 30 60 120
Scale 1" = 60'
HDR
AOC MAP
FORMER RAECO PRODUCTS SITE
24 SPENCER ST. ROCHESTER, NY
DATE
12-02-09
FIGURE
3-1

FIGURE 4



MW-3D Constituent	NYSDEC TOGS	06/07/05	09/01/06
Benzene	1	[15]	0.5 J
Chloroethane	5	[54] J	[15]

MW-4D Constituent	NYSDEC TOGS	06/09/05	09/01/06
1,1-Dichloroethane	5	[10] J	[11]
Benzene	1	10 U	[2]
cis-1,2-Dichloroethene	5	[890]	[780]
trans-1,2-Dichloroethene	5	100 U	[5]
Trichloroethene	5	[16] J	[96]
Vinyl chloride	2	[2400]	[760] J

MW-1DD Constituent	NYSDEC TOGS	06/13/05	06/13/05	08/31/06	08/31/06
1,1-Dichloroethane	5	[130]	[130]	[390]	[410]
1,1-Dichloroethene	5	50 U	50 U	[6]	[5]
Benzene	1	50 U	50 U	[3]	[3]
Chloroethane	5	50 U	50 U	[22] J	[18] J
cis-1,2-Dichloroethene	5	[840]	[850]	[1900]	[1900]
trans-1,2-Dichloroethene	5	50 U	50 U	[15]	[11]
Vinyl chloride	2	[990]	[930]	[2600] J	[2600] J
Xylene (total)	5	[9] J	50 U	[75]	[70] J

MW-1D Constituent	NYSDEC TOGS	06/13/05	08/31/06
1,1,1-Trichloroethane	5	5000 U	[170] J
1,1-Dichloroethane	5	[1600] J	[1300] J
1,1-Dichloroethene	5	5000 U	[150] J
1,2-Dichlorobenzene	3	5000 U	[6]
1,2-Dichloroethane	0.6	5000 U	[2]
Benzene	1	5000 U	[32] J
cis-1,2-Dichloroethene	5	[81000]	[42000]
Ethylbenzene	5	[750] J	[610] J
Isopropylbenzene	5	NA	[15]
Toluene	5	7600 U	[4200]
trans-1,2-Dichloroethene	5	5000 U	[130] J
Trichloroethene	5	5000 U	[12]
Vinyl chloride	2	[9400]	[22000] J
Xylene (total)	5	[1900] J	[1700] J

MW-1D LNAPL Constituent	NYSDEC TOGS	06/10/05	08/31/06
cis-1,2-Dichloroethene	5	[1800000]	[8400000]
Ethylbenzene	5	[200000]	[1100000]
Toluene	5	[1400000]	[7100000]
Trichloroethene	5	[170000]	[360000] J
Xylene (total)	5	[520000]	[2400000]

Legend

- Monitoring Well
- Test Pit
- Soil Boring
- N/F Now or Formerly
- Surface Water Sample Location
- SVE Pilot Test Extraction Well
- SVE Observation Well

Note: Arrows at SB-38 & SB-39 Indicate Approximate Direction of Bore.

30' 0 30' 60' 120'
SCALE IN FEET

Survey Notes:

Horizontal information shown hereon is referenced to the NAD '83 coordinate system.

Vertical information shown hereon is referenced to NGVD'29. Bench Mark 2 (El=481.56) was set on the northwest bonnet bolt of the fire hydrant on the northerly corner of Cliff Street and Ambrose Street.

General Notes:

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SOURCE: LARSEN ENGINEERS
700 WEST METRO PARK, ROCHESTER, NEW YORK 14623-2678
(716)272-7310 FAX (716)272-0159
SAMPLE POINT LOCATION MAP, FILE:5388-1.DWG, PROJECT #29-4-5388
PROJECT #29-4-5388, DATED 12/29/99

NO.	DATE	APPR.	REVISION

NO.	DATE	APPR.	REVISION

NYSDEC WA-D003970-22

SITE NUMBER 8-28-107

Environmental Resources Management

ERM

	CHECKED	DATE
	DESIGN ENGINEER	
	PROJECT ENGINEER	
	PROJECT MANAGER	
	APPROVED	
	APPROVED	

DETECTIONS OF VOLATILE ORGANIC COMPOUNDS THAT EXCEED GROUNDWATER STANDARDS AND GUIDANCE VALUES FORMER RAECO PRODUCTS SITE

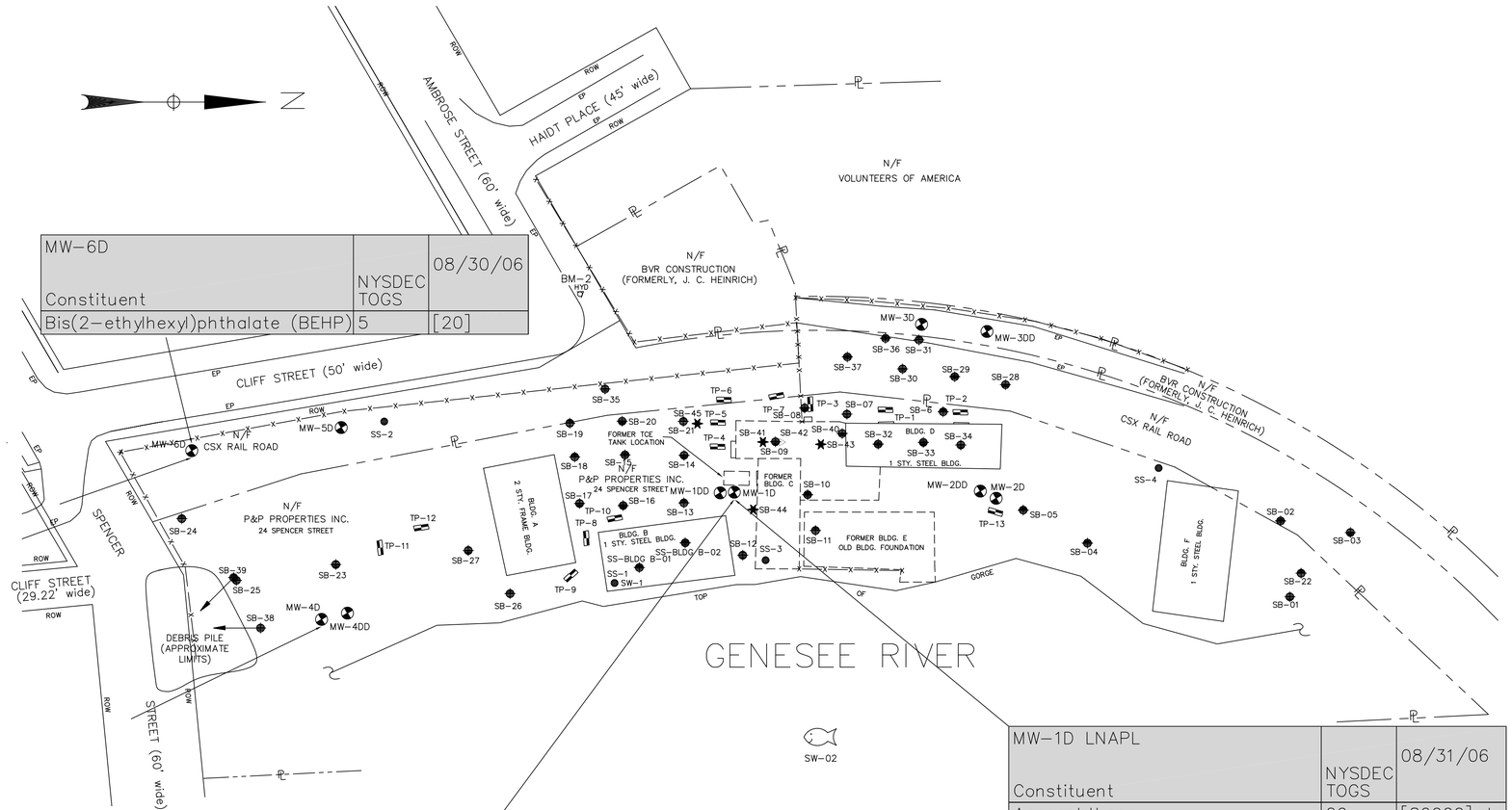
DRAWN	DATE	REVISION DATE:
EFR/EMF	1/23/07	
SCALE	JOB NO.	FILE NAME:
AS NOTED	0021427.04	0021427-04-014

DRAWING NO. 2-5

REV. NO.

SHEET OF

FIGURE 5



MW-6D Constituent	NYSDEC TOGS	08/30/06
Bis(2-ethylhexyl)phthalate (BEHP)	5	[20]

MW-1D Constituent	NYSDEC TOGS	06/13/05	08/31/06
Naphthalene	10	[10]	6
o-Cresol	1	[9]	[5] J
p-Cresol	1	[22]	[10]

MW-1D LNAPL Constituent	NYSDEC TOGS	08/31/06
Acenaphthene	20	[86000] J
Benzo(a)anthracene	0.002	[41000] J
Bis(2-ethylhexyl)phthalate (BEHP)	5	[2200000]
Chrysene	0.002	[51000] J
Fluoranthene	50	[92000] J
Fluorene	50	[83000] J
Naphthalene	10	[72000] J
Phenanthrene	50	[180000] J
Pyrene	50	[95000] J

Legend

- Monitoring Well
- Test Pit
- Soil Boring
- N/F Now or Formerly
- Surface Water Sample Location
- SVE Pilot Test Extraction Well
- SVE Observation Well

Note: Arrows at SB-38 & SB-39 Indicate Approximate Direction of Bore.

30' 0 30' 60' 120'

SCALE IN FEET

Survey Notes:

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General Notes:

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SAMPLE POINT LOCATION MAP, FILE:5388-1.DWG, PROJECT #29-4-5388
PROJECT #29-4-5388, DATED 12/29/99

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

NYSDEC WA-D003970-22

SITE NUMBER 8-28-107

ERM Environmental Resources Management

CHECKED	DATE
DESIGN ENGINEER	
PROJECT ENGINEER	
PROJECT MANAGER	
APPROVED	
APPROVED	

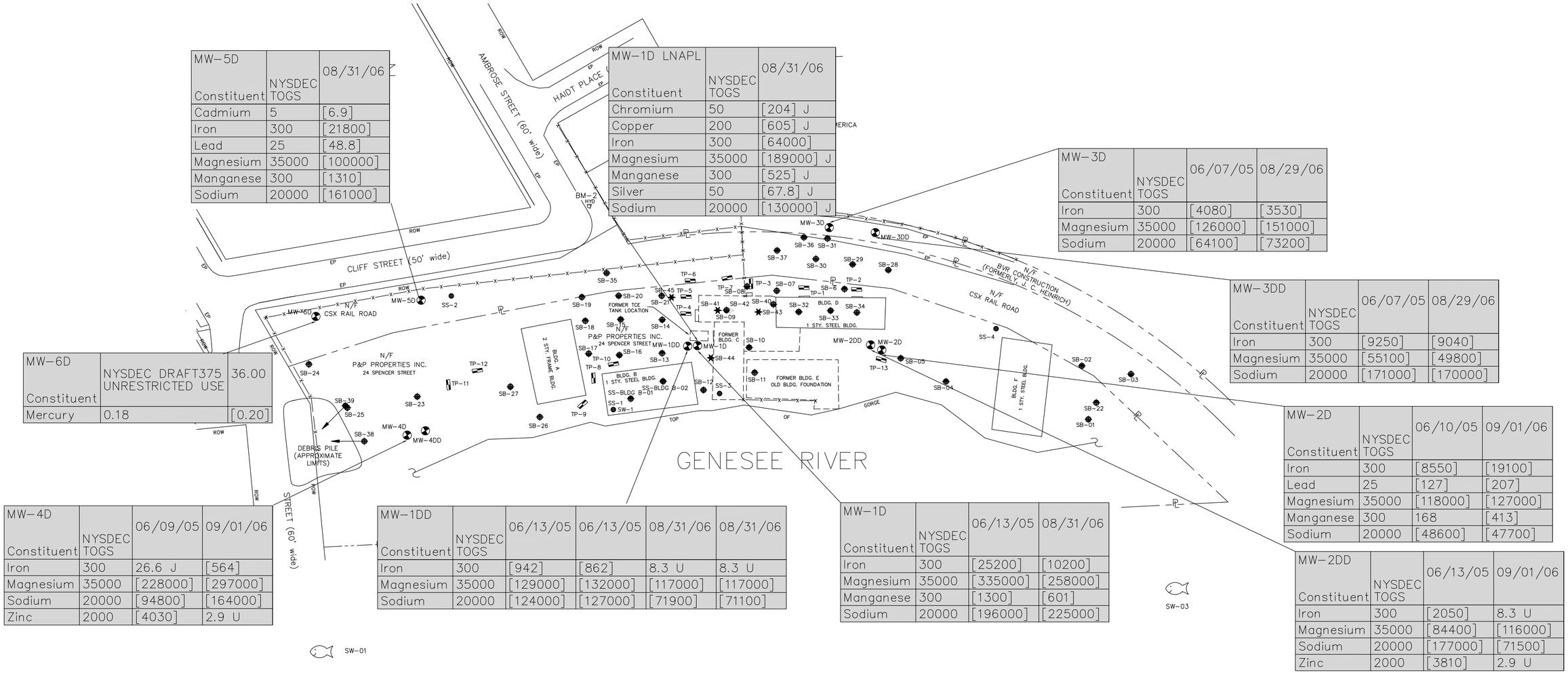
DETECTIONS OF SEMIVOLATILE ORGANIC COMPOUNDS THAT EXCEED GROUNDWATER STANDARDS AND GUIDANCE VALUES FORMER RAECO PRODUCTS SITE

DRAWN	DATE	REVISION DATE:
EFR/EMF	1/23/07	
SCALE	JOB NO.	FILE NAME:
AS NOTED	0021427.04	0021427-04-013

DRAWING NO. 2-6 REV. NO.

SHEET OF

FIGURE 6



MW-5D Constituent	NYSDEC TOGS	08/31/06
Cadmium	5	[6.9]
Iron	300	[21800]
Lead	25	[48.8]
Magnesium	35000	[100000]
Manganese	300	[1310]
Sodium	20000	[161000]

MW-1D LNAPL Constituent	NYSDEC TOGS	08/31/06
Chromium	50	[204] J
Copper	200	[605] J
Iron	300	[64000]
Magnesium	35000	[189000] J
Manganese	300	[525] J
Silver	50	[67.8] J
Sodium	20000	[130000] J

MW-3D Constituent	NYSDEC TOGS	06/07/05	08/29/06
Iron	300	[4080]	[3530]
Magnesium	35000	[126000]	[151000]
Sodium	20000	[64100]	[73200]

MW-3DD Constituent	NYSDEC TOGS	06/07/05	08/29/06
Iron	300	[9250]	[9040]
Magnesium	35000	[55100]	[49800]
Sodium	20000	[171000]	[170000]

MW-6D Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	36.00
Mercury	0.18	[0.20]

MW-2D Constituent	NYSDEC TOGS	06/10/05	09/01/06
Iron	300	[8550]	[19100]
Lead	25	[127]	[207]
Magnesium	35000	[118000]	[127000]
Manganese	300	168	[413]
Sodium	20000	[48600]	[47700]

MW-4D Constituent	NYSDEC TOGS	06/09/05	09/01/06
Iron	300	26.6 J	[564]
Magnesium	35000	[228000]	[297000]
Sodium	20000	[94800]	[164000]
Zinc	2000	[4030]	2.9 U

MW-1DD Constituent	NYSDEC TOGS	06/13/05	06/13/05	08/31/06	08/31/06
Iron	300	[942]	[862]	8.3 U	8.3 U
Magnesium	35000	[129000]	[132000]	[117000]	[117000]
Sodium	20000	[124000]	[127000]	[71900]	[71100]

MW-1D Constituent	NYSDEC TOGS	06/13/05	08/31/06
Iron	300	[25200]	[10200]
Magnesium	35000	[335000]	[258000]
Manganese	300	[1300]	[601]
Sodium	20000	[196000]	[225000]

MW-2DD Constituent	NYSDEC TOGS	06/13/05	09/01/06
Iron	300	[2050]	8.3 U
Magnesium	35000	[84400]	[116000]
Sodium	20000	[177000]	[71500]
Zinc	2000	[3810]	2.9 U

Legend

- Monitoring Well
- Test Pit
- Soil Boring
- N/F Now or Formerly
- Surface Water Sample Location
- SVE Pilot Test Extraction Well
- SVE Observation Well

Note: Arrows at SB-38 & SB-39 Indicate Approximate Direction of Bore.

30' 0 30' 60' 120'
SCALE IN FEET

Survey Notes:

Horizontal information shown hereon is referenced to the NAD '83 coordinate system.

Vertical information shown hereon is referenced to NGVD'29. Bench Mark 2 (El=481.56) was set on the northwest bonnet bolt of the fire hydrant on the northerly corner of Cliff Street and Ambrose Street.

General Notes:

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SAMPLE POINT LOCATION MAP, FILE:5388-1.DWG, PROJECT #29-4-5388
PROJECT #29-4-5388, DATED 12/29/99

NO.	DATE	APPR.	REVISION

NO.	DATE	APPR.	REVISION

NYSDEC WA-D003970-22

SITE NUMBER 8-28-107

ERM Environmental Resources Management

CHECKED	DATE
DESIGN ENGINEER	
PROJECT ENGINEER	
PROJECT MANAGER	
APPROVED	
APPROVED	

DETECTIONS OF METALS THAT EXCEED GROUNDWATER STANDARDS AND GUIDANCE VALUES FORMER RAECO PRODUCTS SITE

DRAWN	DATE	REVISION DATE:
EFR/EMF	1/23/07	
SCALE	JOB NO.	FILE NAME:
AS NOTED	0021427.04	0021427-04-012

DRAWING NO. 2-7 REV. NO.

SHEET OF

FIGURE 7

COMMERCIAL SCOs (ppb)

VC= 13,000
Benzene= 44,000
toluene= 500,000
ethylbenzene= 390,000
xylene= 500,000
DCA= 240,000
TCA= 500,000
DCE= 500,000
PCE= 150,000
TCE= 200,000

SB-09 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	8.00 04/26/05	11.50 04/26/05	4.00 04/26/05	4.00 04/26/05
Vinyl chloride	20	88000 U	55 U	[2400] J	[4400] J
Acetone	50	88000 U	[490]	[28000]	[44000]
1,1-Dichloroethane	270	88000 U	55 U	[2100] J	[4500] J
1,1,1-Trichloroethane	680	88000 U	55 U	[930] J	[1600] J
Trichloroethene	470	88000 U	55 U	[7900] J	[5900] J
Tetrachloroethene	1300	88000 U	55 U	[16000]	[18000]
Toluene	700	[750000]	76	[150000]	[230000]
Ethylbenzene	1000	[48000] J	51 J	[34000]	[52000]
Xylene (total)	260	[300000]	[530]	[220000]	[350000]
cis-1,2-Dichloroethene	250	88000 U	55 U	[29000]	[47000]
1,2-Dichlorobenzene	1100	[19000] J	110	[8700] J	[16000] J

SB-21 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	8.00 04/27/05
2-Butanone	120	[580] J

SB-35 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	20.00 08/04/06
Ethylbenzene	1000	[1900]
Xylene (total)	260	[6200]

SB-20 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	15.00 04/27/05
2-Butanone	120	[760] J
Ethylbenzene	1000	[4100]
Xylene (total)	260	[7100]

SB-19 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	16.00 04/27/05	20.00 04/27/05
Acetone	50	[340] J	[210] J
Trichloroethene	470	[800] J	65 U
cis-1,2-Dichloroethene	250	[270] J	5 J

SB-15 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	19.00 04/26/05
2-Butanone	120	[940] J
Benzene	60	[270] J
Xylene (total)	260	[810] J

SB-18 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	20.00 04/27/05
Acetone	50	[70] J

SB-17 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	6.00 04/27/05
Trichloroethene	470	[71000]
cis-1,2-Dichloroethene	250	[11000]

SB-16 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	12.00 04/26/05	16.00 04/26/05
2-Butanone	120	[610] J	[550] J
Toluene	700	[30000]	240 J
Ethylbenzene	1000	[2400]	1700 U
Xylene (total)	260	[13000]	[660] J

SB-14 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	13.00 04/26/05
Vinyl chloride	20	[79] J
Xylene (total)	260	[290]
cis-1,2-Dichloroethene	250	[410]

SB-10 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	4.00 04/26/05
Xylene (total)	260	[320]

SB-08 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	4.00 04/26/05
Vinyl chloride	20	[3700] J
Benzene	60	[1200] J
Toluene	700	[4100] J
Ethylbenzene	1000	[3200] J
Xylene (total)	260	[16000]
cis-1,2-Dichloroethene	250	[3700] J
trans-1,2-Dichloroethene	190	[540] J

SB-31 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	18.00 08/04/06
Methylene Chloride	50	[83] J
Acetone	50	[110] J

SB-30 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	14.00 08/02/06
Acetone	50	[71] J

SB-29 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	10.00 08/01/06
Acetone	50	[58] J

SB-28 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	12.00 07/31/06
Acetone	50	[79] J

SB-06 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	10.50 04/25/05	10.50 04/25/05
2-Butanone	120	[750] J	[710] J

SB-33 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	4.00 08/04/06
2-Butanone	120	[140] J

SB-34 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	8.00 08/04/06
Acetone	50	[79] J

SB-03 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	22.00 04/25/05
Acetone	50	[200] J

SB-04 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	12.00 04/25/05
Trichloroethene	470	[690]

SB-32 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	4.00 08/04/06	4.00 08/04/06	8.00 08/04/06
Methylene Chloride	50	1800 U	[92] J	2000 U
Xylene (total)	260	[59000]	[3500]	[20000]

SB-07 Constituent	NYSDEC DRAFT375 UNRESTRICTED USE	8.00 04/26/05	11.00 04/26/05
Acetone	50	1900 U	[58]
2-Butanone	120	[680] J	13 UJ
Xylene (total)	260	[1600] J	0.9 J

Survey Notes:

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General Notes:

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= EXCEEDS COMMERCIAL SCOs

= EXCEEDS UNRESTRICTED SCO

Legend

- Monitoring Well
- Test Pit
- Soil Boring
- N/F Now or Formerly
- Surface Water Sample Location
- SVE Pilot Test Extraction Well
- SVE Observation Well

30' 0 30' 60' 120'

SCALE IN FEET

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PROJECT #29-4-5388, DATED 12/29/99

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

NYSDEC WA-D003970-22

SITE NUMBER 8-28-107

Environmental Resources Management

ERM

CHECKED	DATE		
DESIGN ENGINEER			
PROJECT ENGINEER			
PROJECT MANAGER			
APPROVED			
APPROVED			

DETECTIONS OF VOLATILE ORGANIC COMPOUNDS THAT EXCEED SOIL CLEANUP OBJECTIVES
FORMER RAECO PRODUCTS SITE
ROCHESTER, NEW YORK

DRAWN	DATE	REVISION DATE:
ETG	1/22/07	
SCALE	JOB NO.	FILE NAME:
AS NOTED	0021427.04	0021427-04-017

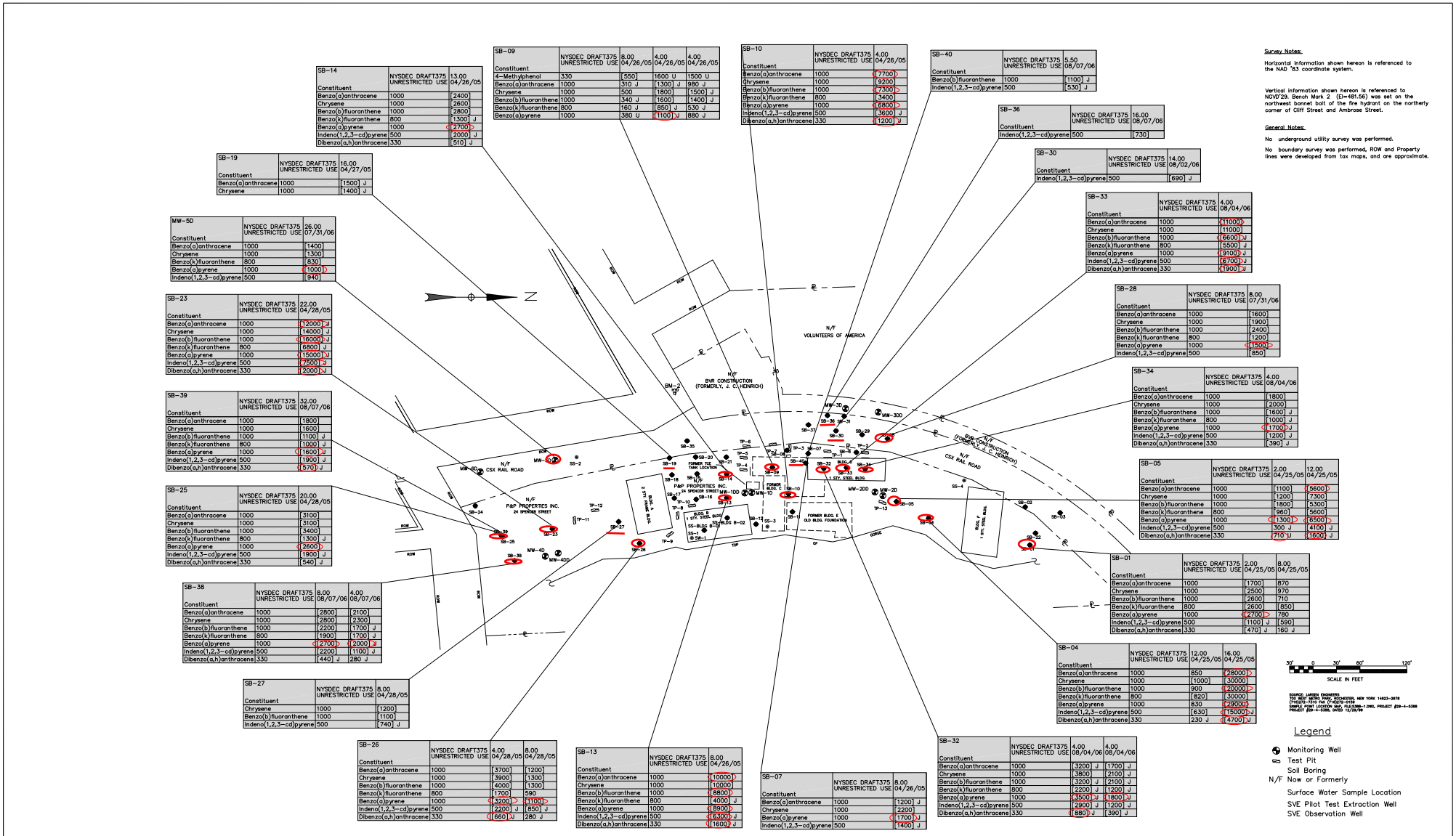
DRAWING NO. 2-2 REV. NO.

SHEET OF

FIGURE 8

COMMERCIAL SCOs (ppb)

benzo(a)anthracene=5600
benzo(a)pyrene= 1000
benzo(b)fluoranthene= 5600
dibenz(a,h)anthracene= 560
indeno(1,2,3-cd)pyrene= 5600



NYSDEC WA-D003970-22

SITE NUMBER 8-28-107

Environmental Resources Management

DETECTIONS OF SEMIVOLATILE ORGANIC COMPOUNDS THAT EXCEED SOIL CLEANUP OBJECTIVES
FORMER RAECO PRODUCTS SITE

DRAWING NO. 2-3

DRAWN ETG | DATE 1/22/07 | SCALE AS NOTED | JOB NO. 0021427.04 | FILE NAME 0021427-04-016

O = EXCEEDS COMMERCIAL SCO

— = EXCEEDS UNRESTRICTED SCO

FIGURE 9

COMMERCIAL SCOs (ppm)
Mercury= 2.8
Lead= 1000

SB-09	NYSDEC DRAFT375 UNRESTRICTED USE	8.00	4.00	4.00
Constituent				
Arsenic	13	5.6 [15] J		4.9 J
Barium	350	[398]	118	56.3
Copper	50	26.2 [228] J		37.8 J
Lead	63	[112]	[350] J	[86.1] J
Mercury	0.18	[5.8]	[0.34] J	0.05 J
Zinc	109	81.1	[138]	90.6

SB-21	NYSDEC DRAFT375 UNRESTRICTED USE	8.00
Constituent		
Lead	63	[68.9] J

SB-08	NYSDEC DRAFT375 UNRESTRICTED USE	4.00
Constituent		
Barium	350	[1160]
Beryllium	7.2	[14.6]
Copper	50	[362]
Lead	63	[274]
Manganese	1600	[1620]
Selenium	3.9	[5.4]
Zinc	109	[183]

SB-40	NYSDEC DRAFT375 UNRESTRICTED USE	5.50
Constituent		
Lead	63	[159]
Mercury	0.18	[0.28]
Zinc	109	[150]

SB-07	NYSDEC DRAFT375 UNRESTRICTED USE	8.00
Constituent		
Copper	50	[50.6]
Lead	63	[400]
Mercury	0.18	[0.32]
Zinc	109	[229]

SB-36	NYSDEC DRAFT375 UNRESTRICTED USE	16.00
Constituent		
Copper	50	[59.9]
Lead	63	[125]
Mercury	0.18	[0.18]

SB-31	NYSDEC DRAFT375 UNRESTRICTED USE	14.00
Constituent		
Lead	63	[91.9]
Mercury	0.18	[0.69]

SB-20	NYSDEC DRAFT375 UNRESTRICTED USE	15.00
Constituent		
Copper	50	[66.7]
Lead	63	[78.1] J
Mercury	0.18	[0.26] J

SB-32	NYSDEC DRAFT375 UNRESTRICTED USE	4.00	4.00	8.00
Constituent				
Copper	50	[196]	[135]	26.7
Lead	63	[428]	[433]	[84.5]
Mercury	0.18	[0.97]	[0.48]	[0.39]
Zinc	109	[204]	[186]	45.9

SB-19	NYSDEC DRAFT375 UNRESTRICTED USE	16.00	20.00
Constituent			
Copper	50	40.3	[96.8]
Lead	63	[261] J	[147] J
Mercury	0.18	[0.81] J	[0.32] J
Zinc	109	[139]	81

SB-15	NYSDEC DRAFT375 UNRESTRICTED USE	19.00
Constituent		
Copper	50	[62.8]
Lead	63	[382]
Mercury	0.18	[1.5]
Zinc	109	[149]

SB-18	NYSDEC DRAFT375 UNRESTRICTED USE	20.00
Constituent		
Lead	63	[136] J
Mercury	0.18	[0.2] J

MW-6D	NYSDEC DRAFT375 UNRESTRICTED USE	36.00
Constituent		
Mercury	0.18	[0.20]

SB-17	NYSDEC DRAFT375 UNRESTRICTED USE	6.00
Constituent		
Arsenic	13	[8.4]
Copper	50	[824]
Lead	63	[135] J
Mercury	0.18	[0.85] J
Zinc	109	[178]

SB-24	NYSDEC DRAFT375 UNRESTRICTED USE	12.00
Constituent		
Arsenic	13	[13.1]
Copper	50	[57.9]
Lead	63	[957] J
Mercury	0.18	[2.1] J
Zinc	109	[116]

SB-39	NYSDEC DRAFT375 UNRESTRICTED USE	32.00
Constituent		
Cadmium	2.5	[3.6]
Copper	50	[129] J
Lead	63	[1770]
Mercury	0.18	[0.42]
Zinc	109	[601]

SB-25	NYSDEC DRAFT375 UNRESTRICTED USE	20.00	24.00
Constituent			
Copper	50	[52.2]	[150]
Lead	63	[584]	[189]
Mercury	0.18	[0.44] J	[0.42] J

SB-38	NYSDEC DRAFT375 UNRESTRICTED USE	8.00	4.00
Constituent			
Copper	50	[480]	27.3
Lead	63	[187]	62.4
Mercury	0.18	[1.3]	[0.21]
Silver	2	[2.2] J	0.084 UJ
Zinc	109	[155]	[207]

SB-27	NYSDEC DRAFT375 UNRESTRICTED USE	8.00	11.00
Constituent			
Lead	63	[153]	39
Manganese	1600	333	[1610]
Mercury	0.18	[0.88] J	.29 J
Nickel	30	[150] J	11.8 J

SB-13	NYSDEC DRAFT375 UNRESTRICTED USE	8.00
Constituent		
Copper	50	[53.4]
Lead	63	[3990]
Mercury	0.18	[0.53]
Zinc	109	[259]

SB-23	NYSDEC DRAFT375 UNRESTRICTED USE	22.00
Constituent		
Lead	63	[99.4] J
Mercury	0.18	[0.21] J
Zinc	109	[126]

SB-26	NYSDEC DRAFT375 UNRESTRICTED USE	4.00	8.00
Constituent			
Copper	50	[55.5]	[76.5]
Lead	63	[181]	[201]
Mercury	0.18	[0.45] J	[0.81] J

SS-BLDGB-02	NYSDEC DRAFT375 UNRESTRICTED USE	0.00
Constituent		
Barium	350	[501]
Lead	63	[150]
Zinc	109	[282] J

SB-14	NYSDEC DRAFT375 UNRESTRICTED USE	13.00
Constituent		
Copper	50	[60]
Lead	63	[138]
Mercury	0.18	[0.46]
Zinc	109	[419]

SB-12	NYSDEC DRAFT375 UNRESTRICTED USE	3.00
Constituent		
Lead	63	[94.1]
Mercury	0.18	[1.3]

SB-01	NYSDEC DRAFT375 UNRESTRICTED USE	2.00	8.00
Constituent			
Copper	50	34.7	[155]
Lead	63	[77.2]	[121]
Mercury	0.18	0.12	[0.18]
Zinc	109	[114]	[144]

SB-04	NYSDEC DRAFT375 UNRESTRICTED USE	12.00	16.00
Constituent			
Lead	63	[122]	[133]
Mercury	0.18	[0.19]	[0.29]
Zinc	109	[140]	99.2

SB-10	NYSDEC DRAFT375 UNRESTRICTED USE	4.00
Constituent		
Lead	63	[136]
Mercury	0.18	[0.26]

SB-11	NYSDEC DRAFT375 UNRESTRICTED USE	2.00
Constituent		
Zinc	109	[372]

SB-05	NYSDEC DRAFT375 UNRESTRICTED USE	2.00	12.00
Constituent			
Barium	350	[535]	[2530]
Copper	50	[83.9]	[122]
Lead	63	[301]	[374]
Mercury	0.18	[0.46]	[0.45]
Zinc	109	[306]	[456]

SB-22	NYSDEC DRAFT375 UNRESTRICTED USE	4.00	12.00
Constituent			
Copper	50	[158]	4.9 J
Lead	63	[169] J	50.8 J
Mercury	0.18	[0.38] J	[0.27] J
Zinc	109	[167]	[256]

SB-06	NYSDEC DRAFT375 UNRESTRICTED USE	8.00	10.50	10.50
Constituent				
Lead	63	[829]	[620]	[589]
Mercury	0.18	[0.38]	[3.4]	[3.5]
Zinc	109	79.2	[134]	[132]

SB-33	NYSDEC DRAFT375 UNRESTRICTED USE	4.00
Constituent		
Lead	63	[132]
Mercury	0.18	[0.61]

SB-34	NYSDEC DRAFT375 UNRESTRICTED USE	4.00
Constituent		
Arsenic	13	[22.3] J
Copper	50	[73.1]
Lead	63	[567]
Mercury	0.18	[0.30]
Zinc	109	[307]

Survey Notes:

Horizontal information shown hereon is referenced to the NAD '83 coordinate system.

Vertical information shown hereon is referenced to NGVD'29. Bench Mark 2 (El=481.58) was set on the northwest bonnet bolt of the fire hydrant on the nort corner of Cliff Street and Ambrose Street.

General Notes:

No underground utility survey was performed.

No boundary survey was performed, ROW and Property lines were developed from tax maps, and are approximate.

Legend

- Monitoring Well
- Test Pit
- Soil Boring
- N/F Now or Formerly
- Surface Water Sample Location
- SVE Pilot Test Extraction Well
- SVE Observation Well
- = EXCEEDANCE OF COMMERCIAL SCO
- = EXCEEDANCE OF UNRESTRICTED SCO

30' 0 30' 60' 120'
SCALE IN FEET

SOURCE: LARSEN ENGINEERS
700 WEST METRO PARK, ROCHESTER, NEW YORK 14623-2678
(716)272-7310 FAX (716)272-0158
SAMPLE POINT LOCATION MAP, FILE:5388-1.DWG, PROJECT #29-4-5388
PROJECT #29-4-5388, DATED 12/29/99

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

NYSDEC WA-D003970-22

SITE NUMBER 8-28-107

Environmental Resources Management

CHECKED	DATE
DESIGN ENGINEER	
PROJECT ENGINEER	
PROJECT MANAGER	
APPROVED	
APPROVED	

DETECTIONS OF METALS THAT EXCEED SOIL CLEANUP OBJECTIVES FORMER RAECO PRODUCTS SITE ROCHESTER, NEW YORK

DRAWN	DATE	REVISION DATE:
ETG	1/22/07	
SCALE	JOB NO.	FILE NAME:
AS NOTED	0021427.04	0021427-04-015

DRAWING NO. 2-4 REV. NO.

SHEET OF

FIGURE 10

APPENDIX A

Responsiveness Summary

APPENDIX A

Responsiveness Summary
RESPONSIVENESS SUMMARY

Former Raeco Products
State Superfund Project
Rochester (C), Monroe County, New York
Site No. 828107

The Proposed Remedial Action Plan (PRAP) for the Former Raeco Products site, was prepared by the New York State Department of Environmental Conservation (the Department) in consultation with the New York State Department of Health (NYSDOH) and was issued to the document repositories on February 25, 2010. The PRAP outlined the remedial measure proposed for the contaminated soil and groundwater at the Former Raeco Products site.

The release of the PRAP was announced by sending a notice to the public contact list, informing the public of the opportunity to comment on the proposed remedy.

A public meeting was held on March 16, 2010, which included a presentation of the remedial investigation and feasibility study (RI/FS) for the Former Raeco Products site as well as a discussion of the proposed remedy. The meeting provided an opportunity for citizens to discuss their concerns, ask questions and comment on the proposed remedy. These comments have become part of the Administrative Record for this site. The public comment period for the PRAP ended on March 29, 2010.

This responsiveness summary responds to all questions and comments raised during the public comment period. The following are the comments received, with the Department's responses:

COMMENT 1: A gentleman who owns property adjacent to the Former Raeco Products site was asking general questions about what was found at the site, as well as asking about the components of the proposed plan.

RESPONSE 1: The findings of the RI were summarized, going through the site figures to illustrate what was found where, along with an integrated discussion of the components of the remedy and how they would address the contamination found in the different media.

COMMENT 2: Part of Response #1 included some discussion on an old City sewer project, part of which involved work at the southern end of the site. The gentleman from Comment #1 offered some of his experiences with a sewer rehabilitation project, part of which was performed

through a vertical sewer access point at the southern portion of the site, conducted in the early 1990's.

RESPONSE 2: No response necessary.

COMMENT 3: The former CSX right-of-way (ROW), which runs along the entire western edge of the site from the old Genesee River railroad bridge to the southwestern corner of the site, was recently purchased by the City of Rochester. The City is considering using this property as part of a pedestrian path. Representatives from the City of Rochester asked what potential issues (both logistical and financial) the City may encounter due to the presence of the Former Raeco Products site immediately adjacent to the property which they may develop into a pedestrian path.

RESPONSE 3: Some of the samples taken from the former CSX ROW did contain elevated concentrations of site related contamination. As a result, there is the potential that components of the remedy (i.e., cover and/or placement of elements of the SVE system) may be installed just across the property line onto the former CSX ROW. If implementation of the remedy requires some work to be performed on the property currently owned by the City of Rochester (the former CSX ROW) the Department will coordinate those activities with the City. All remedial work, including complete restoration in kind, on the former CSX ROW will be paid for by the responsible party or the State, as appropriate.

APPENDIX B

Administrative Record

Administrative Record

Former Raeco Products Site
State Superfund Project
Rochester (C), Monroe County, New York
Site No. 828107

1. Proposed Remedial Action Plan for the Former Raeco Products site, dated February 2010, prepared by the Department.

2. "Preliminary Site Investigation Report", dated April 2001, prepared by the Department.

3. Referral Memorandum dated October 25, 2001 to perform the State funded Remedial Investigation/Feasibility Study (RI/FS).

4. "Remedial Investigation/Feasibility Study Work Plan", dated February 2005, prepared by Environmental Resources Management (ERM).

5. "Citizen Participation Plan", dated April 2005, prepared by the Department.

6. "Remedial Investigation Report", dated February 2007, prepared by Environmental Resources Management (ERM).

7. "Feasibility Study Report", dated March 2010, prepared by HDR.

APPENDIX B
Laboratory Analytical Reports

ANALYTICAL REPORT

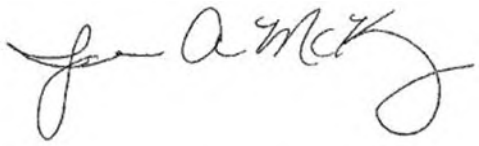
Job Number: 140-23523-1

Job Description: Former Raeco Products 828107

Contract Number: C100700

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, NY 12233-7014

Attention: Brianna Scharf



Approved for release.
Jamie A McKinney
Senior Project Manager
7/1/2021 3:40 PM

Jamie A McKinney, Senior Project Manager
5815 Middlebrook Pike, Knoxville, TN, 37921
(865)291-3000
Jamie.McKinney@Eurofinset.com
07/01/2021

The test results in this report meet all 2003 NELAC and 2003 TNI requirements for accredited parameters, exceptions are noted in this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Table of Contents

Table of Contents

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
140-23523-1

Comments
No additional comments.

Receipt
The samples were received on 6/18/2021 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

Air - GC/MS VOA
Methods TO 15 LL, TO-14A, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

Method TO 15 LL: The continuing calibration verification (CCV) associated with batch 140-51274 recovered above the upper control limit for Benzyl chloride. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

Method TO 15 LL: The laboratory control sample (LCS) for analytical batch 140-51274 recovered outside control limits for the following analyte: Benzyl chloride. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method TO 15 LL: The continuing calibration verification (CCV) associated with batch 140-51283 exhibited % difference of > 30% for the following analyte(s) Ethanol; however, the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

Methods TO 15 LL, TO-15: The continuing calibration verification (CCV) associated with batch 140-51316 exhibited % difference of > 30% for the following analyte(s) 1,2,4-Trimethylbenzene, Bromoform and Trichlorofluoromethane; however, the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

Methods TO 15 LL, TO-15: The continuing calibration verification (CCV) associated with batch 140-51316 recovered above the upper control limit for 2-Methylnaphthalene, Benzyl chloride and Carbon tetrachloride. The samples associated with this CCV were non-detects above the reporting limit for the affected analytes; therefore, the data have been reported.

Methods TO 15 LL, TO-15: The following analyte(s) recovered outside control limits for the LCS associated with analytical batch 140-51316: 1,2,4-Trimethylbenzene. This is not indicative of a systematic control problem because this was random marginal exceedance. Qualified results have been reported.

Methods TO 15 LL, TO-15: The laboratory control sample (LCS) for analytical batch 140-51316 recovered outside control limits for the following analytes: 2-Methylnaphthalene, Benzyl chloride and Carbon tetrachloride. These analytes were biased high in the LCS and were not detected above the reporting limit in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample ID: HSVE SHALLOW
Lab Sample ID: 140-23523-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	74		67		ppb v/v	33.59		TO 15 LL	Total/NA
cis-1,2-Dichloroethene	250		34		ppb v/v	33.59		TO 15 LL	Total/NA
trans-1,2-Dichloroethene	79		67		ppb v/v	33.59		TO 15 LL	Total/NA
Trichloroethene	4800		30		ppb v/v	33.59		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	410		370		ug/m3	33.59		TO 15 LL	Total/NA
cis-1,2-Dichloroethene	990		130		ug/m3	33.59		TO 15 LL	Total/NA
trans-1,2-Dichloroethene	310		270		ug/m3	33.59		TO 15 LL	Total/NA
Trichloroethene	26000		160		ug/m3	33.59		TO 15 LL	Total/NA

Client Sample ID: HSVE DEEP
Lab Sample ID: 140-23523-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.79		0.57		ppb v/v	1		TO 15 LL	Total/NA
1,3-Dichlorobenzene	1.1		0.57		ppb v/v	1		TO 15 LL	Total/NA
cis-1,2-Dichloroethene	9.2		0.29		ppb v/v	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.60		0.57		ppb v/v	1		TO 15 LL	Total/NA
Ethanol	18		14		ppb v/v	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	0.61		0.57		ppb v/v	1		TO 15 LL	Total/NA
trans-1,2-Dichloroethene	1.1		0.57		ppb v/v	1		TO 15 LL	Total/NA
Trichloroethene	43		0.26		ppb v/v	1		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	4.3		3.1		ug/m3	1		TO 15 LL	Total/NA
1,3-Dichlorobenzene	6.5		3.4		ug/m3	1		TO 15 LL	Total/NA
cis-1,2-Dichloroethene	36		1.1		ug/m3	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	3.0		2.8		ug/m3	1		TO 15 LL	Total/NA
Ethanol	34		27		ug/m3	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	2.7		2.5		ug/m3	1		TO 15 LL	Total/NA
trans-1,2-Dichloroethene	4.4		2.3		ug/m3	1		TO 15 LL	Total/NA
Trichloroethene	230		1.4		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: SVE - 1
Lab Sample ID: 140-23523-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	79		38		ppb v/v	37.59		TO 15 LL	Total/NA
cis-1,2-Dichloroethene	180		19		ppb v/v	37.59		TO 15 LL	Total/NA
Trichloroethene	3300		17		ppb v/v	37.59		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	430		210		ug/m3	37.59		TO 15 LL	Total/NA
cis-1,2-Dichloroethene	720		75		ug/m3	37.59		TO 15 LL	Total/NA
Trichloroethene	18000		91		ug/m3	37.59		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: HSVE SHALLOW
Lab Sample ID: 140-23523-1

Date Collected: 06/15/21 02:42
Matrix: Air
Date Received: 06/18/21 09:10
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**74**		67		ppb v/v			06/29/21 01:51	33.59
1,1,2,2-Tetrachloroethane	ND		67		ppb v/v			06/29/21 01:51	33.59
1,1,2-Trichloroethane	ND		67		ppb v/v			06/29/21 01:51	33.59
1,1,2-Trichlorotrifluoroethane	ND		67		ppb v/v			06/29/21 01:51	33.59
1,1-Dichloroethane	ND		67		ppb v/v			06/29/21 01:51	33.59
1,1-Dichloroethene	ND		34		ppb v/v			06/29/21 01:51	33.59
1,2,4-Trichlorobenzene	ND		67		ppb v/v			06/29/21 01:51	33.59
1,2,4-Trimethylbenzene	ND		67		ppb v/v			06/29/21 01:51	33.59
1,2-Dibromoethane	ND		67		ppb v/v			06/29/21 01:51	33.59
1,2-Dichlorobenzene	ND		67		ppb v/v			06/29/21 01:51	33.59
1,2-Dichloroethane	ND		67		ppb v/v			06/29/21 01:51	33.59
1,2-Dichloropropane	ND		67		ppb v/v			06/29/21 01:51	33.59
1,2-Dichlorotetrafluoroethane	ND		67		ppb v/v			06/29/21 01:51	33.59
1,3,5-Trimethylbenzene	ND		67		ppb v/v			06/29/21 01:51	33.59
1,3-Dichlorobenzene	ND		67		ppb v/v			06/29/21 01:51	33.59
1,4-Dichlorobenzene	ND		67		ppb v/v			06/29/21 01:51	33.59
1,4-Dioxane	ND		170		ppb v/v			06/29/21 01:51	33.59
2,2,4-Trimethylpentane	ND		170		ppb v/v			06/29/21 01:51	33.59
2-Butanone	ND		270		ppb v/v			06/29/21 01:51	33.59
4-Methyl-2-pentanone (MIBK)	ND		170		ppb v/v			06/29/21 01:51	33.59
Benzene	ND		67		ppb v/v			06/29/21 01:51	33.59
Benzyl chloride	ND	*+	130		ppb v/v			06/29/21 01:51	33.59
Bromodichloromethane	ND		67		ppb v/v			06/29/21 01:51	33.59
Bromoform	ND		67		ppb v/v			06/29/21 01:51	33.59
Bromomethane	ND		67		ppb v/v			06/29/21 01:51	33.59
Carbon tetrachloride	ND		27		ppb v/v			06/29/21 01:51	33.59
Chlorobenzene	ND		67		ppb v/v			06/29/21 01:51	33.59
Chloroethane	ND		67		ppb v/v			06/29/21 01:51	33.59
Chloroform	ND		67		ppb v/v			06/29/21 01:51	33.59
Chloromethane	ND		170		ppb v/v			06/29/21 01:51	33.59
cis-1,2-Dichloroethene	**250**		34		ppb v/v			06/29/21 01:51	33.59
cis-1,3-Dichloropropene	ND		67		ppb v/v			06/29/21 01:51	33.59
Cyclohexane	ND		170		ppb v/v			06/29/21 01:51	33.59
Dibromochloromethane	ND		67		ppb v/v			06/29/21 01:51	33.59
Dichlorodifluoromethane	ND		67		ppb v/v			06/29/21 01:51	33.59
Ethanol	ND		1700		ppb v/v			06/29/21 01:51	33.59
Ethylbenzene	ND		67		ppb v/v			06/29/21 01:51	33.59
Hexachlorobutadiene	ND		67		ppb v/v			06/29/21 01:51	33.59
Hexane	ND		170		ppb v/v			06/29/21 01:51	33.59
Methyl tert-butyl ether	ND		130		ppb v/v			06/29/21 01:51	33.59
Methylene Chloride	ND		340		ppb v/v			06/29/21 01:51	33.59
m-Xylene & p-Xylene	ND		67		ppb v/v			06/29/21 01:51	33.59
Naphthalene	ND		170		ppb v/v			06/29/21 01:51	33.59
o-Xylene	ND		67		ppb v/v			06/29/21 01:51	33.59
Styrene	ND		67		ppb v/v			06/29/21 01:51	33.59
t-Butyl alcohol	ND		270		ppb v/v			06/29/21 01:51	33.59
Tetrachloroethene	ND		67		ppb v/v			06/29/21 01:51	33.59
Toluene	ND		100		ppb v/v			06/29/21 01:51	33.59

Client Sample ID: HSVE SHALLOW
Lab Sample ID: 140-23523-1

Date Collected: 06/15/21 02:42
Matrix: Air
Date Received: 06/18/21 09:10
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	**79**		67		ppb v/v			06/29/21 01:51	33.59
trans-1,3-Dichloropropene	ND		67		ppb v/v			06/29/21 01:51	33.59
Trichloroethene	**4800**		30		ppb v/v			06/29/21 01:51	33.59
Trichlorofluoromethane	ND		67		ppb v/v			06/29/21 01:51	33.59
Vinyl chloride	ND		34		ppb v/v			06/29/21 01:51	33.59

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**410**		370		ug/m3			06/29/21 01:51	33.59
1,1,2,2-Tetrachloroethane	ND		460		ug/m3			06/29/21 01:51	33.59
1,1,2-Trichloroethane	ND		370		ug/m3			06/29/21 01:51	33.59
1,1,2-Trichlorotrifluoroethane	ND		510		ug/m3			06/29/21 01:51	33.59
1,1-Dichloroethane	ND		270		ug/m3			06/29/21 01:51	33.59
1,1-Dichloroethene	ND		130		ug/m3			06/29/21 01:51	33.59
1,2,4-Trichlorobenzene	ND		500		ug/m3			06/29/21 01:51	33.59
1,2,4-Trimethylbenzene	ND		330		ug/m3			06/29/21 01:51	33.59
1,2-Dibromoethane	ND		520		ug/m3			06/29/21 01:51	33.59
1,2-Dichlorobenzene	ND		400		ug/m3			06/29/21 01:51	33.59
1,2-Dichloroethane	ND		270		ug/m3			06/29/21 01:51	33.59
1,2-Dichloropropane	ND		310		ug/m3			06/29/21 01:51	33.59
1,2-Dichlorotetrafluoroethane	ND		470		ug/m3			06/29/21 01:51	33.59
1,3,5-Trimethylbenzene	ND		330		ug/m3			06/29/21 01:51	33.59
1,3-Dichlorobenzene	ND		400		ug/m3			06/29/21 01:51	33.59
1,4-Dichlorobenzene	ND		400		ug/m3			06/29/21 01:51	33.59
1,4-Dioxane	ND		610		ug/m3			06/29/21 01:51	33.59
2,2,4-Trimethylpentane	ND		780		ug/m3			06/29/21 01:51	33.59
2-Butanone	ND		790		ug/m3			06/29/21 01:51	33.59
4-Methyl-2-pentanone (MIBK)	ND		690		ug/m3			06/29/21 01:51	33.59
Benzene	ND		210		ug/m3			06/29/21 01:51	33.59
Benzyl chloride	ND	*+	700		ug/m3			06/29/21 01:51	33.59
Bromodichloromethane	ND		450		ug/m3			06/29/21 01:51	33.59
Bromoform	ND		690		ug/m3			06/29/21 01:51	33.59
Bromomethane	ND		260		ug/m3			06/29/21 01:51	33.59
Carbon tetrachloride	ND		170		ug/m3			06/29/21 01:51	33.59
Chlorobenzene	ND		310		ug/m3			06/29/21 01:51	33.59
Chloroethane	ND		180		ug/m3			06/29/21 01:51	33.59
Chloroform	ND		330		ug/m3			06/29/21 01:51	33.59
Chloromethane	ND		350		ug/m3			06/29/21 01:51	33.59
cis-1,2-Dichloroethene	**990**		130		ug/m3			06/29/21 01:51	33.59
cis-1,3-Dichloropropene	ND		300		ug/m3			06/29/21 01:51	33.59
Cyclohexane	ND		580		ug/m3			06/29/21 01:51	33.59
Dibromochloromethane	ND		570		ug/m3			06/29/21 01:51	33.59
Dichlorodifluoromethane	ND		330		ug/m3			06/29/21 01:51	33.59
Ethanol	ND		3200		ug/m3			06/29/21 01:51	33.59
Ethylbenzene	ND		290		ug/m3			06/29/21 01:51	33.59
Hexachlorobutadiene	ND		720		ug/m3			06/29/21 01:51	33.59
Hexane	ND		590		ug/m3			06/29/21 01:51	33.59
Methyl tert-butyl ether	ND		480		ug/m3			06/29/21 01:51	33.59
Methylene Chloride	ND		1200		ug/m3			06/29/21 01:51	33.59
m-Xylene & p-Xylene	ND		290		ug/m3			06/29/21 01:51	33.59

Client Sample ID: HSVE SHALLOW
Lab Sample ID: 140-23523-1

Date Collected: 06/15/21 02:42
Matrix: Air
Date Received: 06/18/21 09:10
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		880		ug/m3			06/29/21 01:51	33.59
o-Xylene	ND		290		ug/m3			06/29/21 01:51	33.59
Styrene	ND		290		ug/m3			06/29/21 01:51	33.59
t-Butyl alcohol	ND		810		ug/m3			06/29/21 01:51	33.59
Tetrachloroethene	ND		460		ug/m3			06/29/21 01:51	33.59
Toluene	ND		380		ug/m3			06/29/21 01:51	33.59
trans-1,2-Dichloroethene	**310**		270		ug/m3			06/29/21 01:51	33.59
trans-1,3-Dichloropropene	ND		300		ug/m3			06/29/21 01:51	33.59
Trichloroethene	**26000**		160		ug/m3			06/29/21 01:51	33.59
Trichlorofluoromethane	ND		380		ug/m3			06/29/21 01:51	33.59
Vinyl chloride	ND		86		ug/m3			06/29/21 01:51	33.59

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*		*06/29/21 01:51*	*33.59*

Client Sample ID: HSVE DEEP
Lab Sample ID: 140-23523-2

Date Collected: 06/15/21 04:59
Matrix: Air
Date Received: 06/18/21 09:10
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.79**		0.57		ppb v/v			06/30/21 17:53	1
1,1,2,2-Tetrachloroethane	ND		0.57		ppb v/v			06/30/21 17:53	1
1,1,2-Trichloroethane	ND		0.57		ppb v/v			06/30/21 17:53	1
1,1,2-Trichlorotrifluoroethane	ND		0.57		ppb v/v			06/30/21 17:53	1
1,1-Dichloroethane	ND		0.57		ppb v/v			06/30/21 17:53	1
1,1-Dichloroethene	ND		0.29		ppb v/v			06/30/21 17:53	1
1,2,4-Trichlorobenzene	ND		0.57		ppb v/v			06/30/21 17:53	1
1,2,4-Trimethylbenzene	ND	*+	0.57		ppb v/v			06/30/21 17:53	1
1,2-Dibromoethane	ND		0.57		ppb v/v			06/30/21 17:53	1
1,2-Dichlorobenzene	ND		0.57		ppb v/v			06/30/21 17:53	1
1,2-Dichloroethane	ND		0.57		ppb v/v			06/30/21 17:53	1
1,2-Dichloropropane	ND		0.57		ppb v/v			06/30/21 17:53	1
1,2-Dichlorotetrafluoroethane	ND		0.57		ppb v/v			06/30/21 17:53	1
1,3,5-Trimethylbenzene	ND		0.57		ppb v/v			06/30/21 17:53	1
1,3-Dichlorobenzene	**1.1**		0.57		ppb v/v			06/30/21 17:53	1
1,4-Dichlorobenzene	ND		0.57		ppb v/v			06/30/21 17:53	1
1,4-Dioxane	ND		1.4		ppb v/v			06/30/21 17:53	1
2,2,4-Trimethylpentane	ND		1.4		ppb v/v			06/30/21 17:53	1
2-Butanone	ND		2.3		ppb v/v			06/30/21 17:53	1
4-Methyl-2-pentanone (MIBK)	ND		1.4		ppb v/v			06/30/21 17:53	1
Benzene	ND		0.57		ppb v/v			06/30/21 17:53	1
Benzyl chloride	ND	*+	1.1		ppb v/v			06/30/21 17:53	1
Bromodichloromethane	ND		0.57		ppb v/v			06/30/21 17:53	1
Bromoform	ND		0.57		ppb v/v			06/30/21 17:53	1
Bromomethane	ND		0.57		ppb v/v			06/30/21 17:53	1
Carbon tetrachloride	ND	*+	0.23		ppb v/v			06/30/21 17:53	1
Chlorobenzene	ND		0.57		ppb v/v			06/30/21 17:53	1

Client Sample ID: HSVE DEEP
Lab Sample ID: 140-23523-2

Date Collected: 06/15/21 04:59
Matrix: Air
Date Received: 06/18/21 09:10
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.57		ppb v/v			06/30/21 17:53	1
Chloroform	ND		0.57		ppb v/v			06/30/21 17:53	1
Chloromethane	ND		1.4		ppb v/v			06/30/21 17:53	1
cis-1,2-Dichloroethene	**9.2**		0.29		ppb v/v			06/30/21 17:53	1
cis-1,3-Dichloropropene	ND		0.57		ppb v/v			06/30/21 17:53	1
Cyclohexane	ND		1.4		ppb v/v			06/30/21 17:53	1
Dibromochloromethane	ND		0.57		ppb v/v			06/30/21 17:53	1
Dichlorodifluoromethane	**0.60**		0.57		ppb v/v			06/30/21 17:53	1
Ethanol	**18**		14		ppb v/v			06/30/21 17:53	1
Ethylbenzene	ND		0.57		ppb v/v			06/30/21 17:53	1
Hexachlorobutadiene	ND		0.57		ppb v/v			06/30/21 17:53	1
Hexane	ND		1.4		ppb v/v			06/30/21 17:53	1
Methyl tert-butyl ether	ND		1.1		ppb v/v			06/30/21 17:53	1
Methylene Chloride	ND		2.9		ppb v/v			06/30/21 17:53	1
m-Xylene & p-Xylene	**0.61**		0.57		ppb v/v			06/30/21 17:53	1
Naphthalene	ND		1.4		ppb v/v			06/30/21 17:53	1
o-Xylene	ND		0.57		ppb v/v			06/30/21 17:53	1
Styrene	ND		0.57		ppb v/v			06/30/21 17:53	1
t-Butyl alcohol	ND		2.3		ppb v/v			06/30/21 17:53	1
Tetrachloroethene	ND		0.57		ppb v/v			06/30/21 17:53	1
Toluene	ND		0.86		ppb v/v			06/30/21 17:53	1
trans-1,2-Dichloroethene	**1.1**		0.57		ppb v/v			06/30/21 17:53	1
trans-1,3-Dichloropropene	ND		0.57		ppb v/v			06/30/21 17:53	1
Trichloroethene	**43**		0.26		ppb v/v			06/30/21 17:53	1
Trichlorofluoromethane	ND		0.57		ppb v/v			06/30/21 17:53	1
Vinyl chloride	ND		0.29		ppb v/v			06/30/21 17:53	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**4.3**		3.1		ug/m3			06/30/21 17:53	1
1,1,2,2-Tetrachloroethane	ND		3.9		ug/m3			06/30/21 17:53	1
1,1,2-Trichloroethane	ND		3.1		ug/m3			06/30/21 17:53	1
1,1,2-Trichlorotrifluoroethane	ND		4.4		ug/m3			06/30/21 17:53	1
1,1-Dichloroethane	ND		2.3		ug/m3			06/30/21 17:53	1
1,1-Dichloroethene	ND		1.1		ug/m3			06/30/21 17:53	1
1,2,4-Trichlorobenzene	ND		4.2		ug/m3			06/30/21 17:53	1
1,2,4-Trimethylbenzene	ND	*+	2.8		ug/m3			06/30/21 17:53	1
1,2-Dibromoethane	ND		4.4		ug/m3			06/30/21 17:53	1
1,2-Dichlorobenzene	ND		3.4		ug/m3			06/30/21 17:53	1
1,2-Dichloroethane	ND		2.3		ug/m3			06/30/21 17:53	1
1,2-Dichloropropane	ND		2.6		ug/m3			06/30/21 17:53	1
1,2-Dichlorotetrafluoroethane	ND		4.0		ug/m3			06/30/21 17:53	1
1,3,5-Trimethylbenzene	ND		2.8		ug/m3			06/30/21 17:53	1
1,3-Dichlorobenzene	**6.5**		3.4		ug/m3			06/30/21 17:53	1
1,4-Dichlorobenzene	ND		3.4		ug/m3			06/30/21 17:53	1
1,4-Dioxane	ND		5.1		ug/m3			06/30/21 17:53	1
2,2,4-Trimethylpentane	ND		6.7		ug/m3			06/30/21 17:53	1
2-Butanone	ND		6.7		ug/m3			06/30/21 17:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.9		ug/m3			06/30/21 17:53	1
Benzene	ND		1.8		ug/m3			06/30/21 17:53	1

Client Sample ID: HSVE DEEP
Lab Sample ID: 140-23523-2

Date Collected: 06/15/21 04:59
Matrix: Air
Date Received: 06/18/21 09:10
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl chloride	ND	*+	5.9		ug/m3			06/30/21 17:53	1
Bromodichloromethane	ND		3.8		ug/m3			06/30/21 17:53	1
Bromoform	ND		5.9		ug/m3			06/30/21 17:53	1
Bromomethane	ND		2.2		ug/m3			06/30/21 17:53	1
Carbon tetrachloride	ND	*+	1.4		ug/m3			06/30/21 17:53	1
Chlorobenzene	ND		2.6		ug/m3			06/30/21 17:53	1
Chloroethane	ND		1.5		ug/m3			06/30/21 17:53	1
Chloroform	ND		2.8		ug/m3			06/30/21 17:53	1
Chloromethane	ND		3.0		ug/m3			06/30/21 17:53	1
cis-1,2-Dichloroethene	**36**		1.1		ug/m3			06/30/21 17:53	1
cis-1,3-Dichloropropene	ND		2.6		ug/m3			06/30/21 17:53	1
Cyclohexane	ND		4.9		ug/m3			06/30/21 17:53	1
Dibromochloromethane	ND		4.9		ug/m3			06/30/21 17:53	1
Dichlorodifluoromethane	**3.0**		2.8		ug/m3			06/30/21 17:53	1
Ethanol	**34**		27		ug/m3			06/30/21 17:53	1
Ethylbenzene	ND		2.5		ug/m3			06/30/21 17:53	1
Hexachlorobutadiene	ND		6.1		ug/m3			06/30/21 17:53	1
Hexane	ND		5.0		ug/m3			06/30/21 17:53	1
Methyl tert-butyl ether	ND		4.1		ug/m3			06/30/21 17:53	1
Methylene Chloride	ND		9.9		ug/m3			06/30/21 17:53	1
m-Xylene & p-Xylene	**2.7**		2.5		ug/m3			06/30/21 17:53	1
Naphthalene	ND		7.5		ug/m3			06/30/21 17:53	1
o-Xylene	ND		2.5		ug/m3			06/30/21 17:53	1
Styrene	ND		2.4		ug/m3			06/30/21 17:53	1
t-Butyl alcohol	ND		6.9		ug/m3			06/30/21 17:53	1
Tetrachloroethene	ND		3.9		ug/m3			06/30/21 17:53	1
Toluene	ND		3.2		ug/m3			06/30/21 17:53	1
trans-1,2-Dichloroethene	**4.4**		2.3		ug/m3			06/30/21 17:53	1
trans-1,3-Dichloropropene	ND		2.6		ug/m3			06/30/21 17:53	1
Trichloroethene	**230**		1.4		ug/m3			06/30/21 17:53	1
Trichlorofluoromethane	ND		3.2		ug/m3			06/30/21 17:53	1
Vinyl chloride	ND		0.73		ug/m3			06/30/21 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*06/30/21 17:53*	*1*

Client Sample ID: SVE - 1
Lab Sample ID: 140-23523-3

Date Collected: 06/16/21 10:12
Matrix: Air
Date Received: 06/18/21 09:10
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**79**		38		ppb v/v			06/30/21 03:29	37.59
1,1,2,2-Tetrachloroethane	ND		38		ppb v/v			06/30/21 03:29	37.59
1,1,2-Trichloroethane	ND		38		ppb v/v			06/30/21 03:29	37.59
1,1,2-Trichlorotrifluoroethane	ND		38		ppb v/v			06/30/21 03:29	37.59
1,1-Dichloroethane	ND		38		ppb v/v			06/30/21 03:29	37.59
1,1-Dichloroethene	ND		19		ppb v/v			06/30/21 03:29	37.59

Client Sample ID: SVE - 1
Lab Sample ID: 140-23523-3

Date Collected: 06/16/21 10:12
Matrix: Air
Date Received: 06/18/21 09:10
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		38		ppb v/v			06/30/21 03:29	37.59
1,2,4-Trimethylbenzene	ND		38		ppb v/v			06/30/21 03:29	37.59
1,2-Dibromoethane	ND		38		ppb v/v			06/30/21 03:29	37.59
1,2-Dichlorobenzene	ND		38		ppb v/v			06/30/21 03:29	37.59
1,2-Dichloroethane	ND		38		ppb v/v			06/30/21 03:29	37.59
1,2-Dichloropropane	ND		38		ppb v/v			06/30/21 03:29	37.59
1,2-Dichlorotetrafluoroethane	ND		38		ppb v/v			06/30/21 03:29	37.59
1,3,5-Trimethylbenzene	ND		38		ppb v/v			06/30/21 03:29	37.59
1,3-Dichlorobenzene	ND		38		ppb v/v			06/30/21 03:29	37.59
1,4-Dichlorobenzene	ND		38		ppb v/v			06/30/21 03:29	37.59
1,4-Dioxane	ND		94		ppb v/v			06/30/21 03:29	37.59
2,2,4-Trimethylpentane	ND		94		ppb v/v			06/30/21 03:29	37.59
2-Butanone	ND		150		ppb v/v			06/30/21 03:29	37.59
4-Methyl-2-pentanone (MIBK)	ND		94		ppb v/v			06/30/21 03:29	37.59
Benzene	ND		38		ppb v/v			06/30/21 03:29	37.59
Benzyl chloride	ND		75		ppb v/v			06/30/21 03:29	37.59
Bromodichloromethane	ND		38		ppb v/v			06/30/21 03:29	37.59
Bromoform	ND		38		ppb v/v			06/30/21 03:29	37.59
Bromomethane	ND		38		ppb v/v			06/30/21 03:29	37.59
Carbon tetrachloride	ND		15		ppb v/v			06/30/21 03:29	37.59
Chlorobenzene	ND		38		ppb v/v			06/30/21 03:29	37.59
Chloroethane	ND		38		ppb v/v			06/30/21 03:29	37.59
Chloroform	ND		38		ppb v/v			06/30/21 03:29	37.59
Chloromethane	ND		94		ppb v/v			06/30/21 03:29	37.59
cis-1,2-Dichloroethene	**180**		19		ppb v/v			06/30/21 03:29	37.59
cis-1,3-Dichloropropene	ND		38		ppb v/v			06/30/21 03:29	37.59
Cyclohexane	ND		94		ppb v/v			06/30/21 03:29	37.59
Dibromochloromethane	ND		38		ppb v/v			06/30/21 03:29	37.59
Dichlorodifluoromethane	ND		38		ppb v/v			06/30/21 03:29	37.59
Ethanol	ND		940		ppb v/v			06/30/21 03:29	37.59
Ethylbenzene	ND		38		ppb v/v			06/30/21 03:29	37.59
Hexachlorobutadiene	ND		38		ppb v/v			06/30/21 03:29	37.59
Hexane	ND		94		ppb v/v			06/30/21 03:29	37.59
Methyl tert-butyl ether	ND		75		ppb v/v			06/30/21 03:29	37.59
Methylene Chloride	ND		190		ppb v/v			06/30/21 03:29	37.59
m-Xylene & p-Xylene	ND		38		ppb v/v			06/30/21 03:29	37.59
Naphthalene	ND		94		ppb v/v			06/30/21 03:29	37.59
o-Xylene	ND		38		ppb v/v			06/30/21 03:29	37.59
Styrene	ND		38		ppb v/v			06/30/21 03:29	37.59
t-Butyl alcohol	ND		150		ppb v/v			06/30/21 03:29	37.59
Tetrachloroethene	ND		38		ppb v/v			06/30/21 03:29	37.59
Toluene	ND		56		ppb v/v			06/30/21 03:29	37.59
trans-1,2-Dichloroethene	ND		38		ppb v/v			06/30/21 03:29	37.59
trans-1,3-Dichloropropene	ND		38		ppb v/v			06/30/21 03:29	37.59
Trichloroethene	**3300**		17		ppb v/v			06/30/21 03:29	37.59
Trichlorofluoromethane	ND		38		ppb v/v			06/30/21 03:29	37.59
Vinyl chloride	ND		19		ppb v/v			06/30/21 03:29	37.59

Client Sample ID: SVE - 1
Lab Sample ID: 140-23523-3

Date Collected: 06/16/21 10:12
Matrix: Air
Date Received: 06/18/21 09:10
Sample Container: Summa Canister 6L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**430**		210		ug/m3			06/30/21 03:29	37.59
1,1,2,2-Tetrachloroethane	ND		260		ug/m3			06/30/21 03:29	37.59
1,1,2-Trichloroethane	ND		210		ug/m3			06/30/21 03:29	37.59
1,1,2-Trichlorotrifluoroethane	ND		290		ug/m3			06/30/21 03:29	37.59
1,1-Dichloroethane	ND		150		ug/m3			06/30/21 03:29	37.59
1,1-Dichloroethene	ND		75		ug/m3			06/30/21 03:29	37.59
1,2,4-Trichlorobenzene	ND		280		ug/m3			06/30/21 03:29	37.59
1,2,4-Trimethylbenzene	ND		180		ug/m3			06/30/21 03:29	37.59
1,2-Dibromoethane	ND		290		ug/m3			06/30/21 03:29	37.59
1,2-Dichlorobenzene	ND		230		ug/m3			06/30/21 03:29	37.59
1,2-Dichloroethane	ND		150		ug/m3			06/30/21 03:29	37.59
1,2-Dichloropropane	ND		170		ug/m3			06/30/21 03:29	37.59
1,2-Dichlorotetrafluoroethane	ND		260		ug/m3			06/30/21 03:29	37.59
1,3,5-Trimethylbenzene	ND		180		ug/m3			06/30/21 03:29	37.59
1,3-Dichlorobenzene	ND		230		ug/m3			06/30/21 03:29	37.59
1,4-Dichlorobenzene	ND		230		ug/m3			06/30/21 03:29	37.59
1,4-Dioxane	ND		340		ug/m3			06/30/21 03:29	37.59
2,2,4-Trimethylpentane	ND		440		ug/m3			06/30/21 03:29	37.59
2-Butanone	ND		440		ug/m3			06/30/21 03:29	37.59
4-Methyl-2-pentanone (MIBK)	ND		380		ug/m3			06/30/21 03:29	37.59
Benzene	ND		120		ug/m3			06/30/21 03:29	37.59
Benzyl chloride	ND		390		ug/m3			06/30/21 03:29	37.59
Bromodichloromethane	ND		250		ug/m3			06/30/21 03:29	37.59
Bromoform	ND		390		ug/m3			06/30/21 03:29	37.59
Bromomethane	ND		150		ug/m3			06/30/21 03:29	37.59
Carbon tetrachloride	ND		95		ug/m3			06/30/21 03:29	37.59
Chlorobenzene	ND		170		ug/m3			06/30/21 03:29	37.59
Chloroethane	ND		99		ug/m3			06/30/21 03:29	37.59
Chloroform	ND		180		ug/m3			06/30/21 03:29	37.59
Chloromethane	ND		190		ug/m3			06/30/21 03:29	37.59
cis-1,2-Dichloroethene	**720**		75		ug/m3			06/30/21 03:29	37.59
cis-1,3-Dichloropropene	ND		170		ug/m3			06/30/21 03:29	37.59
Cyclohexane	ND		320		ug/m3			06/30/21 03:29	37.59
Dibromochloromethane	ND		320		ug/m3			06/30/21 03:29	37.59
Dichlorodifluoromethane	ND		190		ug/m3			06/30/21 03:29	37.59
Ethanol	ND		1800		ug/m3			06/30/21 03:29	37.59
Ethylbenzene	ND		160		ug/m3			06/30/21 03:29	37.59
Hexachlorobutadiene	ND		400		ug/m3			06/30/21 03:29	37.59
Hexane	ND		330		ug/m3			06/30/21 03:29	37.59
Methyl tert-butyl ether	ND		270		ug/m3			06/30/21 03:29	37.59
Methylene Chloride	ND		650		ug/m3			06/30/21 03:29	37.59
m-Xylene & p-Xylene	ND		160		ug/m3			06/30/21 03:29	37.59
Naphthalene	ND		490		ug/m3			06/30/21 03:29	37.59
o-Xylene	ND		160		ug/m3			06/30/21 03:29	37.59
Styrene	ND		160		ug/m3			06/30/21 03:29	37.59
t-Butyl alcohol	ND		460		ug/m3			06/30/21 03:29	37.59
Tetrachloroethene	ND		250		ug/m3			06/30/21 03:29	37.59
Toluene	ND		210		ug/m3			06/30/21 03:29	37.59
trans-1,2-Dichloroethene	ND		150		ug/m3			06/30/21 03:29	37.59

Client Sample ID: SVE - 1 Lab Sample ID: 140-23523-3

Date Collected: 06/16/21 10:12 **Matrix: Air**
Date Received: 06/18/21 09:10
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		170		ug/m3			06/30/21 03:29	37.59
Trichloroethene	**18000**		91		ug/m3			06/30/21 03:29	37.59
Trichlorofluoromethane	ND		210		ug/m3			06/30/21 03:29	37.59
Vinyl chloride	ND		48		ug/m3			06/30/21 03:29	37.59

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*06/30/21 03:29*	*37.59*

Default Detection Limits

Client: New York State D.E.C. Job ID: 140-23523-1
Project/Site: Former Raeco Products 828107

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	RL	MDL	Units
1,1,1-Trichloroethane	0.080	0.037	ppb v/v
1,1,1-Trichloroethane	0.44	0.20	ug/m3
1,1,2,2-Tetrachloroethane	0.080	0.014	ppb v/v
1,1,2,2-Tetrachloroethane	0.55	0.096	ug/m3
1,1,2-Trichloroethane	0.080	0.0070	ppb v/v
1,1,2-Trichloroethane	0.44	0.038	ug/m3
1,1,2-Trichlorotrifluoroethane	0.080	0.0080	ppb v/v
1,1,2-Trichlorotrifluoroethane	0.61	0.061	ug/m3
1,1-Dichloroethane	0.080	0.0070	ppb v/v
1,1-Dichloroethane	0.32	0.028	ug/m3
1,1-Dichloroethene	0.040	0.0080	ppb v/v
1,1-Dichloroethene	0.16	0.032	ug/m3
1,2,4-Trichlorobenzene	0.080	0.064	ppb v/v
1,2,4-Trichlorobenzene	0.59	0.47	ug/m3
1,2,4-Trimethylbenzene	0.080	0.020	ppb v/v
1,2,4-Trimethylbenzene	0.39	0.098	ug/m3
1,2-Dibromoethane	0.080	0.0070	ppb v/v
1,2-Dibromoethane	0.61	0.054	ug/m3
1,2-Dichlorobenzene	0.080	0.031	ppb v/v
1,2-Dichlorobenzene	0.48	0.19	ug/m3
1,2-Dichloroethane	0.080	0.010	ppb v/v
1,2-Dichloroethane	0.32	0.040	ug/m3
1,2-Dichloropropane	0.080	0.010	ppb v/v
1,2-Dichloropropane	0.37	0.046	ug/m3
1,2-Dichlorotetrafluoroethane	0.080	0.012	ppb v/v
1,2-Dichlorotetrafluoroethane	0.56	0.084	ug/m3
1,3,5-Trimethylbenzene	0.080	0.022	ppb v/v
1,3,5-Trimethylbenzene	0.39	0.11	ug/m3
1,3-Dichlorobenzene	0.080	0.016	ppb v/v
1,3-Dichlorobenzene	0.48	0.096	ug/m3
1,4-Dichlorobenzene	0.080	0.016	ppb v/v
1,4-Dichlorobenzene	0.48	0.096	ug/m3
1,4-Dioxane	0.20	0.030	ppb v/v
1,4-Dioxane	0.72	0.11	ug/m3
2,2,4-Trimethylpentane	0.20	0.0080	ppb v/v
2,2,4-Trimethylpentane	0.93	0.037	ug/m3
2-Butanone	0.32	0.073	ppb v/v
2-Butanone	0.94	0.22	ug/m3
4-Methyl-2-pentanone (MIBK)	0.20	0.054	ppb v/v
4-Methyl-2-pentanone (MIBK)	0.82	0.22	ug/m3
Benzene	0.080	0.0080	ppb v/v
Benzene	0.26	0.026	ug/m3
Benzyl chloride	0.16	0.038	ppb v/v
Benzyl chloride	0.83	0.20	ug/m3
Bromodichloromethane	0.080	0.018	ppb v/v
Bromodichloromethane	0.54	0.12	ug/m3
Bromoform	0.080	0.0090	ppb v/v
Bromoform	0.83	0.093	ug/m3
Bromomethane	0.080	0.022	ppb v/v
Bromomethane	0.31	0.085	ug/m3
Carbon tetrachloride	0.032	0.0070	ppb v/v
Carbon tetrachloride	0.20	0.044	ug/m3
Chlorobenzene	0.080	0.0060	ppb v/v

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Conti

Analyte	RL	MDL	Units
Chlorobenzene	0.37	0.028	ug/m3
Chloroethane	0.080	0.029	ppb v/v
Chloroethane	0.21	0.077	ug/m3
Chloroform	0.080	0.0070	ppb v/v
Chloroform	0.39	0.034	ug/m3
Chloromethane	0.20	0.066	ppb v/v
Chloromethane	0.41	0.14	ug/m3
cis-1,2-Dichloroethene	0.040	0.010	ppb v/v
cis-1,2-Dichloroethene	0.16	0.040	ug/m3
cis-1,3-Dichloropropene	0.080	0.016	ppb v/v
cis-1,3-Dichloropropene	0.36	0.073	ug/m3
Cyclohexane	0.20	0.023	ppb v/v
Cyclohexane	0.69	0.079	ug/m3
Dibromochloromethane	0.080	0.0070	ppb v/v
Dibromochloromethane	0.68	0.060	ug/m3
Dichlorodifluoromethane	0.080	0.014	ppb v/v
Dichlorodifluoromethane	0.40	0.069	ug/m3
Ethanol	2.0	0.87	ppb v/v
Ethanol	3.8	1.6	ug/m3
Ethylbenzene	0.080	0.013	ppb v/v
Ethylbenzene	0.35	0.056	ug/m3
Hexachlorobutadiene	0.080	0.032	ppb v/v
Hexachlorobutadiene	0.85	0.34	ug/m3
Hexane	0.20	0.013	ppb v/v
Hexane	0.70	0.046	ug/m3
Methyl tert-butyl ether	0.16	0.052	ppb v/v
Methyl tert-butyl ether	0.58	0.19	ug/m3
Methylene Chloride	0.40	0.39	ppb v/v
Methylene Chloride	1.4	1.4	ug/m3
m-Xylene & p-Xylene	0.080	0.029	ppb v/v
m-Xylene & p-Xylene	0.35	0.13	ug/m3
Naphthalene	0.20	0.076	ppb v/v
Naphthalene	1.0	0.40	ug/m3
o-Xylene	0.080	0.015	ppb v/v
o-Xylene	0.35	0.065	ug/m3
Styrene	0.080	0.024	ppb v/v
Styrene	0.34	0.10	ug/m3
t-Butyl alcohol	0.32	0.033	ppb v/v
t-Butyl alcohol	0.97	0.10	ug/m3
Tetrachloroethene	0.080	0.0070	ppb v/v
Tetrachloroethene	0.54	0.047	ug/m3
Toluene	0.12	0.078	ppb v/v
Toluene	0.45	0.29	ug/m3
trans-1,2-Dichloroethene	0.080	0.0070	ppb v/v
trans-1,2-Dichloroethene	0.32	0.028	ug/m3
trans-1,3-Dichloropropene	0.080	0.0090	ppb v/v
trans-1,3-Dichloropropene	0.36	0.041	ug/m3
Trichloroethene	0.036	0.013	ppb v/v
Trichloroethene	0.19	0.070	ug/m3
Trichlorofluoromethane	0.080	0.011	ppb v/v
Trichlorofluoromethane	0.45	0.062	ug/m3
Vinyl chloride	0.040	0.026	ppb v/v
Vinyl chloride	0.10	0.066	ug/m3

Surrogate Summary

Client: New York State D.E.C.
Job ID: 140-23523-1
Project/Site: Former Raeco Products 828107

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Matrix: Air
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		BFB
Lab Sample ID	Client Sample ID	(60-140)
140-23523-1	HSVE SHALLOW	100
140-23523-2	HSVE DEEP	103
140-23523-3	SVE - 1	93
LCS 140-51274/1002	Lab Control Sample	114
LCS 140-51283/1002	Lab Control Sample	103
LCS 140-51316/1002	Lab Control Sample	112
MB 140-51274/8	Method Blank	97
MB 140-51283/4	Method Blank	93
MB 140-51316/4	Method Blank	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Lab Sample ID: MB 140-51274/8
Matrix: Air
Analysis Batch: 51274

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			06/28/21 11:54	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			06/28/21 11:54	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			06/28/21 11:54	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			06/28/21 11:54	1
1,1-Dichloroethane	ND		0.080		ppb v/v			06/28/21 11:54	1
1,1-Dichloroethene	ND		0.040		ppb v/v			06/28/21 11:54	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			06/28/21 11:54	1
1,2,4-Trimethylbenzene	ND		0.080		ppb v/v			06/28/21 11:54	1
1,2-Dibromoethane	ND		0.080		ppb v/v			06/28/21 11:54	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			06/28/21 11:54	1
1,2-Dichloroethane	ND		0.080		ppb v/v			06/28/21 11:54	1
1,2-Dichloropropane	ND		0.080		ppb v/v			06/28/21 11:54	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			06/28/21 11:54	1
1,3,5-Trimethylbenzene	ND		0.080		ppb v/v			06/28/21 11:54	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			06/28/21 11:54	1
1,4-Dichlorobenzene	ND		0.080		ppb v/v			06/28/21 11:54	1
1,4-Dioxane	ND		0.20		ppb v/v			06/28/21 11:54	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			06/28/21 11:54	1
2-Butanone	ND		0.32		ppb v/v			06/28/21 11:54	1
4-Methyl-2-pentanone (MIBK)	ND		0.20		ppb v/v			06/28/21 11:54	1
Benzene	ND		0.080		ppb v/v			06/28/21 11:54	1
Benzyl chloride	ND		0.16		ppb v/v			06/28/21 11:54	1
Bromodichloromethane	ND		0.080		ppb v/v			06/28/21 11:54	1
Bromoform	ND		0.080		ppb v/v			06/28/21 11:54	1
Bromomethane	ND		0.080		ppb v/v			06/28/21 11:54	1
Carbon tetrachloride	ND		0.032		ppb v/v			06/28/21 11:54	1
Chlorobenzene	ND		0.080		ppb v/v			06/28/21 11:54	1
Chloroethane	ND		0.080		ppb v/v			06/28/21 11:54	1
Chloroform	ND		0.080		ppb v/v			06/28/21 11:54	1
Chloromethane	ND		0.20		ppb v/v			06/28/21 11:54	1
cis-1,2-Dichloroethene	ND		0.040		ppb v/v			06/28/21 11:54	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			06/28/21 11:54	1
Cyclohexane	ND		0.20		ppb v/v			06/28/21 11:54	1
Dibromochloromethane	ND		0.080		ppb v/v			06/28/21 11:54	1
Dichlorodifluoromethane	ND		0.080		ppb v/v			06/28/21 11:54	1
Ethanol	ND		2.0		ppb v/v			06/28/21 11:54	1
Ethylbenzene	ND		0.080		ppb v/v			06/28/21 11:54	1
Hexachlorobutadiene	ND		0.080		ppb v/v			06/28/21 11:54	1
Hexane	ND		0.20		ppb v/v			06/28/21 11:54	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			06/28/21 11:54	1
Methylene Chloride	ND		0.40		ppb v/v			06/28/21 11:54	1
m-Xylene & p-Xylene	ND		0.080		ppb v/v			06/28/21 11:54	1
Naphthalene	ND		0.20		ppb v/v			06/28/21 11:54	1
o-Xylene	ND		0.080		ppb v/v			06/28/21 11:54	1
Styrene	ND		0.080		ppb v/v			06/28/21 11:54	1
t-Butyl alcohol	ND		0.32		ppb v/v			06/28/21 11:54	1
Tetrachloroethene	ND		0.080		ppb v/v			06/28/21 11:54	1
Toluene	ND		0.12		ppb v/v			06/28/21 11:54	1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: MB 140-51274/8
Matrix: Air
Analysis Batch: 51274

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			06/28/21 11:54	1
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			06/28/21 11:54	1
Trichloroethene	ND		0.036		ppb v/v			06/28/21 11:54	1
Trichlorofluoromethane	ND		0.080		ppb v/v			06/28/21 11:54	1
Vinyl chloride	ND		0.040		ppb v/v			06/28/21 11:54	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			06/28/21 11:54	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			06/28/21 11:54	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			06/28/21 11:54	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			06/28/21 11:54	1
1,1-Dichloroethane	ND		0.32		ug/m3			06/28/21 11:54	1
1,1-Dichloroethene	ND		0.16		ug/m3			06/28/21 11:54	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			06/28/21 11:54	1
1,2,4-Trimethylbenzene	ND		0.39		ug/m3			06/28/21 11:54	1
1,2-Dibromoethane	ND		0.61		ug/m3			06/28/21 11:54	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			06/28/21 11:54	1
1,2-Dichloroethane	ND		0.32		ug/m3			06/28/21 11:54	1
1,2-Dichloropropane	ND		0.37		ug/m3			06/28/21 11:54	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			06/28/21 11:54	1
1,3,5-Trimethylbenzene	ND		0.39		ug/m3			06/28/21 11:54	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			06/28/21 11:54	1
1,4-Dichlorobenzene	ND		0.48		ug/m3			06/28/21 11:54	1
1,4-Dioxane	ND		0.72		ug/m3			06/28/21 11:54	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			06/28/21 11:54	1
2-Butanone	ND		0.94		ug/m3			06/28/21 11:54	1
4-Methyl-2-pentanone (MIBK)	ND		0.82		ug/m3			06/28/21 11:54	1
Benzene	ND		0.26		ug/m3			06/28/21 11:54	1
Benzyl chloride	ND		0.83		ug/m3			06/28/21 11:54	1
Bromodichloromethane	ND		0.54		ug/m3			06/28/21 11:54	1
Bromoform	ND		0.83		ug/m3			06/28/21 11:54	1
Bromomethane	ND		0.31		ug/m3			06/28/21 11:54	1
Carbon tetrachloride	ND		0.20		ug/m3			06/28/21 11:54	1
Chlorobenzene	ND		0.37		ug/m3			06/28/21 11:54	1
Chloroethane	ND		0.21		ug/m3			06/28/21 11:54	1
Chloroform	ND		0.39		ug/m3			06/28/21 11:54	1
Chloromethane	ND		0.41		ug/m3			06/28/21 11:54	1
cis-1,2-Dichloroethene	ND		0.16		ug/m3			06/28/21 11:54	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			06/28/21 11:54	1
Cyclohexane	ND		0.69		ug/m3			06/28/21 11:54	1
Dibromochloromethane	ND		0.68		ug/m3			06/28/21 11:54	1
Dichlorodifluoromethane	ND		0.40		ug/m3			06/28/21 11:54	1
Ethanol	ND		3.8		ug/m3			06/28/21 11:54	1
Ethylbenzene	ND		0.35		ug/m3			06/28/21 11:54	1
Hexachlorobutadiene	ND		0.85		ug/m3			06/28/21 11:54	1
Hexane	ND		0.70		ug/m3			06/28/21 11:54	1
Methyl tert-butyl ether	ND		0.58		ug/m3			06/28/21 11:54	1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: MB 140-51274/8
Matrix: Air
Analysis Batch: 51274

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.4		ug/m3			06/28/21 11:54	1
m-Xylene & p-Xylene	ND		0.35		ug/m3			06/28/21 11:54	1
Naphthalene	ND		1.0		ug/m3			06/28/21 11:54	1
o-Xylene	ND		0.35		ug/m3			06/28/21 11:54	1
Styrene	ND		0.34		ug/m3			06/28/21 11:54	1
t-Butyl alcohol	ND		0.97		ug/m3			06/28/21 11:54	1
Tetrachloroethene	ND		0.54		ug/m3			06/28/21 11:54	1
Toluene	ND		0.45		ug/m3			06/28/21 11:54	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			06/28/21 11:54	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			06/28/21 11:54	1
Trichloroethene	ND		0.19		ug/m3			06/28/21 11:54	1
Trichlorofluoromethane	ND		0.45		ug/m3			06/28/21 11:54	1
Vinyl chloride	ND		0.10		ug/m3			06/28/21 11:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*06/28/21 11:54*	*1*

Lab Sample ID: LCS 140-51274/1002
Matrix: Air
Analysis Batch: 51274

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.05		ppb v/v		102	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.42		ppb v/v		121	70 - 130
1,1,2-Trichloroethane	2.00	2.23		ppb v/v		111	70 - 130
1,1,2-Trichlorotrifluoroethane	2.00	2.17		ppb v/v		109	70 - 130
1,1-Dichloroethane	2.00	2.15		ppb v/v		108	70 - 130
1,1-Dichloroethene	2.00	1.91		ppb v/v		96	70 - 130
1,2,4-Trichlorobenzene	2.00	1.96		ppb v/v		98	60 - 140
1,2,4-Trimethylbenzene	2.00	2.58		ppb v/v		129	70 - 130
1,2-Dibromoethane	2.00	2.05		ppb v/v		103	70 - 130
1,2-Dichlorobenzene	2.00	2.51		ppb v/v		125	70 - 130
1,2-Dichloroethane	2.00	2.12		ppb v/v		106	70 - 130
1,2-Dichloropropane	2.00	2.22		ppb v/v		111	70 - 130
1,2-Dichlorotetrafluoroethane	2.00	2.45		ppb v/v		122	60 - 140
1,3,5-Trimethylbenzene	2.00	2.35		ppb v/v		117	70 - 130
1,3-Dichlorobenzene	2.00	2.41		ppb v/v		121	70 - 130
1,4-Dichlorobenzene	2.00	2.39		ppb v/v		119	70 - 130
1,4-Dioxane	2.00	2.05		ppb v/v		102	60 - 140
2,2,4-Trimethylpentane	2.00	2.03		ppb v/v		101	70 - 130
2-Butanone	2.00	1.87		ppb v/v		94	60 - 140
4-Methyl-2-pentanone (MIBK)	2.00	2.10		ppb v/v		105	60 - 140
Benzene	2.00	2.14		ppb v/v		107	70 - 130
Benzyl chloride	2.00	2.68	*+	ppb v/v		134	70 - 130
Bromodichloromethane	2.00	2.27		ppb v/v		113	70 - 130
Bromoform	2.00	2.58		ppb v/v		129	60 - 140
Bromomethane	2.00	2.24		ppb v/v		112	70 - 130

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: LCS 140-51274/1002
Matrix: Air
Analysis Batch: 51274

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	2.00	2.43		ppb v/v		122	70 - 130
Chlorobenzene	2.00	2.24		ppb v/v		112	70 - 130
Chloroethane	2.00	1.84		ppb v/v		92	70 - 130
Chloroform	2.00	2.20		ppb v/v		110	70 - 130
Chloromethane	2.00	1.76		ppb v/v		88	60 - 140
cis-1,2-Dichloroethene	2.00	1.93		ppb v/v		97	70 - 130
cis-1,3-Dichloropropene	2.00	2.11		ppb v/v		105	70 - 130
Cyclohexane	2.00	1.89		ppb v/v		95	70 - 130
Dibromochloromethane	2.00	2.32		ppb v/v		116	70 - 130
Dichlorodifluoromethane	2.00	2.21		ppb v/v		111	60 - 140
Ethanol	10.0	10.3		ppb v/v		103	60 - 140
Ethylbenzene	2.00	2.11		ppb v/v		105	70 - 130
Hexachlorobutadiene	2.00	2.23		ppb v/v		112	60 - 140
Hexane	2.00	2.10		ppb v/v		105	70 - 130
Methyl tert-butyl ether	2.00	1.95		ppb v/v		98	60 - 140
Methylene Chloride	2.00	2.18		ppb v/v		109	70 - 130
m-Xylene & p-Xylene	4.00	4.46		ppb v/v		111	70 - 130
Naphthalene	2.00	2.29		ppb v/v		114	60 - 140
o-Xylene	2.00	2.28		ppb v/v		114	70 - 130
Styrene	2.00	2.43		ppb v/v		121	70 - 130
t-Butyl alcohol	2.00	2.14		ppb v/v		107	60 - 140
Tetrachloroethene	2.00	1.94		ppb v/v		97	70 - 130
Toluene	2.00	1.98		ppb v/v		99	70 - 130
trans-1,2-Dichloroethene	2.00	1.98		ppb v/v		99	70 - 130
trans-1,3-Dichloropropene	2.00	2.11		ppb v/v		105	70 - 130
Trichloroethene	2.00	1.92		ppb v/v		96	70 - 130
Trichlorofluoromethane	2.00	2.40		ppb v/v		120	60 - 140
Vinyl chloride	2.00	2.07		ppb v/v		104	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	11.2		ug/m3		102	70 - 130
1,1,2,2-Tetrachloroethane	14	16.6		ug/m3		121	70 - 130
1,1,2-Trichloroethane	11	12.2		ug/m3		111	70 - 130
1,1,2-Trichlorotrifluoroethane	15	16.6		ug/m3		109	70 - 130
1,1-Dichloroethane	8.1	8.70		ug/m3		108	70 - 130
1,1-Dichloroethene	7.9	7.58		ug/m3		96	70 - 130
1,2,4-Trichlorobenzene	15	14.6		ug/m3		98	60 - 140
1,2,4-Trimethylbenzene	9.8	12.7		ug/m3		129	70 - 130
1,2-Dibromoethane	15	15.8		ug/m3		103	70 - 130
1,2-Dichlorobenzene	12	15.1		ug/m3		125	70 - 130
1,2-Dichloroethane	8.1	8.58		ug/m3		106	70 - 130
1,2-Dichloropropane	9.2	10.3		ug/m3		111	70 - 130
1,2-Dichlorotetrafluoroethane	14	17.1		ug/m3		122	60 - 140
1,3,5-Trimethylbenzene	9.8	11.5		ug/m3		117	70 - 130
1,3-Dichlorobenzene	12	14.5		ug/m3		121	70 - 130
1,4-Dichlorobenzene	12	14.3		ug/m3		119	70 - 130
1,4-Dioxane	7.2	7.38		ug/m3		102	60 - 140

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: LCS 140-51274/1002
Matrix: Air
Analysis Batch: 51274

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2,4-Trimethylpentane	9.3	9.48		ug/m3		101	70 - 130
2-Butanone	5.9	5.52		ug/m3		94	60 - 140
4-Methyl-2-pentanone (MIBK)	8.2	8.61		ug/m3		105	60 - 140
Benzene	6.4	6.83		ug/m3		107	70 - 130
Benzyl chloride	10	13.9	*+	ug/m3		134	70 - 130
Bromodichloromethane	13	15.2		ug/m3		113	70 - 130
Bromoform	21	26.6		ug/m3		129	60 - 140
Bromomethane	7.8	8.68		ug/m3		112	70 - 130
Carbon tetrachloride	13	15.3		ug/m3		122	70 - 130
Chlorobenzene	9.2	10.3		ug/m3		112	70 - 130
Chloroethane	5.3	4.86		ug/m3		92	70 - 130
Chloroform	9.8	10.7		ug/m3		110	70 - 130
Chloromethane	4.1	3.63		ug/m3		88	60 - 140
cis-1,2-Dichloroethene	7.9	7.65		ug/m3		97	70 - 130
cis-1,3-Dichloropropene	9.1	9.56		ug/m3		105	70 - 130
Cyclohexane	6.9	6.52		ug/m3		95	70 - 130
Dibromochloromethane	17	19.8		ug/m3		116	70 - 130
Dichlorodifluoromethane	9.9	10.9		ug/m3		111	60 - 140
Ethanol	19	19.5		ug/m3		103	60 - 140
Ethylbenzene	8.7	9.15		ug/m3		105	70 - 130
Hexachlorobutadiene	21	23.8		ug/m3		112	60 - 140
Hexane	7.0	7.38		ug/m3		105	70 - 130
Methyl tert-butyl ether	7.2	7.04		ug/m3		98	60 - 140
Methylene Chloride	6.9	7.57		ug/m3		109	70 - 130
m-Xylene & p-Xylene	17	19.4		ug/m3		111	70 - 130
Naphthalene	10	12.0		ug/m3		114	60 - 140
o-Xylene	8.7	9.92		ug/m3		114	70 - 130
Styrene	8.5	10.3		ug/m3		121	70 - 130
t-Butyl alcohol	6.1	6.49		ug/m3		107	60 - 140
Tetrachloroethene	14	13.2		ug/m3		97	70 - 130
Toluene	7.5	7.45		ug/m3		99	70 - 130
trans-1,2-Dichloroethene	7.9	7.87		ug/m3		99	70 - 130
trans-1,3-Dichloropropene	9.1	9.57		ug/m3		105	70 - 130
Trichloroethene	11	10.3		ug/m3		96	70 - 130
Trichlorofluoromethane	11	13.5		ug/m3		120	60 - 140
Vinyl chloride	5.1	5.30		ug/m3		104	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*60 - 140*

Lab Sample ID: MB 140-51283/4
Matrix: Air
Analysis Batch: 51283

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			06/29/21 09:51	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			06/29/21 09:51	1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: MB 140-51283/4
Matrix: Air
Analysis Batch: 51283

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.080		ppb v/v			06/29/21 09:51	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			06/29/21 09:51	1
1,1-Dichloroethane	ND		0.080		ppb v/v			06/29/21 09:51	1
1,1-Dichloroethene	ND		0.040		ppb v/v			06/29/21 09:51	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			06/29/21 09:51	1
1,2,4-Trimethylbenzene	ND		0.080		ppb v/v			06/29/21 09:51	1
1,2-Dibromoethane	ND		0.080		ppb v/v			06/29/21 09:51	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			06/29/21 09:51	1
1,2-Dichloroethane	ND		0.080		ppb v/v			06/29/21 09:51	1
1,2-Dichloropropane	ND		0.080		ppb v/v			06/29/21 09:51	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			06/29/21 09:51	1
1,3,5-Trimethylbenzene	ND		0.080		ppb v/v			06/29/21 09:51	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			06/29/21 09:51	1
1,4-Dichlorobenzene	ND		0.080		ppb v/v			06/29/21 09:51	1
1,4-Dioxane	ND		0.20		ppb v/v			06/29/21 09:51	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			06/29/21 09:51	1
2-Butanone	ND		0.32		ppb v/v			06/29/21 09:51	1
4-Methyl-2-pentanone (MIBK)	ND		0.20		ppb v/v			06/29/21 09:51	1
Benzene	ND		0.080		ppb v/v			06/29/21 09:51	1
Benzyl chloride	ND		0.16		ppb v/v			06/29/21 09:51	1
Bromodichloromethane	ND		0.080		ppb v/v			06/29/21 09:51	1
Bromoform	ND		0.080		ppb v/v			06/29/21 09:51	1
Bromomethane	ND		0.080		ppb v/v			06/29/21 09:51	1
Carbon tetrachloride	ND		0.032		ppb v/v			06/29/21 09:51	1
Chlorobenzene	ND		0.080		ppb v/v			06/29/21 09:51	1
Chloroethane	ND		0.080		ppb v/v			06/29/21 09:51	1
Chloroform	ND		0.080		ppb v/v			06/29/21 09:51	1
Chloromethane	ND		0.20		ppb v/v			06/29/21 09:51	1
cis-1,2-Dichloroethene	ND		0.040		ppb v/v			06/29/21 09:51	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			06/29/21 09:51	1
Cyclohexane	ND		0.20		ppb v/v			06/29/21 09:51	1
Dibromochloromethane	ND		0.080		ppb v/v			06/29/21 09:51	1
Dichlorodifluoromethane	ND		0.080		ppb v/v			06/29/21 09:51	1
Ethanol	ND		2.0		ppb v/v			06/29/21 09:51	1
Ethylbenzene	ND		0.080		ppb v/v			06/29/21 09:51	1
Hexachlorobutadiene	ND		0.080		ppb v/v			06/29/21 09:51	1
Hexane	ND		0.20		ppb v/v			06/29/21 09:51	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			06/29/21 09:51	1
Methylene Chloride	ND		0.40		ppb v/v			06/29/21 09:51	1
m-Xylene & p-Xylene	ND		0.080		ppb v/v			06/29/21 09:51	1
Naphthalene	ND		0.20		ppb v/v			06/29/21 09:51	1
o-Xylene	ND		0.080		ppb v/v			06/29/21 09:51	1
Styrene	ND		0.080		ppb v/v			06/29/21 09:51	1
t-Butyl alcohol	ND		0.32		ppb v/v			06/29/21 09:51	1
Tetrachloroethene	ND		0.080		ppb v/v			06/29/21 09:51	1
Toluene	ND		0.12		ppb v/v			06/29/21 09:51	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			06/29/21 09:51	1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: MB 140-51283/4
Matrix: Air
Analysis Batch: 51283

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			06/29/21 09:51	1
Trichloroethene	ND		0.036		ppb v/v			06/29/21 09:51	1
Trichlorofluoromethane	ND		0.080		ppb v/v			06/29/21 09:51	1
Vinyl chloride	ND		0.040		ppb v/v			06/29/21 09:51	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			06/29/21 09:51	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			06/29/21 09:51	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			06/29/21 09:51	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			06/29/21 09:51	1
1,1-Dichloroethane	ND		0.32		ug/m3			06/29/21 09:51	1
1,1-Dichloroethene	ND		0.16		ug/m3			06/29/21 09:51	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			06/29/21 09:51	1
1,2,4-Trimethylbenzene	ND		0.39		ug/m3			06/29/21 09:51	1
1,2-Dibromoethane	ND		0.61		ug/m3			06/29/21 09:51	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			06/29/21 09:51	1
1,2-Dichloroethane	ND		0.32		ug/m3			06/29/21 09:51	1
1,2-Dichloropropane	ND		0.37		ug/m3			06/29/21 09:51	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			06/29/21 09:51	1
1,3,5-Trimethylbenzene	ND		0.39		ug/m3			06/29/21 09:51	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			06/29/21 09:51	1
1,4-Dichlorobenzene	ND		0.48		ug/m3			06/29/21 09:51	1
1,4-Dioxane	ND		0.72		ug/m3			06/29/21 09:51	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			06/29/21 09:51	1
2-Butanone	ND		0.94		ug/m3			06/29/21 09:51	1
4-Methyl-2-pentanone (MIBK)	ND		0.82		ug/m3			06/29/21 09:51	1
Benzene	ND		0.26		ug/m3			06/29/21 09:51	1
Benzyl chloride	ND		0.83		ug/m3			06/29/21 09:51	1
Bromodichloromethane	ND		0.54		ug/m3			06/29/21 09:51	1
Bromoform	ND		0.83		ug/m3			06/29/21 09:51	1
Bromomethane	ND		0.31		ug/m3			06/29/21 09:51	1
Carbon tetrachloride	ND		0.20		ug/m3			06/29/21 09:51	1
Chlorobenzene	ND		0.37		ug/m3			06/29/21 09:51	1
Chloroethane	ND		0.21		ug/m3			06/29/21 09:51	1
Chloroform	ND		0.39		ug/m3			06/29/21 09:51	1
Chloromethane	ND		0.41		ug/m3			06/29/21 09:51	1
cis-1,2-Dichloroethene	ND		0.16		ug/m3			06/29/21 09:51	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			06/29/21 09:51	1
Cyclohexane	ND		0.69		ug/m3			06/29/21 09:51	1
Dibromochloromethane	ND		0.68		ug/m3			06/29/21 09:51	1
Dichlorodifluoromethane	ND		0.40		ug/m3			06/29/21 09:51	1
Ethanol	ND		3.8		ug/m3			06/29/21 09:51	1
Ethylbenzene	ND		0.35		ug/m3			06/29/21 09:51	1
Hexachlorobutadiene	ND		0.85		ug/m3			06/29/21 09:51	1
Hexane	ND		0.70		ug/m3			06/29/21 09:51	1
Methyl tert-butyl ether	ND		0.58		ug/m3			06/29/21 09:51	1
Methylene Chloride	ND		1.4		ug/m3			06/29/21 09:51	1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: MB 140-51283/4
Matrix: Air
Analysis Batch: 51283

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		0.35		ug/m3			06/29/21 09:51	1
Naphthalene	ND		1.0		ug/m3			06/29/21 09:51	1
o-Xylene	ND		0.35		ug/m3			06/29/21 09:51	1
Styrene	ND		0.34		ug/m3			06/29/21 09:51	1
t-Butyl alcohol	ND		0.97		ug/m3			06/29/21 09:51	1
Tetrachloroethene	ND		0.54		ug/m3			06/29/21 09:51	1
Toluene	ND		0.45		ug/m3			06/29/21 09:51	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			06/29/21 09:51	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			06/29/21 09:51	1
Trichloroethene	ND		0.19		ug/m3			06/29/21 09:51	1
Trichlorofluoromethane	ND		0.45		ug/m3			06/29/21 09:51	1
Vinyl chloride	ND		0.10		ug/m3			06/29/21 09:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*06/29/21 09:51*	*1*

Lab Sample ID: LCS 140-51283/1002
Matrix: Air
Analysis Batch: 51283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	1.87		ppb v/v		94	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.08		ppb v/v		104	70 - 130
1,1,2-Trichloroethane	2.00	1.98		ppb v/v		99	70 - 130
1,1,2-Trichlorotrifluoroethane	2.00	1.93		ppb v/v		96	70 - 130
1,1-Dichloroethane	2.00	2.00		ppb v/v		100	70 - 130
1,1-Dichloroethene	2.00	1.88		ppb v/v		94	70 - 130
1,2,4-Trichlorobenzene	2.00	1.69		ppb v/v		85	60 - 140
1,2,4-Trimethylbenzene	2.00	1.96		ppb v/v		98	70 - 130
1,2-Dibromoethane	2.00	1.96		ppb v/v		98	70 - 130
1,2-Dichlorobenzene	2.00	1.89		ppb v/v		94	70 - 130
1,2-Dichloroethane	2.00	1.97		ppb v/v		98	70 - 130
1,2-Dichloropropane	2.00	2.09		ppb v/v		105	70 - 130
1,2-Dichlorotetrafluoroethane	2.00	2.00		ppb v/v		100	60 - 140
1,3,5-Trimethylbenzene	2.00	2.26		ppb v/v		113	70 - 130
1,3-Dichlorobenzene	2.00	1.86		ppb v/v		93	70 - 130
1,4-Dichlorobenzene	2.00	1.84		ppb v/v		92	70 - 130
1,4-Dioxane	2.00	1.69		ppb v/v		84	60 - 140
2,2,4-Trimethylpentane	2.00	2.08		ppb v/v		104	70 - 130
2-Butanone	2.00	1.79		ppb v/v		90	60 - 140
4-Methyl-2-pentanone (MIBK)	2.00	1.84		ppb v/v		92	60 - 140
Benzene	2.00	1.95		ppb v/v		97	70 - 130
Benzyl chloride	2.00	1.94		ppb v/v		97	70 - 130
Bromodichloromethane	2.00	1.99		ppb v/v		99	70 - 130
Bromoform	2.00	2.17		ppb v/v		109	60 - 140
Bromomethane	2.00	2.32		ppb v/v		116	70 - 130
Carbon tetrachloride	2.00	2.03		ppb v/v		102	70 - 130

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: LCS 140-51283/1002
Matrix: Air
Analysis Batch: 51283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	2.00	1.95		ppb v/v		98	70 - 130
Chloroethane	2.00	2.39		ppb v/v		120	70 - 130
Chloroform	2.00	1.92		ppb v/v		96	70 - 130
Chloromethane	2.00	2.05		ppb v/v		102	60 - 140
cis-1,2-Dichloroethene	2.00	1.97		ppb v/v		98	70 - 130
cis-1,3-Dichloropropene	2.00	2.08		ppb v/v		104	70 - 130
Cyclohexane	2.00	1.98		ppb v/v		99	70 - 130
Dibromochloromethane	2.00	1.98		ppb v/v		99	70 - 130
Dichlorodifluoromethane	2.00	1.93		ppb v/v		96	60 - 140
Ethanol	10.0	6.92		ppb v/v		69	60 - 140
Ethylbenzene	2.00	1.97		ppb v/v		98	70 - 130
Hexachlorobutadiene	2.00	1.74		ppb v/v		87	60 - 140
Hexane	2.00	2.03		ppb v/v		101	70 - 130
Methyl tert-butyl ether	2.00	1.93		ppb v/v		97	60 - 140
Methylene Chloride	2.00	1.86		ppb v/v		93	70 - 130
m-Xylene & p-Xylene	4.00	3.97		ppb v/v		99	70 - 130
Naphthalene	2.00	1.46		ppb v/v		73	60 - 140
o-Xylene	2.00	1.97		ppb v/v		99	70 - 130
Styrene	2.00	2.04		ppb v/v		102	70 - 130
t-Butyl alcohol	2.00	1.75		ppb v/v		87	60 - 140
Tetrachloroethene	2.00	1.81		ppb v/v		90	70 - 130
Toluene	2.00	1.94		ppb v/v		97	70 - 130
trans-1,2-Dichloroethene	2.00	1.89		ppb v/v		95	70 - 130
trans-1,3-Dichloropropene	2.00	2.06		ppb v/v		103	70 - 130
Trichloroethene	2.00	1.86		ppb v/v		93	70 - 130
Trichlorofluoromethane	2.00	1.82		ppb v/v		91	60 - 140
Vinyl chloride	2.00	2.22		ppb v/v		111	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	10.2		ug/m3		94	70 - 130
1,1,2,2-Tetrachloroethane	14	14.3		ug/m3		104	70 - 130
1,1,2-Trichloroethane	11	10.8		ug/m3		99	70 - 130
1,1,2-Trichlorotrifluoroethane	15	14.8		ug/m3		96	70 - 130
1,1-Dichloroethane	8.1	8.08		ug/m3		100	70 - 130
1,1-Dichloroethene	7.9	7.47		ug/m3		94	70 - 130
1,2,4-Trichlorobenzene	15	12.6		ug/m3		85	60 - 140
1,2,4-Trimethylbenzene	9.8	9.63		ug/m3		98	70 - 130
1,2-Dibromoethane	15	15.1		ug/m3		98	70 - 130
1,2-Dichlorobenzene	12	11.4		ug/m3		94	70 - 130
1,2-Dichloroethane	8.1	7.97		ug/m3		98	70 - 130
1,2-Dichloropropane	9.2	9.67		ug/m3		105	70 - 130
1,2-Dichlorotetrafluoroethane	14	14.0		ug/m3		100	60 - 140
1,3,5-Trimethylbenzene	9.8	11.1		ug/m3		113	70 - 130
1,3-Dichlorobenzene	12	11.2		ug/m3		93	70 - 130
1,4-Dichlorobenzene	12	11.1		ug/m3		92	70 - 130
1,4-Dioxane	7.2	6.08		ug/m3		84	60 - 140
2,2,4-Trimethylpentane	9.3	9.70		ug/m3		104	70 - 130

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: LCS 140-51283/1002
Matrix: Air
Analysis Batch: 51283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone	5.9	5.28		ug/m3		90	60 - 140
4-Methyl-2-pentanone (MIBK)	8.2	7.54		ug/m3		92	60 - 140
Benzene	6.4	6.22		ug/m3		97	70 - 130
Benzyl chloride	10	10.1		ug/m3		97	70 - 130
Bromodichloromethane	13	13.3		ug/m3		99	70 - 130
Bromoform	21	22.5		ug/m3		109	60 - 140
Bromomethane	7.8	9.02		ug/m3		116	70 - 130
Carbon tetrachloride	13	12.8		ug/m3		102	70 - 130
Chlorobenzene	9.2	8.99		ug/m3		98	70 - 130
Chloroethane	5.3	6.31		ug/m3		120	70 - 130
Chloroform	9.8	9.39		ug/m3		96	70 - 130
Chloromethane	4.1	4.22		ug/m3		102	60 - 140
cis-1,2-Dichloroethene	7.9	7.80		ug/m3		98	70 - 130
cis-1,3-Dichloropropene	9.1	9.42		ug/m3		104	70 - 130
Cyclohexane	6.9	6.82		ug/m3		99	70 - 130
Dibromochloromethane	17	16.8		ug/m3		99	70 - 130
Dichlorodifluoromethane	9.9	9.54		ug/m3		96	60 - 140
Ethanol	19	13.0		ug/m3		69	60 - 140
Ethylbenzene	8.7	8.55		ug/m3		98	70 - 130
Hexachlorobutadiene	21	18.5		ug/m3		87	60 - 140
Hexane	7.0	7.14		ug/m3		101	70 - 130
Methyl tert-butyl ether	7.2	6.97		ug/m3		97	60 - 140
Methylene Chloride	6.9	6.47		ug/m3		93	70 - 130
m-Xylene & p-Xylene	17	17.2		ug/m3		99	70 - 130
Naphthalene	10	7.67		ug/m3		73	60 - 140
o-Xylene	8.7	8.56		ug/m3		99	70 - 130
Styrene	8.5	8.67		ug/m3		102	70 - 130
t-Butyl alcohol	6.1	5.30		ug/m3		87	60 - 140
Tetrachloroethene	14	12.3		ug/m3		90	70 - 130
Toluene	7.5	7.30		ug/m3		97	70 - 130
trans-1,2-Dichloroethene	7.9	7.51		ug/m3		95	70 - 130
trans-1,3-Dichloropropene	9.1	9.34		ug/m3		103	70 - 130
Trichloroethene	11	9.97		ug/m3		93	70 - 130
Trichlorofluoromethane	11	10.2		ug/m3		91	60 - 140
Vinyl chloride	5.1	5.69		ug/m3		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*

Lab Sample ID: MB 140-51316/4
Matrix: Air
Analysis Batch: 51316

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			06/30/21 10:48	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			06/30/21 10:48	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			06/30/21 10:48	1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: MB 140-51316/4
Matrix: Air
Analysis Batch: 51316

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			06/30/21 10:48	1
1,1-Dichloroethane	ND		0.080		ppb v/v			06/30/21 10:48	1
1,1-Dichloroethene	ND		0.040		ppb v/v			06/30/21 10:48	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			06/30/21 10:48	1
1,2,4-Trimethylbenzene	ND		0.080		ppb v/v			06/30/21 10:48	1
1,2-Dibromoethane	ND		0.080		ppb v/v			06/30/21 10:48	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			06/30/21 10:48	1
1,2-Dichloroethane	ND		0.080		ppb v/v			06/30/21 10:48	1
1,2-Dichloropropane	ND		0.080		ppb v/v			06/30/21 10:48	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			06/30/21 10:48	1
1,3,5-Trimethylbenzene	ND		0.080		ppb v/v			06/30/21 10:48	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			06/30/21 10:48	1
1,4-Dichlorobenzene	ND		0.080		ppb v/v			06/30/21 10:48	1
1,4-Dioxane	ND		0.20		ppb v/v			06/30/21 10:48	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			06/30/21 10:48	1
2-Butanone	ND		0.32		ppb v/v			06/30/21 10:48	1
4-Methyl-2-pentanone (MIBK)	ND		0.20		ppb v/v			06/30/21 10:48	1
Benzene	ND		0.080		ppb v/v			06/30/21 10:48	1
Benzyl chloride	ND		0.16		ppb v/v			06/30/21 10:48	1
Bromodichloromethane	ND		0.080		ppb v/v			06/30/21 10:48	1
Bromoform	ND		0.080		ppb v/v			06/30/21 10:48	1
Bromomethane	ND		0.080		ppb v/v			06/30/21 10:48	1
Carbon tetrachloride	ND		0.032		ppb v/v			06/30/21 10:48	1
Chlorobenzene	ND		0.080		ppb v/v			06/30/21 10:48	1
Chloroethane	ND		0.080		ppb v/v			06/30/21 10:48	1
Chloroform	ND		0.080		ppb v/v			06/30/21 10:48	1
Chloromethane	ND		0.20		ppb v/v			06/30/21 10:48	1
cis-1,2-Dichloroethene	ND		0.040		ppb v/v			06/30/21 10:48	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			06/30/21 10:48	1
Cyclohexane	ND		0.20		ppb v/v			06/30/21 10:48	1
Dibromochloromethane	ND		0.080		ppb v/v			06/30/21 10:48	1
Dichlorodifluoromethane	ND		0.080		ppb v/v			06/30/21 10:48	1
Ethanol	ND		2.0		ppb v/v			06/30/21 10:48	1
Ethylbenzene	ND		0.080		ppb v/v			06/30/21 10:48	1
Hexachlorobutadiene	ND		0.080		ppb v/v			06/30/21 10:48	1
Hexane	ND		0.20		ppb v/v			06/30/21 10:48	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			06/30/21 10:48	1
Methylene Chloride	ND		0.40		ppb v/v			06/30/21 10:48	1
m-Xylene & p-Xylene	ND		0.080		ppb v/v			06/30/21 10:48	1
Naphthalene	ND		0.20		ppb v/v			06/30/21 10:48	1
o-Xylene	ND		0.080		ppb v/v			06/30/21 10:48	1
Styrene	ND		0.080		ppb v/v			06/30/21 10:48	1
t-Butyl alcohol	ND		0.32		ppb v/v			06/30/21 10:48	1
Tetrachloroethene	ND		0.080		ppb v/v			06/30/21 10:48	1
Toluene	ND		0.12		ppb v/v			06/30/21 10:48	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			06/30/21 10:48	1
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			06/30/21 10:48	1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: MB 140-51316/4
Matrix: Air
Analysis Batch: 51316

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.036		ppb v/v			06/30/21 10:48	1
Trichlorofluoromethane	ND		0.080		ppb v/v			06/30/21 10:48	1
Vinyl chloride	ND		0.040		ppb v/v			06/30/21 10:48	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			06/30/21 10:48	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			06/30/21 10:48	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			06/30/21 10:48	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			06/30/21 10:48	1
1,1-Dichloroethane	ND		0.32		ug/m3			06/30/21 10:48	1
1,1-Dichloroethene	ND		0.16		ug/m3			06/30/21 10:48	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			06/30/21 10:48	1
1,2,4-Trimethylbenzene	ND		0.39		ug/m3			06/30/21 10:48	1
1,2-Dibromoethane	ND		0.61		ug/m3			06/30/21 10:48	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			06/30/21 10:48	1
1,2-Dichloroethane	ND		0.32		ug/m3			06/30/21 10:48	1
1,2-Dichloropropane	ND		0.37		ug/m3			06/30/21 10:48	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			06/30/21 10:48	1
1,3,5-Trimethylbenzene	ND		0.39		ug/m3			06/30/21 10:48	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			06/30/21 10:48	1
1,4-Dichlorobenzene	ND		0.48		ug/m3			06/30/21 10:48	1
1,4-Dioxane	ND		0.72		ug/m3			06/30/21 10:48	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			06/30/21 10:48	1
2-Butanone	ND		0.94		ug/m3			06/30/21 10:48	1
4-Methyl-2-pentanone (MIBK)	ND		0.82		ug/m3			06/30/21 10:48	1
Benzene	ND		0.26		ug/m3			06/30/21 10:48	1
Benzyl chloride	ND		0.83		ug/m3			06/30/21 10:48	1
Bromodichloromethane	ND		0.54		ug/m3			06/30/21 10:48	1
Bromoform	ND		0.83		ug/m3			06/30/21 10:48	1
Bromomethane	ND		0.31		ug/m3			06/30/21 10:48	1
Carbon tetrachloride	ND		0.20		ug/m3			06/30/21 10:48	1
Chlorobenzene	ND		0.37		ug/m3			06/30/21 10:48	1
Chloroethane	ND		0.21		ug/m3			06/30/21 10:48	1
Chloroform	ND		0.39		ug/m3			06/30/21 10:48	1
Chloromethane	ND		0.41		ug/m3			06/30/21 10:48	1
cis-1,2-Dichloroethene	ND		0.16		ug/m3			06/30/21 10:48	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			06/30/21 10:48	1
Cyclohexane	ND		0.69		ug/m3			06/30/21 10:48	1
Dibromochloromethane	ND		0.68		ug/m3			06/30/21 10:48	1
Dichlorodifluoromethane	ND		0.40		ug/m3			06/30/21 10:48	1
Ethanol	ND		3.8		ug/m3			06/30/21 10:48	1
Ethylbenzene	ND		0.35		ug/m3			06/30/21 10:48	1
Hexachlorobutadiene	ND		0.85		ug/m3			06/30/21 10:48	1
Hexane	ND		0.70		ug/m3			06/30/21 10:48	1
Methyl tert-butyl ether	ND		0.58		ug/m3			06/30/21 10:48	1
Methylene Chloride	ND		1.4		ug/m3			06/30/21 10:48	1
m-Xylene & p-Xylene	ND		0.35		ug/m3			06/30/21 10:48	1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: MB 140-51316/4
Matrix: Air
Analysis Batch: 51316

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/m3			06/30/21 10:48	1
o-Xylene	ND		0.35		ug/m3			06/30/21 10:48	1
Styrene	ND		0.34		ug/m3			06/30/21 10:48	1
t-Butyl alcohol	ND		0.97		ug/m3			06/30/21 10:48	1
Tetrachloroethene	ND		0.54		ug/m3			06/30/21 10:48	1
Toluene	ND		0.45		ug/m3			06/30/21 10:48	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			06/30/21 10:48	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			06/30/21 10:48	1
Trichloroethene	ND		0.19		ug/m3			06/30/21 10:48	1
Trichlorofluoromethane	ND		0.45		ug/m3			06/30/21 10:48	1
Vinyl chloride	ND		0.10		ug/m3			06/30/21 10:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*06/30/21 10:48*	*1*

Lab Sample ID: LCS 140-51316/1002
Matrix: Air
Analysis Batch: 51316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.29		ppb v/v		114	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.49		ppb v/v		125	70 - 130
1,1,2-Trichloroethane	2.00	2.41		ppb v/v		121	70 - 130
1,1,2-Trichlorotrifluoroethane	2.00	2.38		ppb v/v		119	70 - 130
1,1-Dichloroethane	2.00	2.38		ppb v/v		119	70 - 130
1,1-Dichloroethene	2.00	2.16		ppb v/v		108	70 - 130
1,2,4-Trichlorobenzene	2.00	1.94		ppb v/v		97	60 - 140
1,2,4-Trimethylbenzene	2.00	2.63	*+	ppb v/v		132	70 - 130
1,2-Dibromoethane	2.00	2.31		ppb v/v		116	70 - 130
1,2-Dichlorobenzene	2.00	2.49		ppb v/v		124	70 - 130
1,2-Dichloroethane	2.00	2.46		ppb v/v		123	70 - 130
1,2-Dichloropropane	2.00	2.43		ppb v/v		122	70 - 130
1,2-Dichlorotetrafluoroethane	2.00	2.56		ppb v/v		128	60 - 140
1,3,5-Trimethylbenzene	2.00	2.41		ppb v/v		120	70 - 130
1,3-Dichlorobenzene	2.00	2.43		ppb v/v		121	70 - 130
1,4-Dichlorobenzene	2.00	2.41		ppb v/v		121	70 - 130
1,4-Dioxane	2.00	2.29		ppb v/v		115	60 - 140
2,2,4-Trimethylpentane	2.00	2.26		ppb v/v		113	70 - 130
2-Butanone	2.00	2.05		ppb v/v		102	60 - 140
4-Methyl-2-pentanone (MIBK)	2.00	2.32		ppb v/v		116	60 - 140
Benzene	2.00	2.31		ppb v/v		115	70 - 130
Benzyl chloride	2.00	2.74	*+	ppb v/v		137	70 - 130
Bromodichloromethane	2.00	2.55		ppb v/v		127	70 - 130
Bromoform	2.00	2.68		ppb v/v		134	60 - 140
Bromomethane	2.00	2.23		ppb v/v		112	70 - 130
Carbon tetrachloride	2.00	2.81	*+	ppb v/v		140	70 - 130
Chlorobenzene	2.00	2.36		ppb v/v		118	70 - 130

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: LCS 140-51316/1002
Matrix: Air
Analysis Batch: 51316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	2.00	1.94		ppb v/v		97	70 - 130
Chloroform	2.00	2.41		ppb v/v		121	70 - 130
Chloromethane	2.00	1.83		ppb v/v		91	60 - 140
cis-1,2-Dichloroethene	2.00	2.13		ppb v/v		107	70 - 130
cis-1,3-Dichloropropene	2.00	2.34		ppb v/v		117	70 - 130
Cyclohexane	2.00	2.17		ppb v/v		108	70 - 130
Dibromochloromethane	2.00	2.55		ppb v/v		128	70 - 130
Dichlorodifluoromethane	2.00	2.48		ppb v/v		124	60 - 140
Ethanol	10.0	9.82		ppb v/v		98	60 - 140
Ethylbenzene	2.00	2.29		ppb v/v		115	70 - 130
Hexachlorobutadiene	2.00	2.27		ppb v/v		113	60 - 140
Hexane	2.00	2.25		ppb v/v		112	70 - 130
Methyl tert-butyl ether	2.00	2.22		ppb v/v		111	60 - 140
Methylene Chloride	2.00	2.36		ppb v/v		118	70 - 130
m-Xylene & p-Xylene	4.00	4.76		ppb v/v		119	70 - 130
Naphthalene	2.00	2.26		ppb v/v		113	60 - 140
o-Xylene	2.00	2.42		ppb v/v		121	70 - 130
Styrene	2.00	2.52		ppb v/v		126	70 - 130
t-Butyl alcohol	2.00	2.44		ppb v/v		122	60 - 140
Tetrachloroethene	2.00	2.21		ppb v/v		111	70 - 130
Toluene	2.00	2.20		ppb v/v		110	70 - 130
trans-1,2-Dichloroethene	2.00	2.14		ppb v/v		107	70 - 130
trans-1,3-Dichloropropene	2.00	2.41		ppb v/v		120	70 - 130
Trichloroethene	2.00	2.10		ppb v/v		105	70 - 130
Trichlorofluoromethane	2.00	2.73		ppb v/v		136	60 - 140
Vinyl chloride	2.00	2.10		ppb v/v		105	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	12.5		ug/m3		114	70 - 130
1,1,2,2-Tetrachloroethane	14	17.1		ug/m3		125	70 - 130
1,1,2-Trichloroethane	11	13.2		ug/m3		121	70 - 130
1,1,2-Trichlorotrifluoroethane	15	18.3		ug/m3		119	70 - 130
1,1-Dichloroethane	8.1	9.63		ug/m3		119	70 - 130
1,1-Dichloroethene	7.9	8.56		ug/m3		108	70 - 130
1,2,4-Trichlorobenzene	15	14.4		ug/m3		97	60 - 140
1,2,4-Trimethylbenzene	9.8	12.9	*+	ug/m3		132	70 - 130
1,2-Dibromoethane	15	17.8		ug/m3		116	70 - 130
1,2-Dichlorobenzene	12	14.9		ug/m3		124	70 - 130
1,2-Dichloroethane	8.1	9.97		ug/m3		123	70 - 130
1,2-Dichloropropane	9.2	11.2		ug/m3		122	70 - 130
1,2-Dichlorotetrafluoroethane	14	17.9		ug/m3		128	60 - 140
1,3,5-Trimethylbenzene	9.8	11.8		ug/m3		120	70 - 130
1,3-Dichlorobenzene	12	14.6		ug/m3		121	70 - 130
1,4-Dichlorobenzene	12	14.5		ug/m3		121	70 - 130
1,4-Dioxane	7.2	8.26		ug/m3		115	60 - 140
2,2,4-Trimethylpentane	9.3	10.6		ug/m3		113	70 - 130
2-Butanone	5.9	6.04		ug/m3		102	60 - 140

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: LCS 140-51316/1002
Matrix: Air
Analysis Batch: 51316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	8.2	9.49		ug/m3		116	60 - 140
Benzene	6.4	7.37		ug/m3		115	70 - 130
Benzyl chloride	10	14.2	*+	ug/m3		137	70 - 130
Bromodichloromethane	13	17.1		ug/m3		127	70 - 130
Bromoform	21	27.7		ug/m3		134	60 - 140
Bromomethane	7.8	8.67		ug/m3		112	70 - 130
Carbon tetrachloride	13	17.7	*+	ug/m3		140	70 - 130
Chlorobenzene	9.2	10.9		ug/m3		118	70 - 130
Chloroethane	5.3	5.12		ug/m3		97	70 - 130
Chloroform	9.8	11.8		ug/m3		121	70 - 130
Chloromethane	4.1	3.77		ug/m3		91	60 - 140
cis-1,2-Dichloroethene	7.9	8.46		ug/m3		107	70 - 130
cis-1,3-Dichloropropene	9.1	10.6		ug/m3		117	70 - 130
Cyclohexane	6.9	7.45		ug/m3		108	70 - 130
Dibromochloromethane	17	21.7		ug/m3		128	70 - 130
Dichlorodifluoromethane	9.9	12.3		ug/m3		124	60 - 140
Ethanol	19	18.5		ug/m3		98	60 - 140
Ethylbenzene	8.7	9.96		ug/m3		115	70 - 130
Hexachlorobutadiene	21	24.2		ug/m3		113	60 - 140
Hexane	7.0	7.91		ug/m3		112	70 - 130
Methyl tert-butyl ether	7.2	8.01		ug/m3		111	60 - 140
Methylene Chloride	6.9	8.20		ug/m3		118	70 - 130
m-Xylene & p-Xylene	17	20.7		ug/m3		119	70 - 130
Naphthalene	10	11.9		ug/m3		113	60 - 140
o-Xylene	8.7	10.5		ug/m3		121	70 - 130
Styrene	8.5	10.7		ug/m3		126	70 - 130
t-Butyl alcohol	6.1	7.41		ug/m3		122	60 - 140
Tetrachloroethene	14	15.0		ug/m3		111	70 - 130
Toluene	7.5	8.30		ug/m3		110	70 - 130
trans-1,2-Dichloroethene	7.9	8.49		ug/m3		107	70 - 130
trans-1,3-Dichloropropene	9.1	10.9		ug/m3		120	70 - 130
Trichloroethene	11	11.3		ug/m3		105	70 - 130
Trichlorofluoromethane	11	15.3		ug/m3		136	60 - 140
Vinyl chloride	5.1	5.36		ug/m3		105	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*60 - 140*

QC Association Summary

Client: New York State D.E.C.
Job ID: 140-23523-1
Project/Site: Former Raeco Products 828107

Air - GC/MS VOA

Analysis Batch: 51274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-23523-1	HSVE SHALLOW	Total/NA	Air	TO 15 LL	
MB 140-51274/8	Method Blank	Total/NA	Air	TO 15 LL	
LCS 140-51274/1002	Lab Control Sample	Total/NA	Air	TO 15 LL	

Analysis Batch: 51283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-23523-3	SVE - 1	Total/NA	Air	TO 15 LL	
MB 140-51283/4	Method Blank	Total/NA	Air	TO 15 LL	
LCS 140-51283/1002	Lab Control Sample	Total/NA	Air	TO 15 LL	

Analysis Batch: 51316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-23523-2	HSVE DEEP	Total/NA	Air	TO 15 LL	
MB 140-51316/4	Method Blank	Total/NA	Air	TO 15 LL	
LCS 140-51316/1002	Lab Control Sample	Total/NA	Air	TO 15 LL	

Client Sample ID: HSVE SHALLOW — Lab Sample ID: 140-23523-1

Date Collected: 06/15/21 02:42 — **Matrix: Air**
Date Received: 06/18/21 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		33.59	20 mL	500 mL	51274	06/29/21 01:51	S1K	TAL KNX
	Instrument ID: MR									

Client Sample ID: HSVE DEEP — Lab Sample ID: 140-23523-2

Date Collected: 06/15/21 04:59 — **Matrix: Air**
Date Received: 06/18/21 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	70 mL	500 mL	51316	06/30/21 17:53	S1K	TAL KNX
	Instrument ID: MR									

Client Sample ID: SVE - 1 — Lab Sample ID: 140-23523-3

Date Collected: 06/16/21 10:12 — **Matrix: Air**
Date Received: 06/18/21 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		37.59	40 mL	500 mL	51283	06/30/21 03:29	S1K	TAL KNX
	Instrument ID: MS									

Client Sample ID: Method Blank — Lab Sample ID: MB 140-51274/8

Date Collected: N/A — **Matrix: Air**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	51274	06/28/21 11:54	S1K	TAL KNX
	Instrument ID: MR									

Client Sample ID: Method Blank — Lab Sample ID: MB 140-51283/4

Date Collected: N/A — **Matrix: Air**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	51283	06/29/21 09:51	S1K	TAL KNX
	Instrument ID: MS									

Client Sample ID: Method Blank — Lab Sample ID: MB 140-51316/4

Date Collected: N/A — **Matrix: Air**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	51316	06/30/21 10:48	S1K	TAL KNX
	Instrument ID: MR									

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 140-51274/1002
Date Collected: N/A
Matrix: Air
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	51274	06/28/21 08:03	S1K	TAL KNX
	Instrument ID: MR									

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 140-51283/1002
Date Collected: N/A
Matrix: Air
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	51283	06/29/21 08:12	S1K	TAL KNX
	Instrument ID: MS									

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 140-51316/1002
Date Collected: N/A
Matrix: Air
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	51316	06/30/21 08:50	S1K	TAL KNX
	Instrument ID: MR									

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Accreditation/Certification Summary

Client: New York State D.E.C. Job ID: 140-23523-1
Project/Site: Former Raeco Products 828107

Laboratory: Eurofins TestAmerica, Knoxville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Louisiana	NELAP	83979	06-30-21

Method Summary

Client: New York State D.E.C.
Job ID: 140-23523-1
Project/Site: Former Raeco Products 828107

Method	Method Description	Protocol	Laboratory
TO 15 LL	Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)	EPA	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: New York State D.E.C.
Job ID: 140-23523-1
Project/Site: Former Raeco Products 828107

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
140-23523-1	HSVE SHALLOW	Air	06/15/21 02:42	06/18/21 09:10	Air Canister (6-Liter) #34000178
140-23523-2	HSVE DEEP	Air	06/15/21 04:59	06/18/21 09:10	Air Canister (6-Liter) #34000554
140-23523-3	SVE - 1	Air	06/16/21 10:12	06/18/21 09:10	Air Canister (6-Liter) #7759

Method TO15 Low Level

Volatile Organic Compounds - Low level (GC/MS) by Method TO 15

FORM II
AIR - GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Matrix: Air Level: Low

GC Column (1): RTX-5 ID: 0.32(mm)

Client Sample ID	Lab Sample ID	BFB #
HSVE SHALLOW	140-23523-1	100
HSVE DEEP	140-23523-2	103
SVE - 1	140-23523-3	93
	MB 140-51274/8	97
	MB 140-51283/4	93
	MB 140-51316/4	99
	LCS 140-51274/1002	114
	LCS 140-51283/1002	103
	LCS 140-51316/1002	112

	QC LIMITS
BFB = 4-Bromofluorobenzene (Surr)	60-140

Column to be used to flag recovery values

FORM II TO 15 LL

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Matrix: Air Level: Low Lab File ID: RCCVF28-LCS.d

Lab ID: LCS 140-51274/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.05	102	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.42	121	70-130	
1,1,2-Trichloroethane	2.00	2.23	111	70-130	
1,1,2-Trichlorotrifluoroethane	2.00	2.17	109	70-130	
1,1-Dichloroethane	2.00	2.15	108	70-130	
1,1-Dichloroethene	2.00	1.91	96	70-130	
1,2,4-Trichlorobenzene	2.00	1.96	98	60-140	
1,2,4-Trimethylbenzene	2.00	2.58	129	70-130	
1,2-Dibromoethane	2.00	2.05	103	70-130	
1,2-Dichlorobenzene	2.00	2.51	125	70-130	
1,2-Dichloroethane	2.00	2.12	106	70-130	
1,2-Dichloropropane	2.00	2.22	111	70-130	
1,2-Dichlorotetrafluoroethane	2.00	2.45	122	60-140	
1,3,5-Trimethylbenzene	2.00	2.35	117	70-130	
1,3-Dichlorobenzene	2.00	2.41	121	70-130	
1,4-Dichlorobenzene	2.00	2.39	119	70-130	
1,4-Dioxane	2.00	2.05	102	60-140	
2,2,4-Trimethylpentane	2.00	2.03	101	70-130	
2-Butanone	2.00	1.87	94	60-140	
4-Methyl-2-pentanone (MIBK)	2.00	2.10	105	60-140	
Benzene	2.00	2.14	107	70-130	
Benzyl chloride	2.00	2.68	134	70-130	*+
Bromodichloromethane	2.00	2.27	113	70-130	
Bromoform	2.00	2.58	129	60-140	
Bromomethane	2.00	2.24	112	70-130	
Carbon tetrachloride	2.00	2.43	122	70-130	
Chlorobenzene	2.00	2.24	112	70-130	
Chloroethane	2.00	1.84	92	70-130	
Chloroform	2.00	2.20	110	70-130	
Chloromethane	2.00	1.76	88	60-140	
cis-1,2-Dichloroethene	2.00	1.93	97	70-130	
cis-1,3-Dichloropropene	2.00	2.11	105	70-130	
Cyclohexane	2.00	1.89	95	70-130	
Dibromochloromethane	2.00	2.32	116	70-130	
Dichlorodifluoromethane	2.00	2.21	111	60-140	
Ethanol	10.0	10.3	103	60-140	
Ethylbenzene	2.00	2.11	105	70-130	
Hexachlorobutadiene	2.00	2.23	112	60-140	
Hexane	2.00	2.10	105	70-130	
Methyl tert-butyl ether	2.00	1.95	98	60-140	
Methylene Chloride	2.00	2.18	109	70-130	
m-Xylene & p-Xylene	4.00	4.46	111	70-130	

Column to be used to flag recovery and RPD values

FORM III TO 15 LL

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Matrix: Air Level: Low Lab File ID: RCCVF28-LCS.d

Lab ID: LCS 140-51274/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Naphthalene	2.00	2.29	114	60-140	
o-Xylene	2.00	2.28	114	70-130	
Styrene	2.00	2.43	121	70-130	
t-Butyl alcohol	2.00	2.14	107	60-140	
Tetrachloroethene	2.00	1.94	97	70-130	
Toluene	2.00	1.98	99	70-130	
trans-1,2-Dichloroethene	2.00	1.98	99	70-130	
trans-1,3-Dichloropropene	2.00	2.11	105	70-130	
Trichloroethene	2.00	1.92	96	70-130	
Trichlorofluoromethane	2.00	2.40	120	60-140	
Vinyl chloride	2.00	2.07	104	70-130	

Column to be used to flag recovery and RPD values

FORM III TO 15 LL

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Matrix: Air Level: Low Lab File ID: SCCVF29-LCS.d

Lab ID: LCS 140-51283/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	1.87	94	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.08	104	70-130	
1,1,2-Trichloroethane	2.00	1.98	99	70-130	
1,1,2-Trichlorotrifluoroethane	2.00	1.93	96	70-130	
1,1-Dichloroethane	2.00	2.00	100	70-130	
1,1-Dichloroethene	2.00	1.88	94	70-130	
1,2,4-Trichlorobenzene	2.00	1.69	85	60-140	
1,2,4-Trimethylbenzene	2.00	1.96	98	70-130	
1,2-Dibromoethane	2.00	1.96	98	70-130	
1,2-Dichlorobenzene	2.00	1.89	94	70-130	
1,2-Dichloroethane	2.00	1.97	98	70-130	
1,2-Dichloropropane	2.00	2.09	105	70-130	
1,2-Dichlorotetrafluoroethane	2.00	2.00	100	60-140	
1,3,5-Trimethylbenzene	2.00	2.26	113	70-130	
1,3-Dichlorobenzene	2.00	1.86	93	70-130	
1,4-Dichlorobenzene	2.00	1.84	92	70-130	
1,4-Dioxane	2.00	1.69	84	60-140	
2,2,4-Trimethylpentane	2.00	2.08	104	70-130	
2-Butanone	2.00	1.79	90	60-140	
4-Methyl-2-pentanone (MIBK)	2.00	1.84	92	60-140	
Benzene	2.00	1.95	97	70-130	
Benzyl chloride	2.00	1.94	97	70-130	
Bromodichloromethane	2.00	1.99	99	70-130	
Bromoform	2.00	2.17	109	60-140	
Bromomethane	2.00	2.32	116	70-130	
Carbon tetrachloride	2.00	2.03	102	70-130	
Chlorobenzene	2.00	1.95	98	70-130	
Chloroethane	2.00	2.39	120	70-130	
Chloroform	2.00	1.92	96	70-130	
Chloromethane	2.00	2.05	102	60-140	
cis-1,2-Dichloroethene	2.00	1.97	98	70-130	
cis-1,3-Dichloropropene	2.00	2.08	104	70-130	
Cyclohexane	2.00	1.98	99	70-130	
Dibromochloromethane	2.00	1.98	99	70-130	
Dichlorodifluoromethane	2.00	1.93	96	60-140	
Ethanol	10.0	6.92	69	60-140	
Ethylbenzene	2.00	1.97	98	70-130	
Hexachlorobutadiene	2.00	1.74	87	60-140	
Hexane	2.00	2.03	101	70-130	
Methyl tert-butyl ether	2.00	1.93	97	60-140	
Methylene Chloride	2.00	1.86	93	70-130	
m-Xylene & p-Xylene	4.00	3.97	99	70-130	

Column to be used to flag recovery and RPD values

FORM III TO 15 LL

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Matrix: Air Level: Low Lab File ID: SCCVF29-LCS.d

Lab ID: LCS 140-51283/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Naphthalene	2.00	1.46	73	60-140	
o-Xylene	2.00	1.97	99	70-130	
Styrene	2.00	2.04	102	70-130	
t-Butyl alcohol	2.00	1.75	87	60-140	
Tetrachloroethene	2.00	1.81	90	70-130	
Toluene	2.00	1.94	97	70-130	
trans-1,2-Dichloroethene	2.00	1.89	95	70-130	
trans-1,3-Dichloropropene	2.00	2.06	103	70-130	
Trichloroethene	2.00	1.86	93	70-130	
Trichlorofluoromethane	2.00	1.82	91	60-140	
Vinyl chloride	2.00	2.22	111	70-130	

Column to be used to flag recovery and RPD values

FORM III TO 15 LL

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Matrix: Air Level: Low Lab File ID: RCCVF30-LCS.d

Lab ID: LCS 140-51316/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.29	114	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.49	125	70-130	
1,1,2-Trichloroethane	2.00	2.41	121	70-130	
1,1,2-Trichlorotrifluoroethane	2.00	2.38	119	70-130	
1,1-Dichloroethane	2.00	2.38	119	70-130	
1,1-Dichloroethene	2.00	2.16	108	70-130	
1,2,4-Trichlorobenzene	2.00	1.94	97	60-140	
1,2,4-Trimethylbenzene	2.00	2.63	132	70-130	*+
1,2-Dibromoethane	2.00	2.31	116	70-130	
1,2-Dichlorobenzene	2.00	2.49	124	70-130	
1,2-Dichloroethane	2.00	2.46	123	70-130	
1,2-Dichloropropane	2.00	2.43	122	70-130	
1,2-Dichlorotetrafluoroethane	2.00	2.56	128	60-140	
1,3,5-Trimethylbenzene	2.00	2.41	120	70-130	
1,3-Dichlorobenzene	2.00	2.43	121	70-130	
1,4-Dichlorobenzene	2.00	2.41	121	70-130	
1,4-Dioxane	2.00	2.29	115	60-140	
2,2,4-Trimethylpentane	2.00	2.26	113	70-130	
2-Butanone	2.00	2.05	102	60-140	
4-Methyl-2-pentanone (MIBK)	2.00	2.32	116	60-140	
Benzene	2.00	2.31	115	70-130	
Benzyl chloride	2.00	2.74	137	70-130	*+
Bromodichloromethane	2.00	2.55	127	70-130	
Bromoform	2.00	2.68	134	60-140	
Bromomethane	2.00	2.23	112	70-130	
Carbon tetrachloride	2.00	2.81	140	70-130	*+
Chlorobenzene	2.00	2.36	118	70-130	
Chloroethane	2.00	1.94	97	70-130	
Chloroform	2.00	2.41	121	70-130	
Chloromethane	2.00	1.83	91	60-140	
cis-1,2-Dichloroethene	2.00	2.13	107	70-130	
cis-1,3-Dichloropropene	2.00	2.34	117	70-130	
Cyclohexane	2.00	2.17	108	70-130	
Dibromochloromethane	2.00	2.55	128	70-130	
Dichlorodifluoromethane	2.00	2.48	124	60-140	
Ethanol	10.0	9.82	98	60-140	
Ethylbenzene	2.00	2.29	115	70-130	
Hexachlorobutadiene	2.00	2.27	113	60-140	
Hexane	2.00	2.25	112	70-130	
Methyl tert-butyl ether	2.00	2.22	111	60-140	
Methylene Chloride	2.00	2.36	118	70-130	
m-Xylene & p-Xylene	4.00	4.76	119	70-130	

Column to be used to flag recovery and RPD values

FORM III TO 15 LL

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Matrix: Air Level: Low Lab File ID: RCCVF30-LCS.d

Lab ID: LCS 140-51316/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Naphthalene	2.00	2.26	113	60-140	
o-Xylene	2.00	2.42	121	70-130	
Styrene	2.00	2.52	126	70-130	
t-Butyl alcohol	2.00	2.44	122	60-140	
Tetrachloroethene	2.00	2.21	111	70-130	
Toluene	2.00	2.20	110	70-130	
trans-1,2-Dichloroethene	2.00	2.14	107	70-130	
trans-1,3-Dichloropropene	2.00	2.41	120	70-130	
Trichloroethene	2.00	2.10	105	70-130	
Trichlorofluoromethane	2.00	2.73	136	60-140	
Vinyl chloride	2.00	2.10	105	70-130	

Column to be used to flag recovery and RPD values

FORM III TO 15 LL

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab File ID: R500BF28.D Lab Sample ID: MB 140-51274/8

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: MR Date Analyzed: 06/28/2021 11:54

GC Column: RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-51274/1002	RCCVF28-LCS.d	06/28/2021 08:03
HSVE SHALLOW	140-23523-1	RF28P202.D	06/29/2021 01:51

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab File ID: R500BF30.D Lab Sample ID: MB 140-51316/4

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: MR Date Analyzed: 06/30/2021 10:48

GC Column: RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-51316/1002	RCCVF30-LCS.d	06/30/2021 08:50
HSVE DEEP	140-23523-2	RF30P103.D	06/30/2021 17:53

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab File ID: S500BF29.D Lab Sample ID: MB 140-51283/4

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: MS Date Analyzed: 06/29/2021 09:51

GC Column: RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-51283/1002	SCCVF29-LCS.d	06/29/2021 08:12
SVE - 1	140-23523-3	SF29P116.D	06/30/2021 03:29

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab File ID: RBFBF19.D BFB Injection Date: 06/19/2021

Instrument ID: MR BFB Injection Time: 07:45

Analysis Batch No.: 51007

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.4	
75	30.0 - 60.0 % of mass 95	50.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.5	(0.6) 1
174	Greater than 50% of mass 95	88.0	
175	5.0 - 9.0 % of mass 174	6.3	(7.2) 1
176	95.0 - 101.0 % of mass 174	84.0	(95.4) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.2) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 140-51007/4	RF19IC10.D	06/19/2021	9:57
	IC 140-51007/6	RF19IC09.D	06/19/2021	11:26
	IC 140-51007/8	RF19IC08.D	06/19/2021	12:55
	IC 140-51007/10	RF19IC01.D	06/19/2021	14:22
	IC 140-51007/11	RF19IC02.D	06/19/2021	15:07
	IC 140-51007/12	RF19IC03.D	06/19/2021	15:51
	IC 140-51007/13	RF19IC04.D	06/19/2021	16:36
	IC 140-51007/14	RF19IC05.D	06/19/2021	17:20
	IC 140-51007/15	RF19IC06.D	06/19/2021	18:05
	ICIS 140-51007/16	RF19IC07.D	06/19/2021	18:49
	ICV 140-51007/19	RF19LCS.D	06/19/2021	20:58

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab File ID: RBFBF28.D BFB Injection Date: 06/28/2021

Instrument ID: MR BFB Injection Time: 07:35

Analysis Batch No.: 51274

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	26.7	
75	30.0 - 60.0 % of mass 95	56.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.5	(0.7) 1
174	Greater than 50% of mass 95	78.6	
175	5.0 - 9.0 % of mass 174	5.7	(7.2) 1
176	95.0 - 101.0 % of mass 174	74.9	(95.3) 1
177	5.0 - 9.0 % of mass 176	4.7	(6.3) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-51274/2	RCCVF28.D	06/28/2021	8:03
	LCS 140-51274/1002	RCCVF28-LCS.d	06/28/2021	8:03
	MB 140-51274/8	R500BF28.D	06/28/2021	11:54
HSVE SHALLOW	140-23523-1	RF28P202.D	06/29/2021	1:51

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab File ID: RBFBF30.D BFB Injection Date: 06/30/2021

Instrument ID: MR BFB Injection Time: 08:23

Analysis Batch No.: 51316

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	26.2	
75	30.0 - 60.0 % of mass 95	58.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.4	(0.5) 1
174	Greater than 50% of mass 95	78.5	
175	5.0 - 9.0 % of mass 174	5.7	(7.3) 1
176	95.0 - 101.0 % of mass 174	74.9	(95.4) 1
177	5.0 - 9.0 % of mass 176	4.8	(6.4) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-51316/2	RCCVF30.D	06/30/2021	8:50
	LCS 140-51316/1002	RCCVF30-LCS.d	06/30/2021	8:50
	MB 140-51316/4	R500BF30.D	06/30/2021	10:48
HSVE DEEP	140-23523-2	RF30P103.D	06/30/2021	17:53

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab File ID: SBFBF09B.D BFB Injection Date: 06/09/2021

Instrument ID: MS BFB Injection Time: 11:10

Analysis Batch No.: 50646

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.6	
75	30.0 - 60.0 % of mass 95	45.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.7	(0.6) 1
174	Greater than 50% of mass 95	113.9	
175	5.0 - 9.0 % of mass 174	8.2	(7.2) 1
176	95.0 - 101.0 % of mass 174	109.9	(96.5) 1
177	5.0 - 9.0 % of mass 176	7.3	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 140-50646/3	SF09IC10.D	06/09/2021	14:14
	IC 140-50646/5	SF09C09.D	06/09/2021	15:49
	IC 140-50646/7	SF09IC08.D	06/09/2021	17:23
	IC 140-50646/9	SF09IC01.D	06/09/2021	18:55
	IC 140-50646/10	SF09IC02.D	06/09/2021	19:40
	IC 140-50646/11	SF09IC03.D	06/09/2021	20:27
	IC 140-50646/12	SF09IC04.D	06/09/2021	21:15
	IC 140-50646/13	SF09IC05.D	06/09/2021	22:04
	IC 140-50646/14	SF09IC06.D	06/09/2021	22:54
	ICIS 140-50646/15	SF09IC07.D	06/09/2021	23:44
	ICV 140-50646/17	SF09ICV.D	06/10/2021	1:28

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab File ID: SBFBF29.D BFB Injection Date: 06/29/2021

Instrument ID: MS BFB Injection Time: 07:42

Analysis Batch No.: 51283

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.7	
75	30.0 - 60.0 % of mass 95	48.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.6	(0.5) 1
174	Greater than 50% of mass 95	106.0	
175	5.0 - 9.0 % of mass 174	7.2	(6.8) 1
176	95.0 - 101.0 % of mass 174	100.7	(95.1) 1
177	5.0 - 9.0 % of mass 176	6.6	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-51283/2	SCCVF29.D	06/29/2021	8:12
	LCS 140-51283/1002	SCCVF29-LCS.d	06/29/2021	8:12
	MB 140-51283/4	S500BF29.D	06/29/2021	9:51
SVE - 1	140-23523-3	SF29P116.D	06/30/2021	3:29

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Sample No.: ICIS 140-51007/16 Date Analyzed: 06/19/2021 18:49

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): RF19IC07.D Heated Purge: (Y/N) N

Calibration ID: 3105

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		324554	8.79	1539588	11.01	1474901	15.82
UPPER LIMIT		454376	9.12	2155423	11.34	2064861	16.15
LOWER LIMIT		194732	8.46	923753	10.68	884941	15.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 140-51007/19		303600	8.79	1450698	11.00	1391239	15.82

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO 15 LL

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Sample No.: CCVIS 140-51274/2 Date Analyzed: 06/28/2021 08:03

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): RCCVF28.D Heated Purge: (Y/N) N

Calibration ID: 3105

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		264071	8.78	1282467	11.00	1127080	15.82
UPPER LIMIT		369699	9.11	1795454	11.33	1577912	16.15
LOWER LIMIT		158443	8.45	769480	10.67	676248	15.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-51274/1002		264071	8.78	1282467	11.00	1127080	15.82
MB 140-51274/8		281294	8.79	1281653	11.00	1115753	15.82
140-23523-1	HSVE SHALLOW	276537	8.79	1188610	11.00	1052374	15.82

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO 15 LL

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Sample No.: CCVIS 140-51316/2 Date Analyzed: 06/30/2021 08:50

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): RCCVF30.D Heated Purge: (Y/N) N

Calibration ID: 3105

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		284908	8.79	1350914	11.00	1228118	15.82
UPPER LIMIT		398871	9.12	1891280	11.33	1719365	16.15
LOWER LIMIT		170945	8.46	810548	10.67	736871	15.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-51316/1002		284908	8.79	1350914	11.00	1228118	15.82
MB 140-51316/4		273036	8.79	1266409	11.00	1114804	15.82
140-23523-2	HSVE DEEP	379290	8.77	1709184	10.99	1496716	15.81

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO 15 LL

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Sample No.: ICIS 140-50646/15 Date Analyzed: 06/09/2021 23:44

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): SF09IC07.D Heated Purge: (Y/N) N

Calibration ID: 3095

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		216764	9.23	1091989	11.40	934893	16.07
UPPER LIMIT		303470	9.56	1528785	11.73	1308850	16.40
LOWER LIMIT		130058	8.90	655193	11.07	560936	15.74
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 140-50646/17		223156	9.23	1116504	11.40	962998	16.07

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO 15 LL

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Sample No.: CCVIS 140-51283/2 Date Analyzed: 06/29/2021 08:12

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): SCCVF29.D Heated Purge: (Y/N) N

Calibration ID: 3095

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		195219	9.22	979316	11.40	843518	16.07
UPPER LIMIT		273307	9.55	1371042	11.73	1180925	16.40
LOWER LIMIT		117131	8.89	587590	11.07	506111	15.74
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-51283/1002		195219	9.22	979316	11.40	843518	16.07
MB 140-51283/4		214048	9.22	1063822	11.40	877086	16.07
140-23523-3	SVE - 1	192512	9.21	957812	11.39	797770	16.07

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO 15 LL

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: HSVE SHALLOW Lab Sample ID: 140-23523-1

Matrix: Air Lab File ID: RF28P202.D

Analysis Method: TO 15 LL Date Collected: 06/15/2021 02:42

Sample wt/vol: 20(mL) Date Analyzed: 06/29/2021 01:51

Soil Aliquot Vol: Dilution Factor: 33.59

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51274 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	74		67	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		67	
79-00-5	1,1,2-Trichloroethane	133.41	ND		67	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		67	
75-34-3	1,1-Dichloroethane	98.96	ND		67	
75-35-4	1,1-Dichloroethene	96.94	ND		34	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		67	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		67	
106-93-4	1,2-Dibromoethane	187.87	ND		67	
95-50-1	1,2-Dichlorobenzene	147.00	ND		67	
107-06-2	1,2-Dichloroethane	98.96	ND		67	
78-87-5	1,2-Dichloropropane	112.99	ND		67	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		67	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		67	
541-73-1	1,3-Dichlorobenzene	147.00	ND		67	
106-46-7	1,4-Dichlorobenzene	147.00	ND		67	
123-91-1	1,4-Dioxane	88.11	ND		170	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		170	
78-93-3	2-Butanone	72.11	ND		270	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		170	
71-43-2	Benzene	78.11	ND		67	
100-44-7	Benzyl chloride	126.58	ND	*+	130	
75-27-4	Bromodichloromethane	163.83	ND		67	
75-25-2	Bromoform	252.75	ND		67	
74-83-9	Bromomethane	94.94	ND		67	
56-23-5	Carbon tetrachloride	153.81	ND		27	
108-90-7	Chlorobenzene	112.56	ND		67	
75-00-3	Chloroethane	64.52	ND		67	
67-66-3	Chloroform	119.38	ND		67	
74-87-3	Chloromethane	50.49	ND		170	
156-59-2	cis-1,2-Dichloroethene	96.94	250		34	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		67	
110-82-7	Cyclohexane	84.16	ND		170	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: HSVE SHALLOW Lab Sample ID: 140-23523-1

Matrix: Air Lab File ID: RF28P202.D

Analysis Method: TO 15 LL Date Collected: 06/15/2021 02:42

Sample wt/vol: 20(mL) Date Analyzed: 06/29/2021 01:51

Soil Aliquot Vol: Dilution Factor: 33.59

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51274 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.28	ND		67	
75-71-8	Dichlorodifluoromethane	120.91	ND		67	
64-17-5	Ethanol	46.07	ND		1700	
100-41-4	Ethylbenzene	106.17	ND		67	
87-68-3	Hexachlorobutadiene	260.76	ND		67	
110-54-3	Hexane	86.17	ND		170	
1634-04-4	Methyl tert-butyl ether	88.15	ND		130	
75-09-2	Methylene Chloride	84.93	ND		340	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		67	
91-20-3	Naphthalene	128.17	ND		170	
95-47-6	o-Xylene	106.17	ND		67	
100-42-5	Styrene	104.15	ND		67	
75-65-0	t-Butyl alcohol	74.12	ND		270	
127-18-4	Tetrachloroethene	165.83	ND		67	
108-88-3	Toluene	92.14	ND		100	
156-60-5	trans-1,2-Dichloroethene	96.94	79		67	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		67	
79-01-6	Trichloroethene	131.39	4800		30	
75-69-4	Trichlorofluoromethane	137.37	ND		67	
75-01-4	Vinyl chloride	62.50	ND		34	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: HSVE SHALLOW Lab Sample ID: 140-23523-1

Matrix: Air Lab File ID: RF28P202.D

Analysis Method: TO 15 LL Date Collected: 06/15/2021 02:42

Sample wt/vol: 20(mL) Date Analyzed: 06/29/2021 01:51

Soil Aliquot Vol: Dilution Factor: 33.59

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51274 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	410		370	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		460	
79-00-5	1,1,2-Trichloroethane	133.41	ND		370	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		510	
75-34-3	1,1-Dichloroethane	98.96	ND		270	
75-35-4	1,1-Dichloroethene	96.94	ND		130	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		500	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		330	
106-93-4	1,2-Dibromoethane	187.87	ND		520	
95-50-1	1,2-Dichlorobenzene	147.00	ND		400	
107-06-2	1,2-Dichloroethane	98.96	ND		270	
78-87-5	1,2-Dichloropropane	112.99	ND		310	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		470	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		330	
541-73-1	1,3-Dichlorobenzene	147.00	ND		400	
106-46-7	1,4-Dichlorobenzene	147.00	ND		400	
123-91-1	1,4-Dioxane	88.11	ND		610	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		780	
78-93-3	2-Butanone	72.11	ND		790	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		690	
71-43-2	Benzene	78.11	ND		210	
100-44-7	Benzyl chloride	126.58	ND	*+	700	
75-27-4	Bromodichloromethane	163.83	ND		450	
75-25-2	Bromoform	252.75	ND		690	
74-83-9	Bromomethane	94.94	ND		260	
56-23-5	Carbon tetrachloride	153.81	ND		170	
108-90-7	Chlorobenzene	112.56	ND		310	
75-00-3	Chloroethane	64.52	ND		180	
67-66-3	Chloroform	119.38	ND		330	
74-87-3	Chloromethane	50.49	ND		350	
156-59-2	cis-1,2-Dichloroethene	96.94	990		130	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		300	
110-82-7	Cyclohexane	84.16	ND		580	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: HSVE SHALLOW Lab Sample ID: 140-23523-1

Matrix: Air Lab File ID: RF28P202.D

Analysis Method: TO 15 LL Date Collected: 06/15/2021 02:42

Sample wt/vol: 20(mL) Date Analyzed: 06/29/2021 01:51

Soil Aliquot Vol: Dilution Factor: 33.59

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51274 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.28	ND		570	
75-71-8	Dichlorodifluoromethane	120.91	ND		330	
64-17-5	Ethanol	46.07	ND		3200	
100-41-4	Ethylbenzene	106.17	ND		290	
87-68-3	Hexachlorobutadiene	260.76	ND		720	
110-54-3	Hexane	86.17	ND		590	
1634-04-4	Methyl tert-butyl ether	88.15	ND		480	
75-09-2	Methylene Chloride	84.93	ND		1200	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		290	
91-20-3	Naphthalene	128.17	ND		880	
95-47-6	o-Xylene	106.17	ND		290	
100-42-5	Styrene	104.15	ND		290	
75-65-0	t-Butyl alcohol	74.12	ND		810	
127-18-4	Tetrachloroethene	165.83	ND		460	
108-88-3	Toluene	92.14	ND		380	
156-60-5	trans-1,2-Dichloroethene	96.94	310		270	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		300	
79-01-6	Trichloroethene	131.39	26000		160	
75-69-4	Trichlorofluoromethane	137.37	ND		380	
75-01-4	Vinyl chloride	62.50	ND		86	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		60-140

Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MR\20210627-19739.b\RF28P202.D
Lims ID: 140-23523-A-1
Client ID: HSVE SHALLOW
Sample Type: Client
Inject. Date: 29-Jun-2021 01:51:30 ALS Bottle#: 2 Worklist Smp#: 26
Purge Vol: 500.000 mL Dil. Factor: 33.5900
Sample Info: 140-0019739-026
Misc. Info.: 140-23523-a-1@33.59
Operator ID: HMT Instrument ID: MR

Method: \\chromfs\Knoxville\ChromData\MR\20210627-19739.b\MR_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 29-Jun-2021 13:48:29 Calib Date: 19-Jun-2021 18:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: khachitpongpanits Date: 29-Jun-2021 13:54:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.787	8.781	0.005	96	276537	4.80	
* 2 1,4-Difluorobenzene	114	11.003	10.998	0.005	96	1188610	4.80	
* 3 Chlorobenzene-d5 (IS)	117	15.818	15.824	-0.006	89	1052374	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.468	17.462	0.000	89	763962	4.64	
34 trans-1,2-Dichloroethene	96	7.002	7.007	-0.005	92	6803	0.0942	
37 1,1-Dichloroethane	63	7.438	7.443	-0.001	95	3195	0.0223	
42 cis-1,2-Dichloroethene	96	8.447	8.447	0.005	99	23224	0.2972	
44 Chloroform	83	8.781	8.797	-0.011	27	1575	0.0100	
47 1,1,1-Trichloroethane	97	9.843	9.833	0.010	94	13913	0.0884	
55 Isooctane	57	11.202	11.213	-0.006	96	8778	0.0243	
58 Trichloroethene	130	11.715	11.715	0.000	92	524433	5.74	
73 Tetrachloroethene	129	14.977	14.977	-0.005	91	3093	0.0345	

QC Flag Legend

Processing Flags

Reagents:

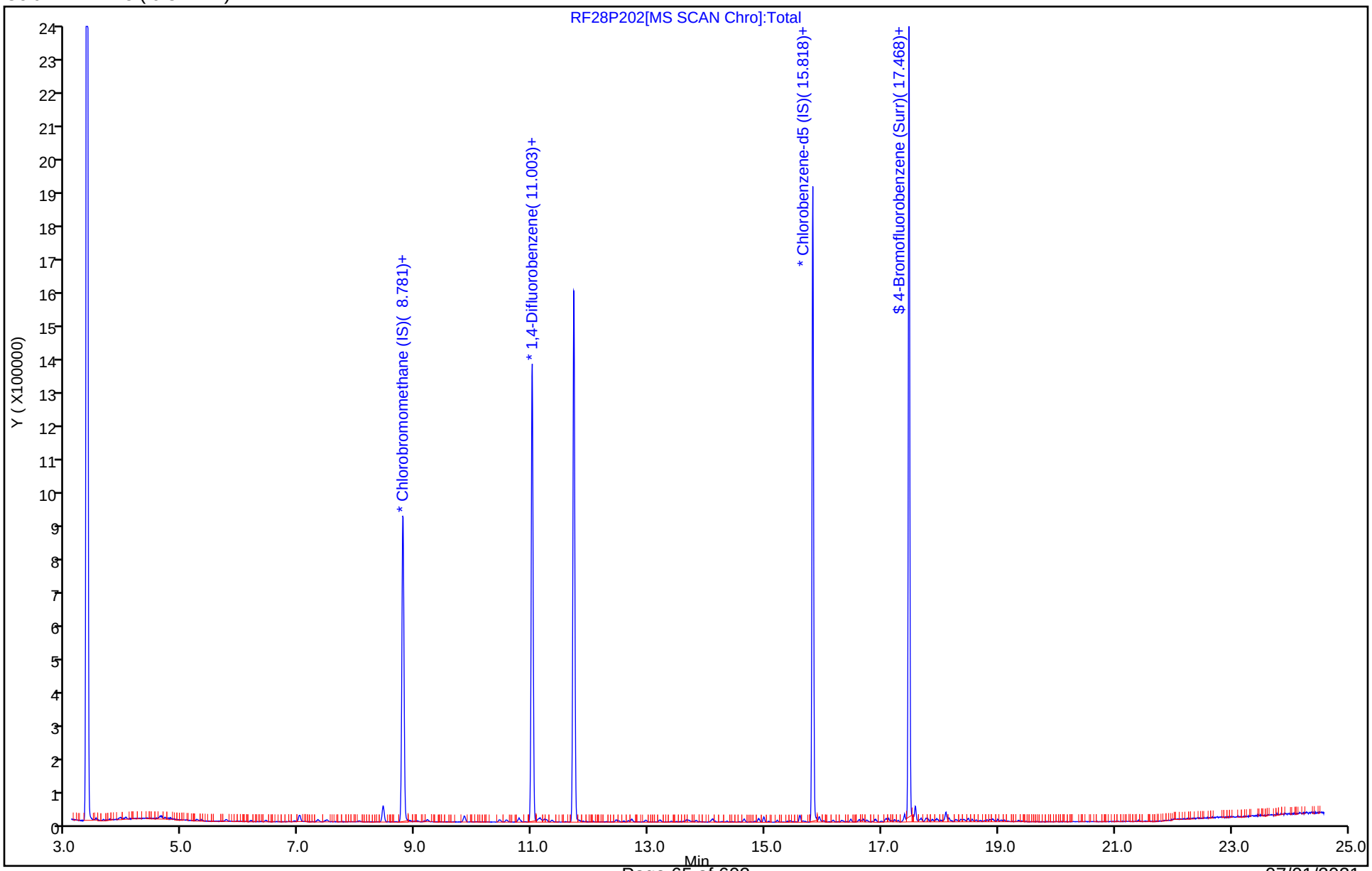
40MXISSUR_00001 Amount Added: 40.00 Units: mL Run Reagent

Report Date: 29-Jun-2021 13:54:12 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210627-19739.b\RF28P202.D				
Injection Date:	29-Jun-2021 01:51:30	Instrument ID:	MR	Operator ID:	HMT
Lims ID:	140-23523-A-1	Lab Sample ID:	140-23523-1	Worklist Smp#:	26
Client ID:	HSVE SHALLOW				
Purge Vol:	500.000 mL	Dil. Factor:	33.5900	ALS Bottle#:	2
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Eurofins TestAmerica, Knoxville
Recovery Report

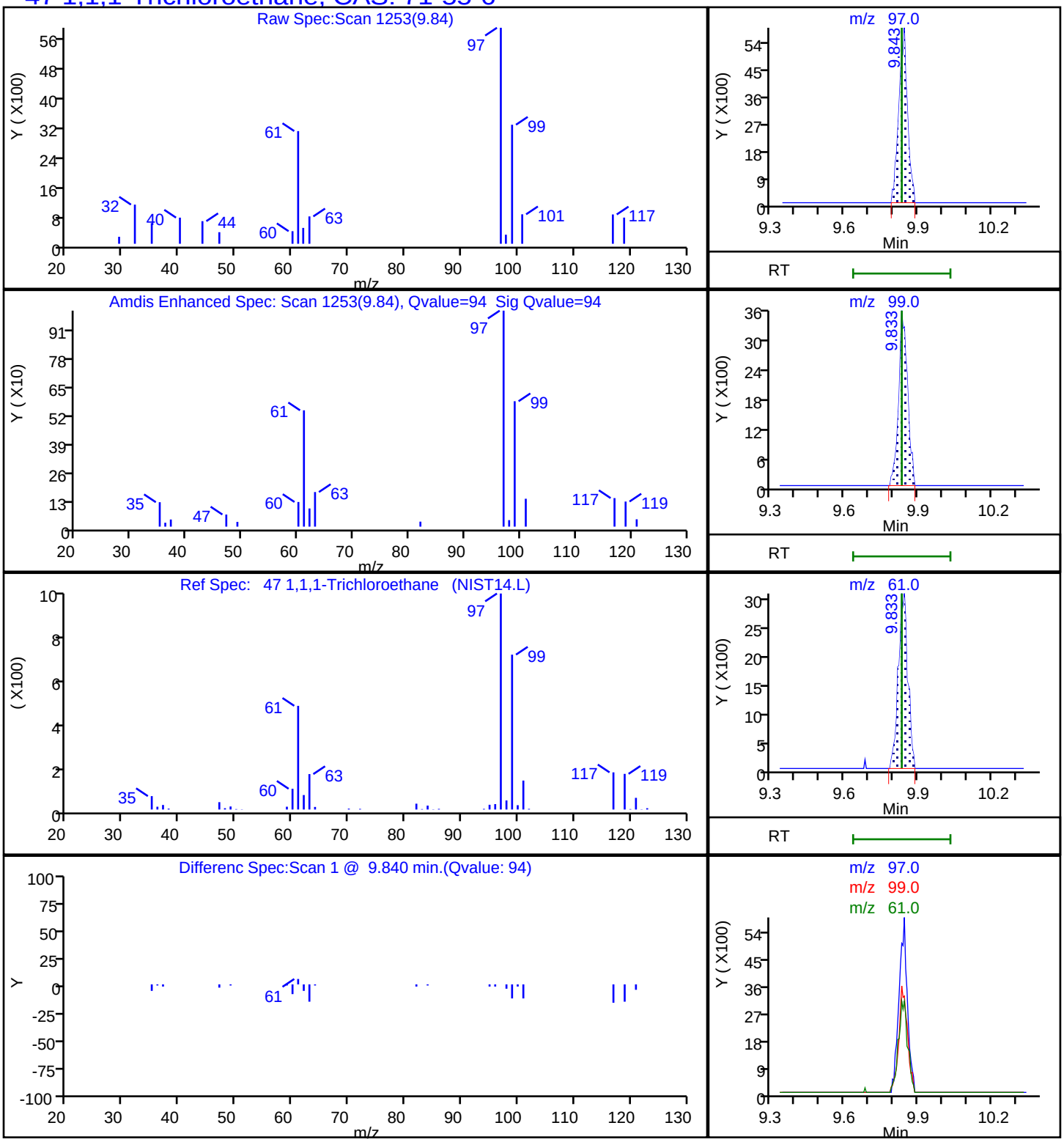
Data File:	\\chromfs\Knoxville\ChromData\MR\20210627-19739.b\RF28P202.D				
Lims ID:	140-23523-A-1				
Client ID:	HSVE SHALLOW				
Sample Type:	Client				
Inject. Date:	29-Jun-2021 01:51:30	ALS Bottle#:	2	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	33.5900		
Sample Info:	140-0019739-026				
Misc. Info.:	140-23523-a-1@33.59				
Operator ID:	HMT	Instrument ID:	MR		
Method:	\\chromfs\Knoxville\ChromData\MR\20210627-19739.b\MR_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	29-Jun-2021 13:48:29	Calib Date:	19-Jun-2021 18:49:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	CTX1663				
First Level Reviewer: khachitpongpanits		Date:	29-Jun-2021 13:54:12		

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.64	4.64	100.10

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210627-19739.b\RF28P202.D		
Injection Date:	29-Jun-2021 01:51:30	Instrument ID:	MR
Lims ID:	140-23523-A-1	Lab Sample ID:	140-23523-1
Client ID:	HSVE SHALLOW		
Operator ID:	HMT	ALS Bottle#:	2 Worklist Smp#: 26
Purge Vol:	500.000 mL	Dil. Factor:	33.5900
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

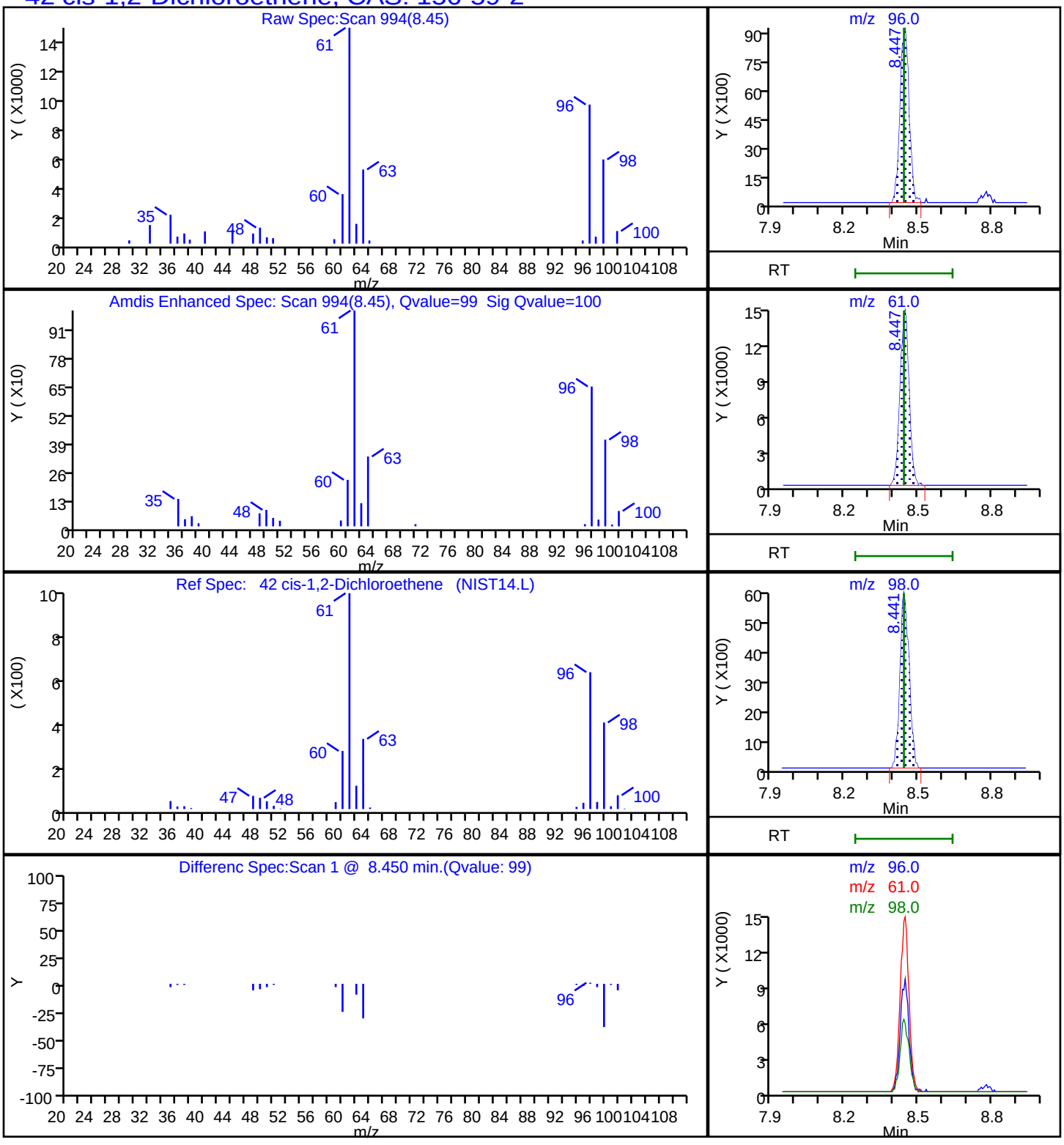
47 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210627-19739.b\RF28P202.D		
Injection Date:	29-Jun-2021 01:51:30	Instrument ID:	MR
Lims ID:	140-23523-A-1	Lab Sample ID:	140-23523-1
Client ID:	HSVE SHALLOW		
Operator ID:	HMT	ALS Bottle#:	2 Worklist Smp#: 26
Purge Vol:	500.000 mL	Dil. Factor:	33.5900
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

42 cis-1,2-Dichloroethene, CAS: 156-59-2

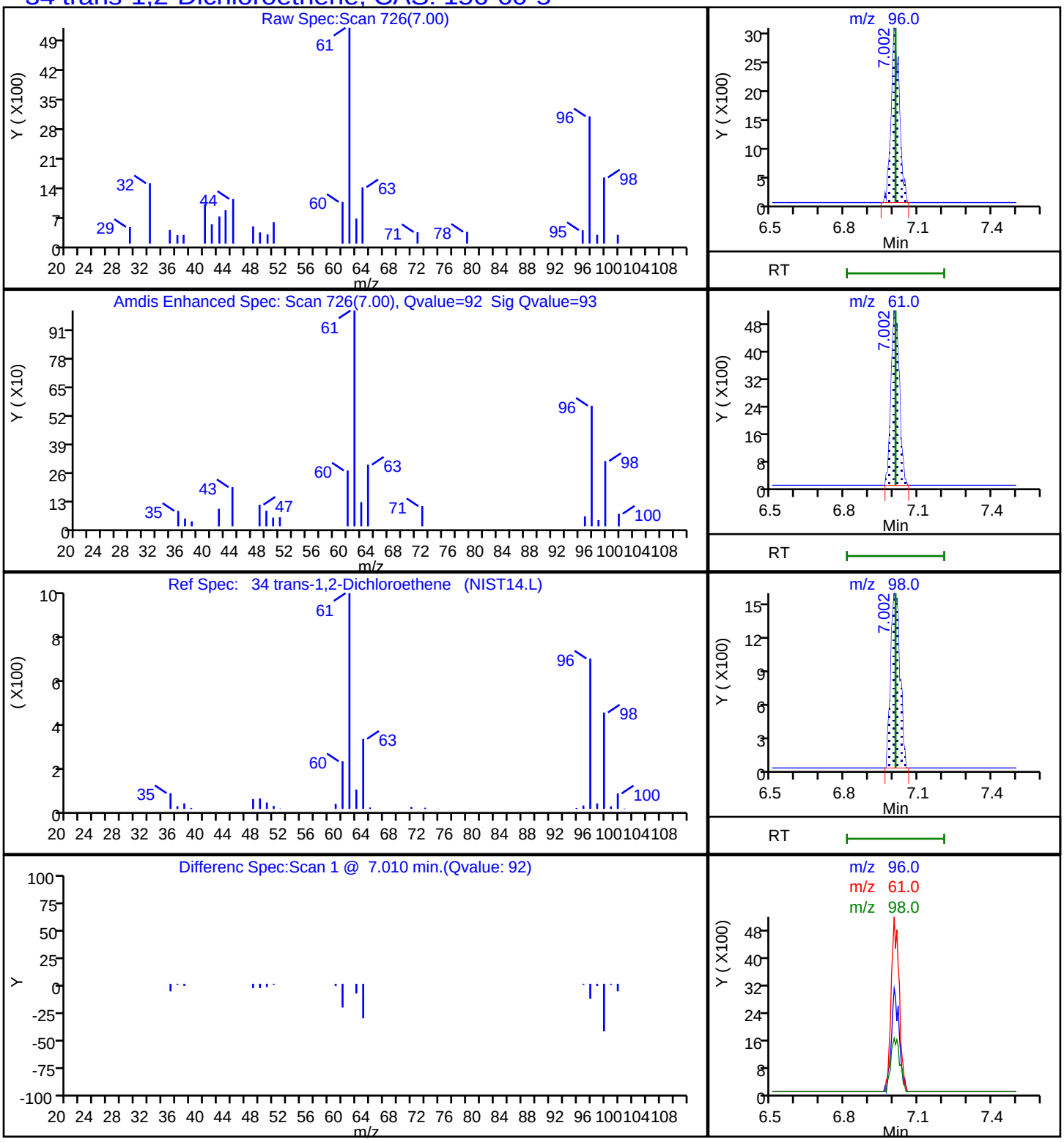


Report Date: 29-Jun-2021 13:54:12 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210627-19739.b\RF28P202.D				
Injection Date:	29-Jun-2021 01:51:30	Instrument ID:	MR		
Lims ID:	140-23523-A-1	Lab Sample ID:	140-23523-1		
Client ID:	HSVE SHALLOW				
Operator ID:	HMT	ALS Bottle#:	2	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	33.5900		
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

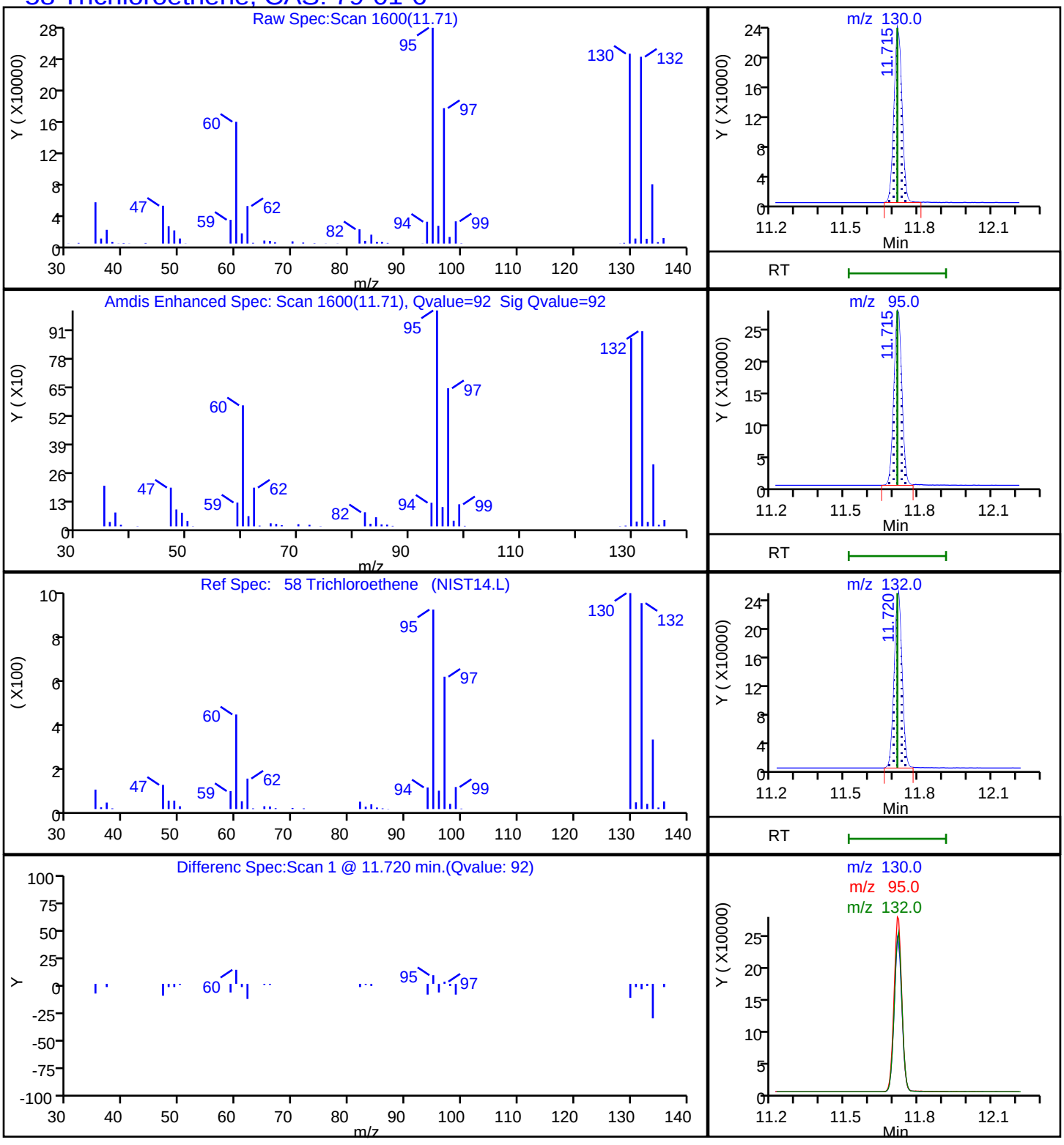
34 trans-1,2-Dichloroethene, CAS: 156-60-5



Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210627-19739.b\RF28P202.D		
Injection Date:	29-Jun-2021 01:51:30	Instrument ID:	MR
Lims ID:	140-23523-A-1	Lab Sample ID:	140-23523-1
Client ID:	HSVE SHALLOW		
Operator ID:	HMT	ALS Bottle#:	2 Worklist Smp#: 26
Purge Vol:	500.000 mL	Dil. Factor:	33.5900
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

58 Trichloroethene, CAS: 79-01-6



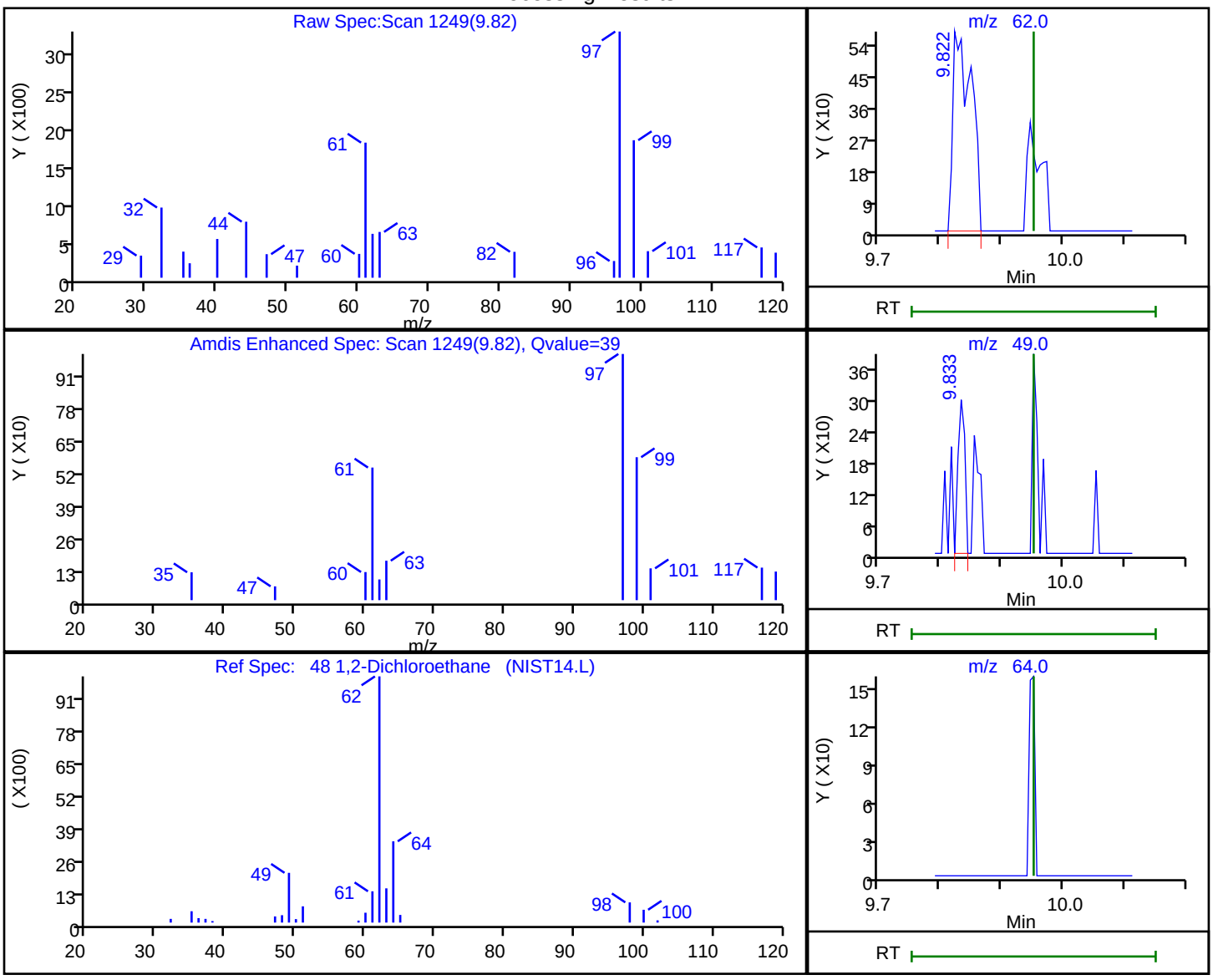
User Disabled Compound Report

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210627-19739.b\RF28P202.D				
Injection Date:	29-Jun-2021 01:51:30	Instrument ID:	MR		
Lims ID:	140-23523-A-1	Lab Sample ID:	140-23523-1		
Client ID:	HSVE SHALLOW				
Operator ID:	HMT	ALS Bottle#:	2	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	33.5900		
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
9.82	62.00	1220	0.011896
9.83	49.00	232	
9.95	64.00	0	

Reviewer: khachitpongpanits, 29-Jun-2021 13:48:05

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

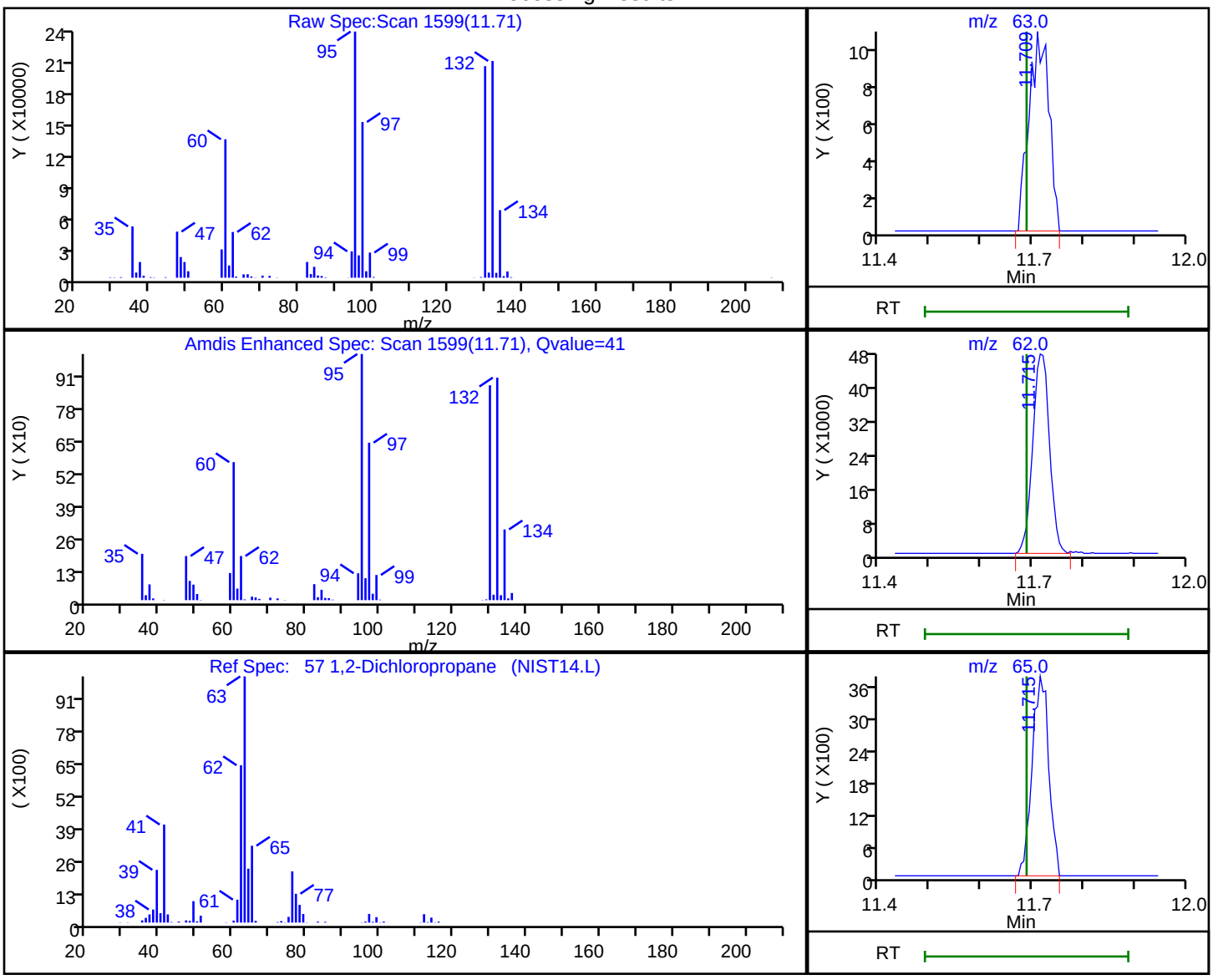
User Disabled Compound Report

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210627-19739.b\RF28P202.D				
Injection Date:	29-Jun-2021 01:51:30	Instrument ID:	MR		
Lims ID:	140-23523-A-1	Lab Sample ID:	140-23523-1		
Client ID:	HSVE SHALLOW				
Operator ID:	HMT	ALS Bottle#:	2	Worklist Smp#:	26
Purge Vol:	500.000 mL	Dil. Factor:	33.5900		
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

57 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
11.71	63.00	2836	0.032716
11.71	62.00	108283	
11.71	65.00	8585	

Reviewer: khachitpongpanits, 29-Jun-2021 13:48:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: HSVE DEEP Lab Sample ID: 140-23523-2

Matrix: Air Lab File ID: RF30P103.D

Analysis Method: TO 15 LL Date Collected: 06/15/2021 04:59

Sample wt/vol: 70(mL) Date Analyzed: 06/30/2021 17:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51316 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	0.79		0.57	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.57	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.57	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.57	
75-34-3	1,1-Dichloroethane	98.96	ND		0.57	
75-35-4	1,1-Dichloroethene	96.94	ND		0.29	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.57	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND	*+	0.57	
106-93-4	1,2-Dibromoethane	187.87	ND		0.57	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.57	
107-06-2	1,2-Dichloroethane	98.96	ND		0.57	
78-87-5	1,2-Dichloropropane	112.99	ND		0.57	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.57	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.57	
541-73-1	1,3-Dichlorobenzene	147.00	1.1		0.57	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.57	
123-91-1	1,4-Dioxane	88.11	ND		1.4	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		1.4	
78-93-3	2-Butanone	72.11	ND		2.3	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		1.4	
71-43-2	Benzene	78.11	ND		0.57	
100-44-7	Benzyl chloride	126.58	ND	*+	1.1	
75-27-4	Bromodichloromethane	163.83	ND		0.57	
75-25-2	Bromoform	252.75	ND		0.57	
74-83-9	Bromomethane	94.94	ND		0.57	
56-23-5	Carbon tetrachloride	153.81	ND	*+	0.23	
108-90-7	Chlorobenzene	112.56	ND		0.57	
75-00-3	Chloroethane	64.52	ND		0.57	
67-66-3	Chloroform	119.38	ND		0.57	
74-87-3	Chloromethane	50.49	ND		1.4	
156-59-2	cis-1,2-Dichloroethene	96.94	9.2		0.29	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.57	
110-82-7	Cyclohexane	84.16	ND		1.4	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: HSVE DEEP Lab Sample ID: 140-23523-2

Matrix: Air Lab File ID: RF30P103.D

Analysis Method: TO 15 LL Date Collected: 06/15/2021 04:59

Sample wt/vol: 70(mL) Date Analyzed: 06/30/2021 17:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51316 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.28	ND		0.57	
75-71-8	Dichlorodifluoromethane	120.91	0.60		0.57	
64-17-5	Ethanol	46.07	18		14	
100-41-4	Ethylbenzene	106.17	ND		0.57	
87-68-3	Hexachlorobutadiene	260.76	ND		0.57	
110-54-3	Hexane	86.17	ND		1.4	
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.1	
75-09-2	Methylene Chloride	84.93	ND		2.9	
179601-23-1	m-Xylene & p-Xylene	106.17	0.61		0.57	
91-20-3	Naphthalene	128.17	ND		1.4	
95-47-6	o-Xylene	106.17	ND		0.57	
100-42-5	Styrene	104.15	ND		0.57	
75-65-0	t-Butyl alcohol	74.12	ND		2.3	
127-18-4	Tetrachloroethene	165.83	ND		0.57	
108-88-3	Toluene	92.14	ND		0.86	
156-60-5	trans-1,2-Dichloroethene	96.94	1.1		0.57	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.57	
79-01-6	Trichloroethene	131.39	43		0.26	
75-69-4	Trichlorofluoromethane	137.37	ND		0.57	
75-01-4	Vinyl chloride	62.50	ND		0.29	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: HSVE DEEP Lab Sample ID: 140-23523-2

Matrix: Air Lab File ID: RF30P103.D

Analysis Method: TO 15 LL Date Collected: 06/15/2021 04:59

Sample wt/vol: 70(mL) Date Analyzed: 06/30/2021 17:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51316 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	4.3		3.1	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		3.9	
79-00-5	1,1,2-Trichloroethane	133.41	ND		3.1	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		4.4	
75-34-3	1,1-Dichloroethane	98.96	ND		2.3	
75-35-4	1,1-Dichloroethene	96.94	ND		1.1	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		4.2	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND	*+	2.8	
106-93-4	1,2-Dibromoethane	187.87	ND		4.4	
95-50-1	1,2-Dichlorobenzene	147.00	ND		3.4	
107-06-2	1,2-Dichloroethane	98.96	ND		2.3	
78-87-5	1,2-Dichloropropane	112.99	ND		2.6	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		4.0	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		2.8	
541-73-1	1,3-Dichlorobenzene	147.00	6.5		3.4	
106-46-7	1,4-Dichlorobenzene	147.00	ND		3.4	
123-91-1	1,4-Dioxane	88.11	ND		5.1	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		6.7	
78-93-3	2-Butanone	72.11	ND		6.7	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		5.9	
71-43-2	Benzene	78.11	ND		1.8	
100-44-7	Benzyl chloride	126.58	ND	*+	5.9	
75-27-4	Bromodichloromethane	163.83	ND		3.8	
75-25-2	Bromoform	252.75	ND		5.9	
74-83-9	Bromomethane	94.94	ND		2.2	
56-23-5	Carbon tetrachloride	153.81	ND	*+	1.4	
108-90-7	Chlorobenzene	112.56	ND		2.6	
75-00-3	Chloroethane	64.52	ND		1.5	
67-66-3	Chloroform	119.38	ND		2.8	
74-87-3	Chloromethane	50.49	ND		3.0	
156-59-2	cis-1,2-Dichloroethene	96.94	36		1.1	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		2.6	
110-82-7	Cyclohexane	84.16	ND		4.9	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: HSVE DEEP Lab Sample ID: 140-23523-2

Matrix: Air Lab File ID: RF30P103.D

Analysis Method: TO 15 LL Date Collected: 06/15/2021 04:59

Sample wt/vol: 70(mL) Date Analyzed: 06/30/2021 17:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51316 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.28	ND		4.9	
75-71-8	Dichlorodifluoromethane	120.91	3.0		2.8	
64-17-5	Ethanol	46.07	34		27	
100-41-4	Ethylbenzene	106.17	ND		2.5	
87-68-3	Hexachlorobutadiene	260.76	ND		6.1	
110-54-3	Hexane	86.17	ND		5.0	
1634-04-4	Methyl tert-butyl ether	88.15	ND		4.1	
75-09-2	Methylene Chloride	84.93	ND		9.9	
179601-23-1	m-Xylene & p-Xylene	106.17	2.7		2.5	
91-20-3	Naphthalene	128.17	ND		7.5	
95-47-6	o-Xylene	106.17	ND		2.5	
100-42-5	Styrene	104.15	ND		2.4	
75-65-0	t-Butyl alcohol	74.12	ND		6.9	
127-18-4	Tetrachloroethene	165.83	ND		3.9	
108-88-3	Toluene	92.14	ND		3.2	
156-60-5	trans-1,2-Dichloroethene	96.94	4.4		2.3	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		2.6	
79-01-6	Trichloroethene	131.39	230		1.4	
75-69-4	Trichlorofluoromethane	137.37	ND		3.2	
75-01-4	Vinyl chloride	62.50	ND		0.73	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RF30P103.D
Lims ID: 140-23523-A-2
Client ID: HSVE DEEP
Sample Type: Client
Inject. Date: 30-Jun-2021 17:53:30 ALS Bottle#: 3 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019757-013
Misc. Info.: 140-23523-a-2
Operator ID: HMT Instrument ID: MR

Method: \\chromfs\Knoxville\ChromData\MR\20210629-19757.b\MR_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 01-Jul-2021 14:15:32 Calib Date: 19-Jun-2021 18:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: khachitpongpanits Date: 01-Jul-2021 14:15:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.770	8.786	-0.016	97	379290	4.80	
* 2 1,4-Difluorobenzene	114	10.992	11.003	-0.011	96	1709184	4.80	
* 3 Chlorobenzene-d5 (IS)	117	15.813	15.824	-0.011	89	1496716	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.468	17.474	-0.006	91	1118980	4.78	
8 Dichlorodifluoromethane	85	3.604	3.604	0.000	99	23403	0.0845	
9 Chloromethane	52	3.788	3.788	0.000	96	1937	0.0690	
17 Ethanol	31	4.602	4.602	0.000	97	106661	2.56	
20 Trichlorofluoromethane	101	5.093	5.095	-0.005	96	15772	0.0591	
28 2-Methyl-2-propanol	59	5.950	5.903	0.043	96	10929	0.0587	
30 112TCTFE	101	5.982	5.991	-0.017	87	2392	0.0109	
34 trans-1,2-Dichloroethene	96	6.996	7.003	-0.011	95	15245	0.1540	
37 1,1-Dichloroethane	63	7.438	7.439	-0.006	97	5895	0.0300	
39 2-Butanone (MEK)	72	8.015	7.999	0.016	93	4349	0.0823	
40 Hexane	56	8.015	8.016	-0.006	58	3903	0.0452	
42 cis-1,2-Dichloroethene	96	8.436	8.447	-0.016	98	137404	1.28	
44 Chloroform	83	8.786	8.792	-0.011	27	3806	0.0175	
47 1,1,1-Trichloroethane	97	9.827	9.832	-0.011	96	23923	0.1109	
50 Cyclohexane	69	10.437	10.442	-0.010	56	1353	0.0295	
51 Benzene	78	10.442	10.453	-0.011	63	5771	0.0199	
52 Carbon tetrachloride	117	10.463	10.464	-0.006	50	2503	0.0133	
55 Isooctane	57	11.202	11.213	-0.011	95	49462	0.0953	
58 Trichloroethene	130	11.709	11.725	-0.016	93	795025	6.05	
67 Toluene	91	13.807	13.828	-0.021	92	29213	0.0848	
68 1,1,2-Trichloroethane	83	13.882	13.909	-0.027	13	1055	0.0100	
73 Tetrachloroethene	129	14.972	14.988	-0.016	90	3611	0.0283	
74 Chlorobenzene	112	15.861	15.861	-0.011	1	3566	0.0140	a
76 Ethylbenzene	91	16.152	16.163	-0.011	98	12097	0.0274	
77 m-Xylene & p-Xylene	91	16.309	16.320	-0.011	97	29930	0.0857	
81 o-Xylene	91	16.843	16.848	-0.005	93	15782	0.0431	
92 1,2,4-Trimethylbenzene	105	18.628	18.628	0.000	98	21447	0.0509	
94 1,3-Dichlorobenzene	146	18.903	18.903	0.000	96	42403	0.1517	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

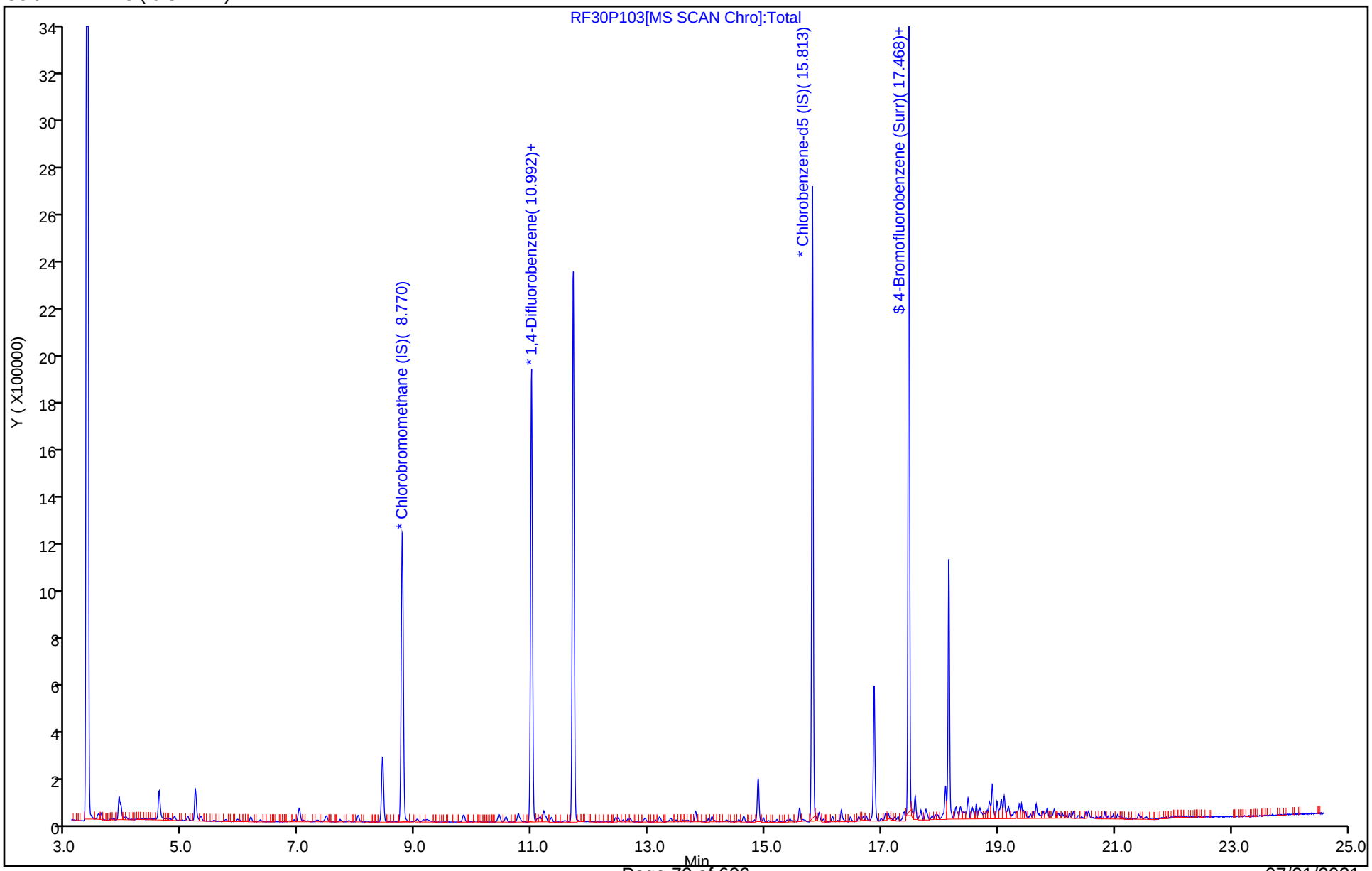
40MXISSUR_00001	Amount Added:	40.00	Units: mL	Run Reagent

Report Date: 01-Jul-2021 14:15:32 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RF30P103.D				
Injection Date:	30-Jun-2021 17:53:30	Instrument ID:	MR	Operator ID:	HMT
Lims ID:	140-23523-A-2	Lab Sample ID:	140-23523-2	Worklist Smp#:	13
Client ID:	HSVE DEEP				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Eurofins TestAmerica, Knoxville
Recovery Report

Data File:	\\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RF30P103.D				
Lims ID:	140-23523-A-2				
Client ID:	HSVE DEEP				
Sample Type:	Client				
Inject. Date:	30-Jun-2021 17:53:30	ALS Bottle#:	3	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	140-0019757-013				
Misc. Info.:	140-23523-a-2				
Operator ID:	HMT	Instrument ID:	MR		
Method:	\\chromfs\Knoxville\ChromData\MR\20210629-19757.b\MR_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	01-Jul-2021 14:15:32	Calib Date:	19-Jun-2021 18:49:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	CTX1621				

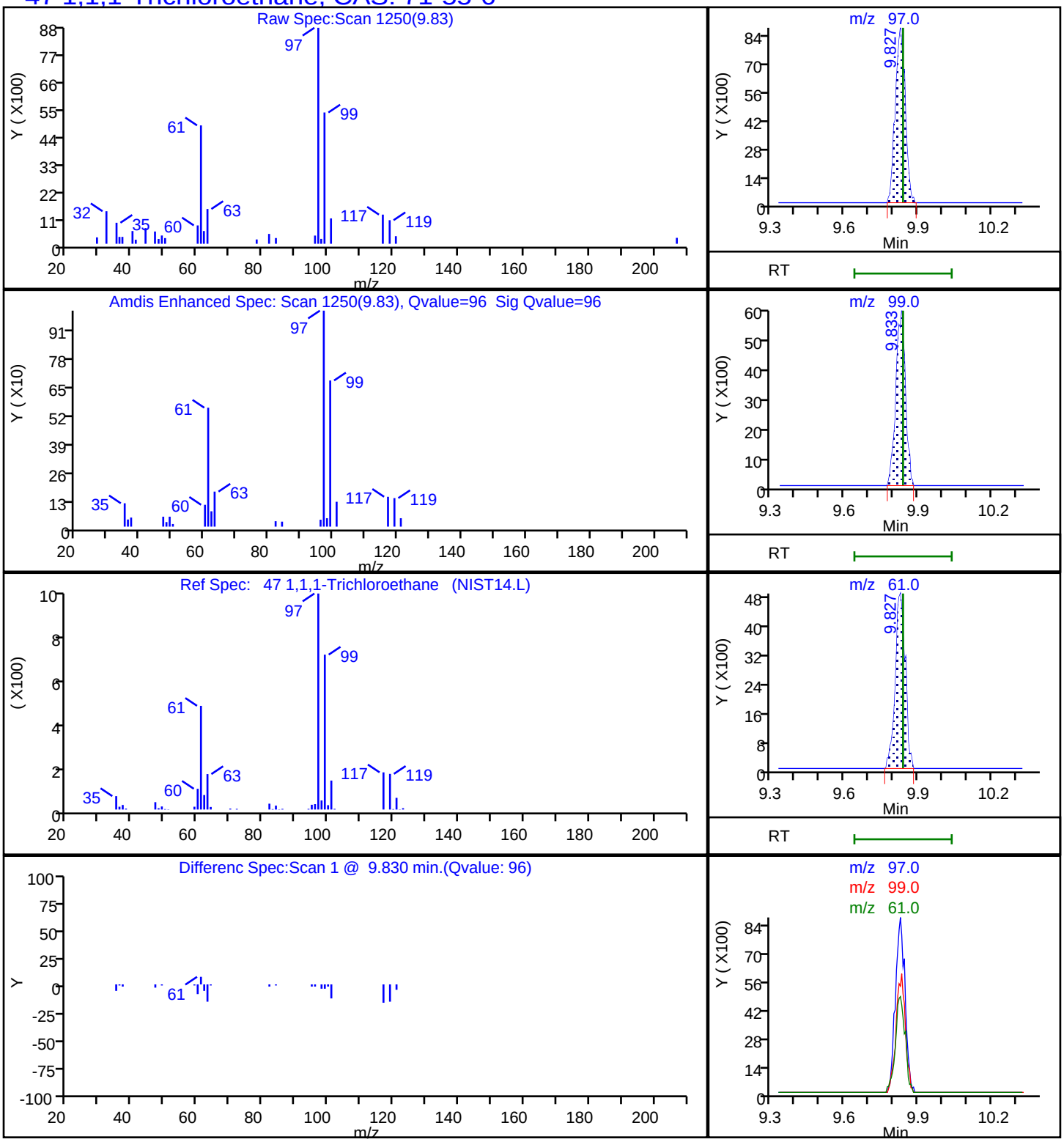
First Level Reviewer: khachitpongpanits Date: 01-Jul-2021 14:15:32

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.64	4.78	103.09

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RF30P103.D				
Injection Date:	30-Jun-2021 17:53:30	Instrument ID:	MR		
Lims ID:	140-23523-A-2	Lab Sample ID:	140-23523-2		
Client ID:	HSVE DEEP				
Operator ID:	HMT	ALS Bottle#:	3	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

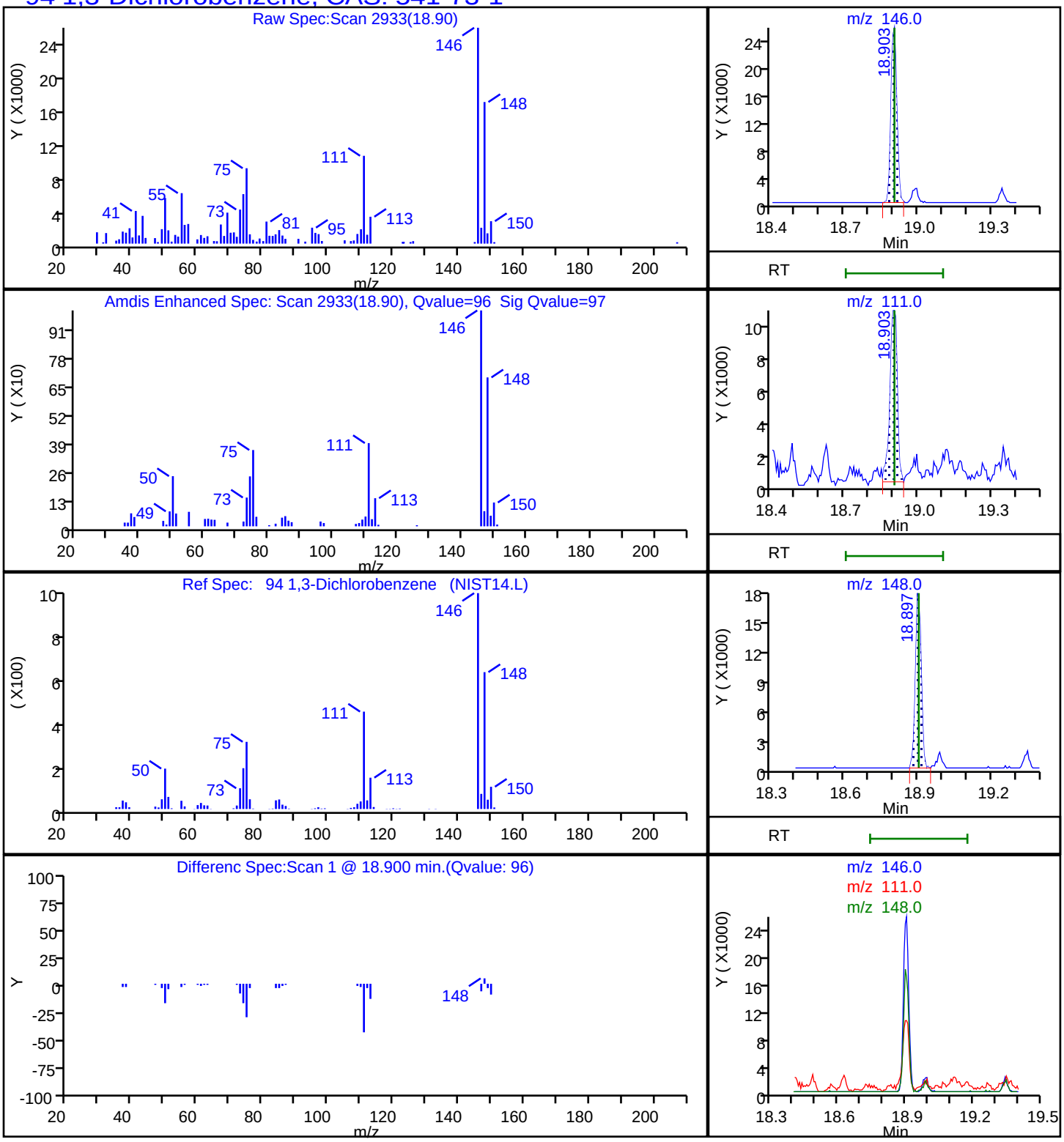
47 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RF30P103.D		
Injection Date:	30-Jun-2021 17:53:30	Instrument ID:	MR
Lims ID:	140-23523-A-2	Lab Sample ID:	140-23523-2
Client ID:	HSVE DEEP		
Operator ID:	HMT	ALS Bottle#:	3 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

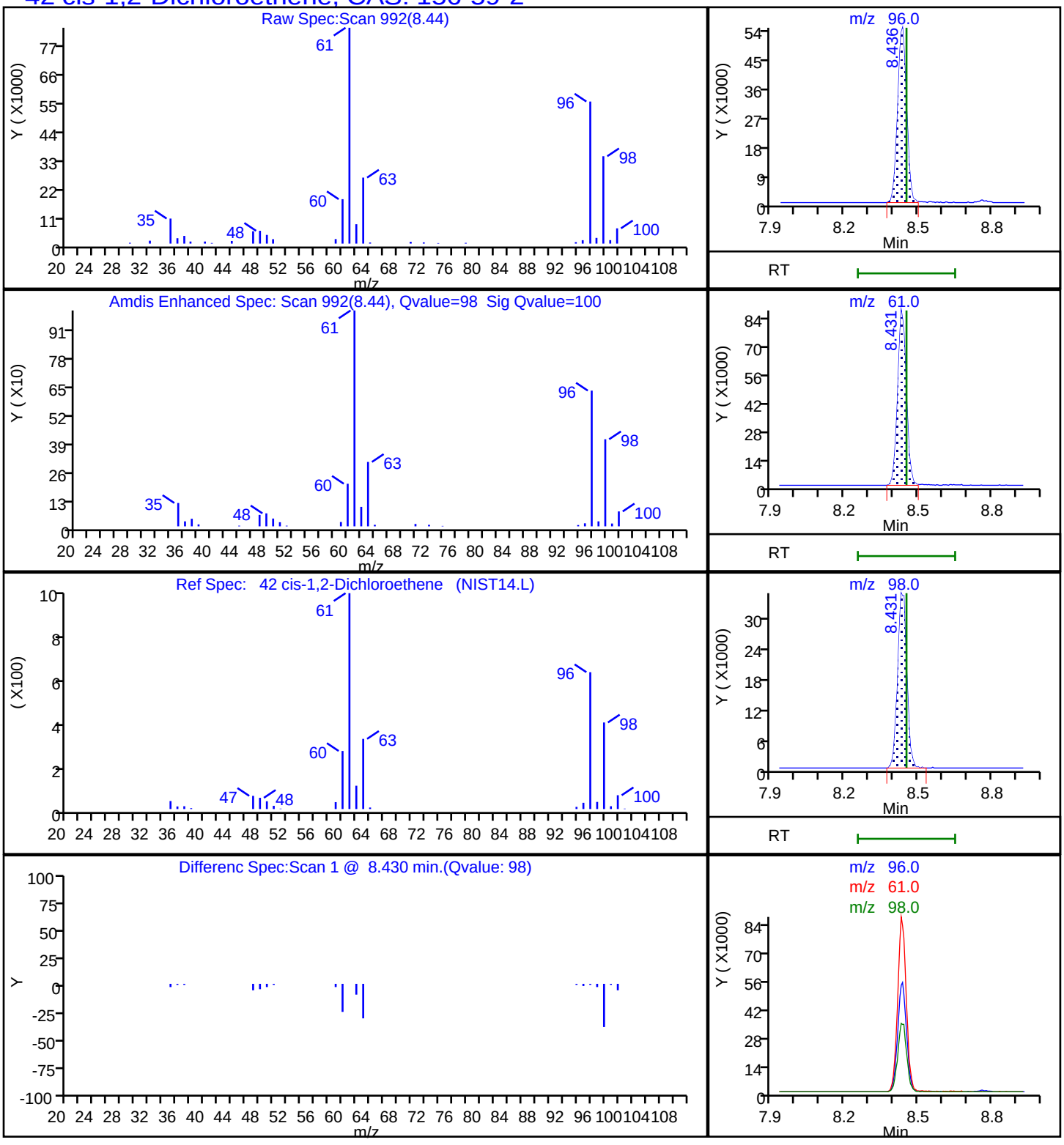
94 1,3-Dichlorobenzene, CAS: 541-73-1



Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RF30P103.D				
Injection Date:	30-Jun-2021 17:53:30	Instrument ID:	MR		
Lims ID:	140-23523-A-2	Lab Sample ID:	140-23523-2		
Client ID:	HSVE DEEP				
Operator ID:	HMT	ALS Bottle#:	3	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

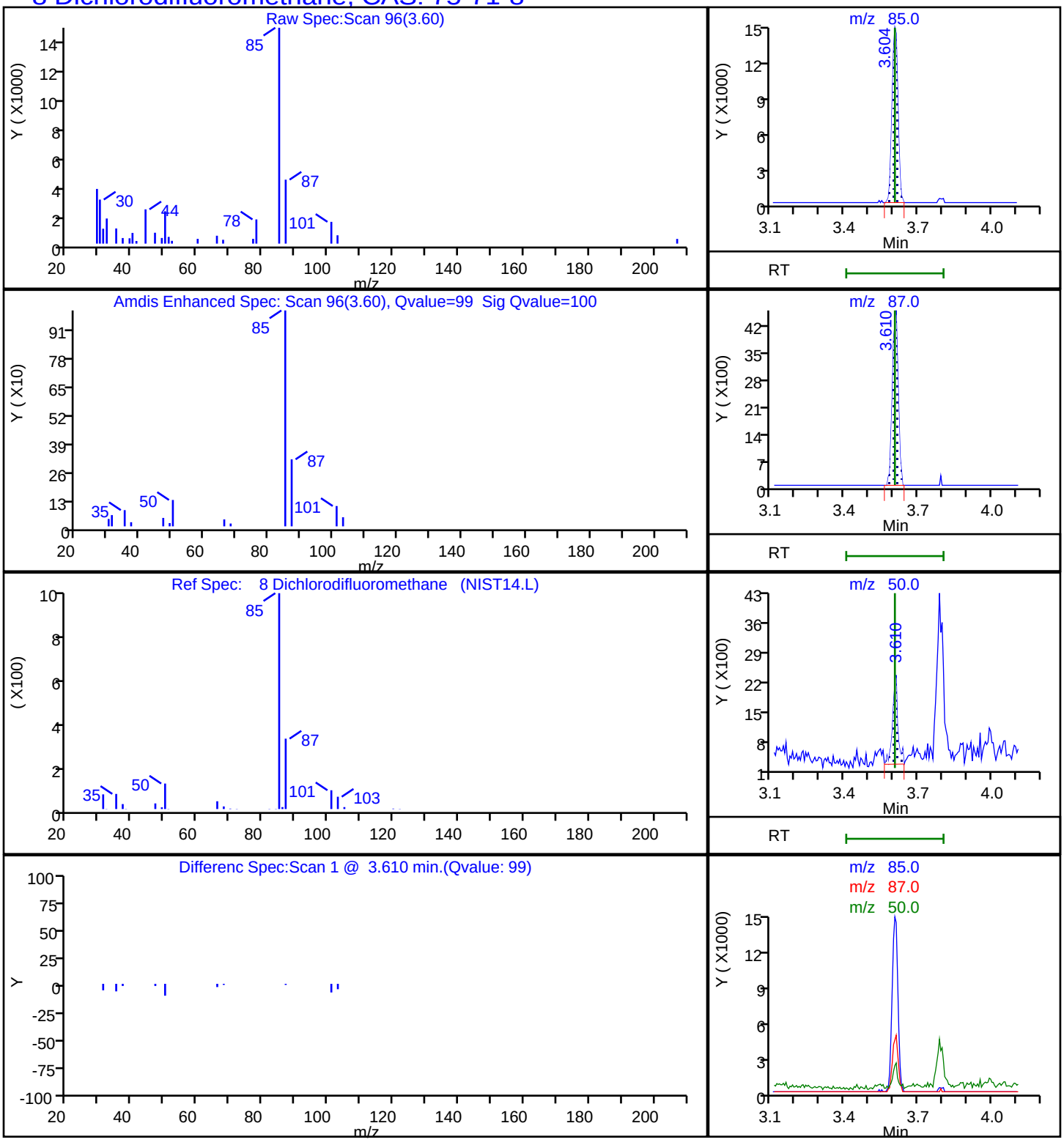
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RF30P103.D		
Injection Date:	30-Jun-2021 17:53:30	Instrument ID:	MR
Lims ID:	140-23523-A-2	Lab Sample ID:	140-23523-2
Client ID:	HSVE DEEP		
Operator ID:	HMT	ALS Bottle#:	3 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



Report Date: 01-Jul-2021 14:15:32 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RF30P103.D

Injection Date: 30-Jun-2021 17:53:30 Instrument ID: MR

Lims ID: 140-23523-A-2 Lab Sample ID: 140-23523-2

Client ID: HSVE DEEP

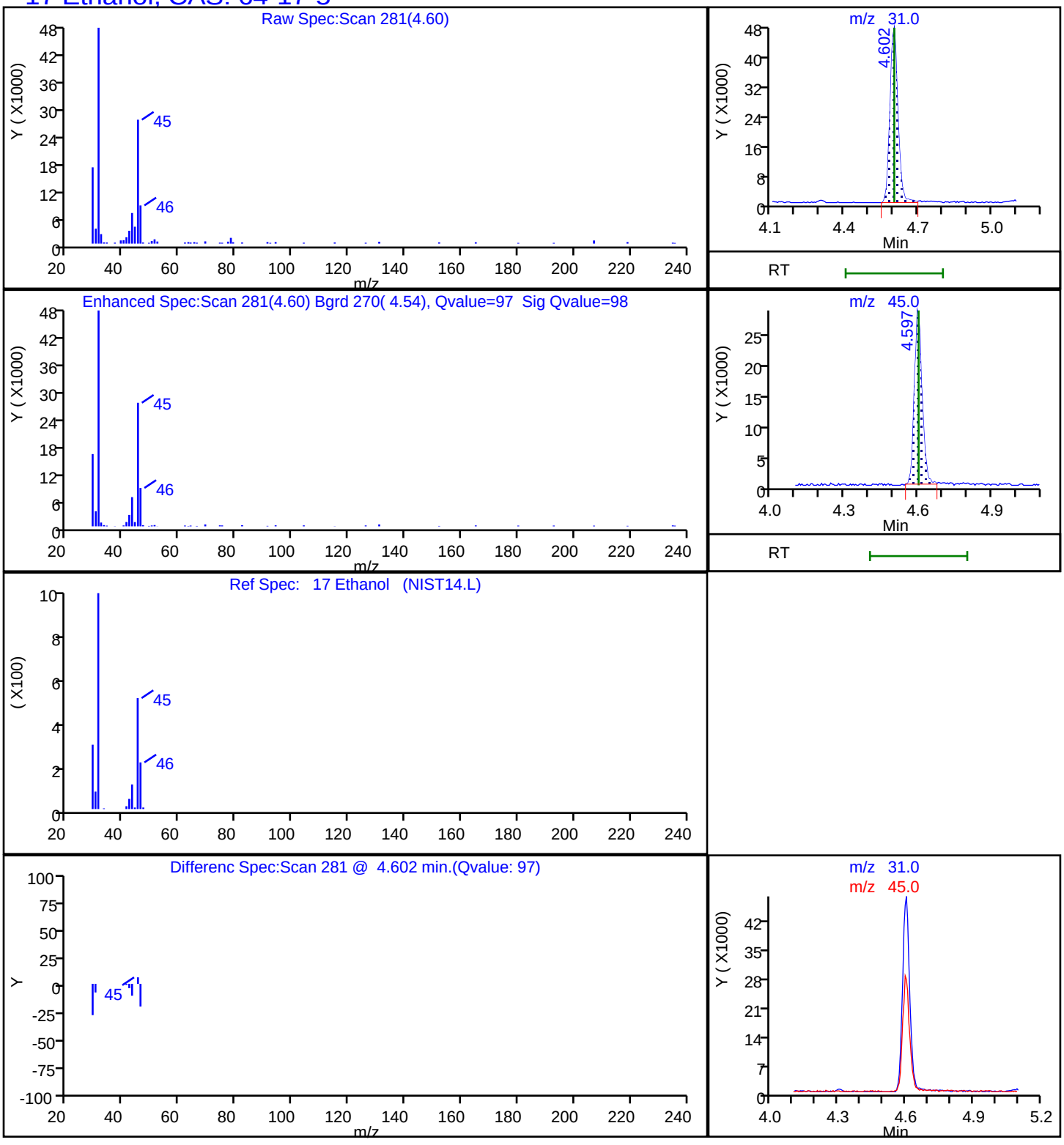
Operator ID: HMT ALS Bottle#: 3 Worklist Smp#: 13

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MR_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

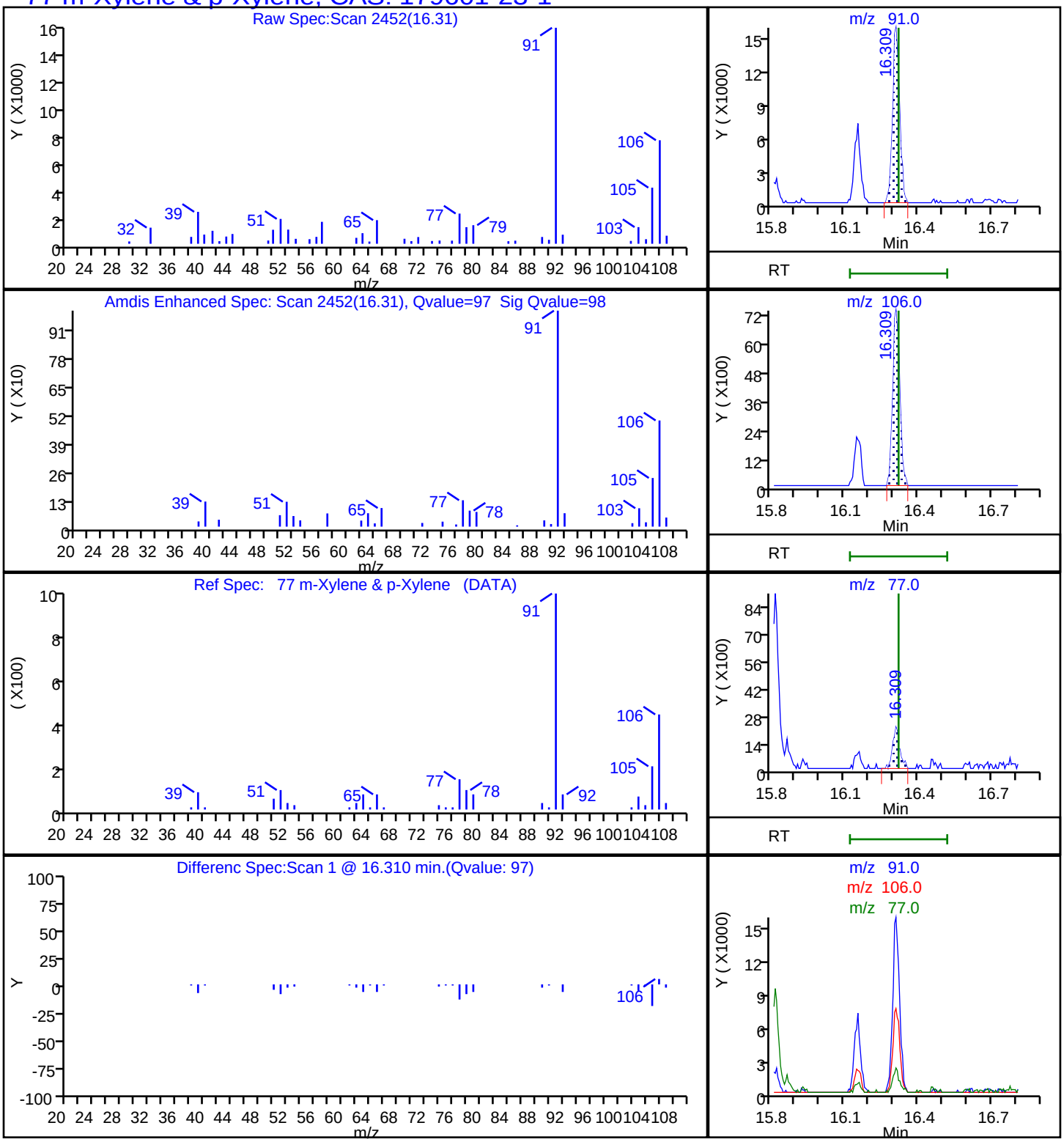
17 Ethanol, CAS: 64-17-5



Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RF30P103.D				
Injection Date:	30-Jun-2021 17:53:30	Instrument ID:	MR		
Lims ID:	140-23523-A-2	Lab Sample ID:	140-23523-2		
Client ID:	HSVE DEEP				
Operator ID:	HMT	ALS Bottle#:	3	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

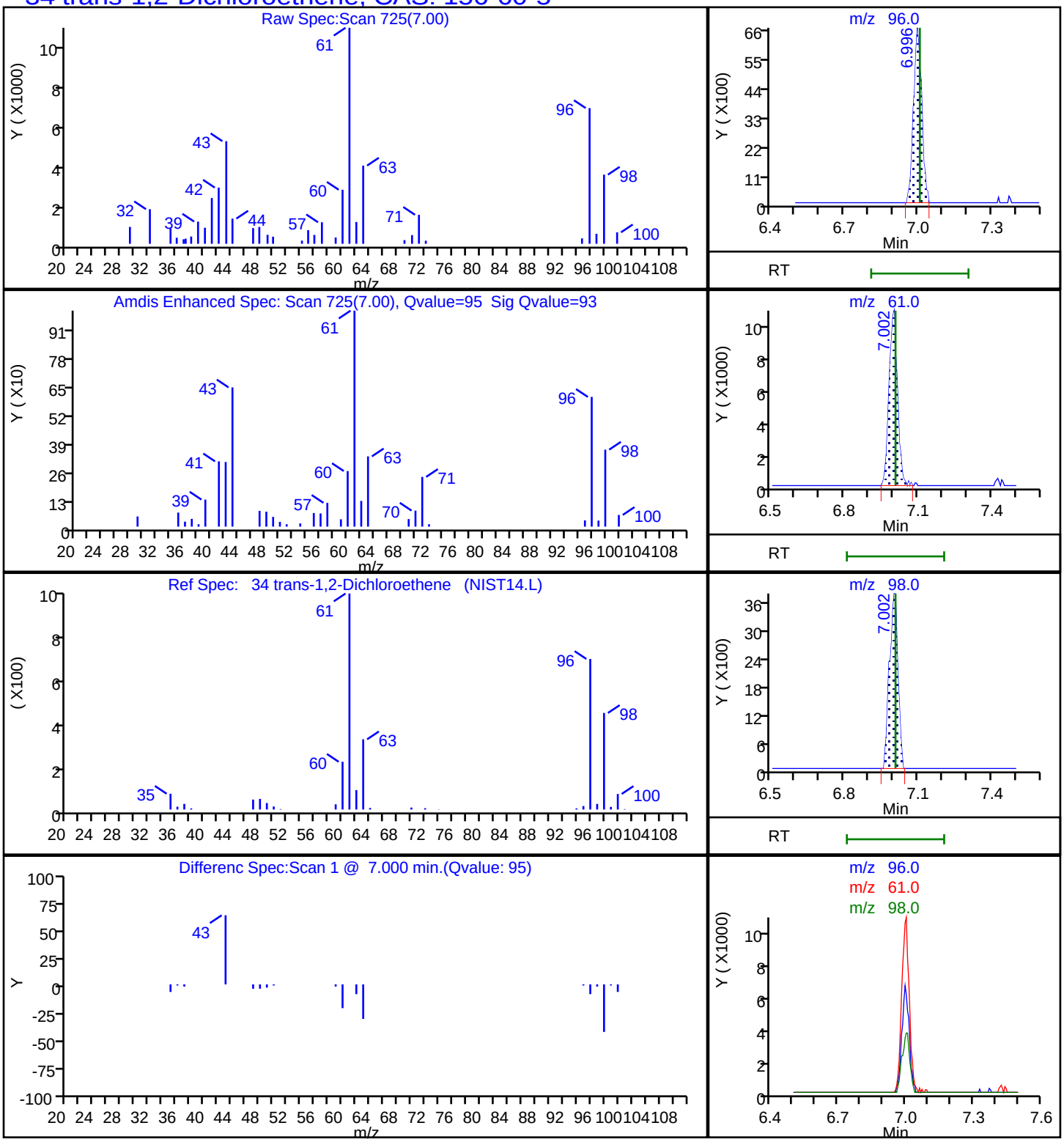
77 m-Xylene & p-Xylene, CAS: 179601-23-1



Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RF30P103.D		
Injection Date:	30-Jun-2021 17:53:30	Instrument ID:	MR
Lims ID:	140-23523-A-2	Lab Sample ID:	140-23523-2
Client ID:	HSVE DEEP		
Operator ID:	HMT	ALS Bottle#:	3 Worklist Smp#: 13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

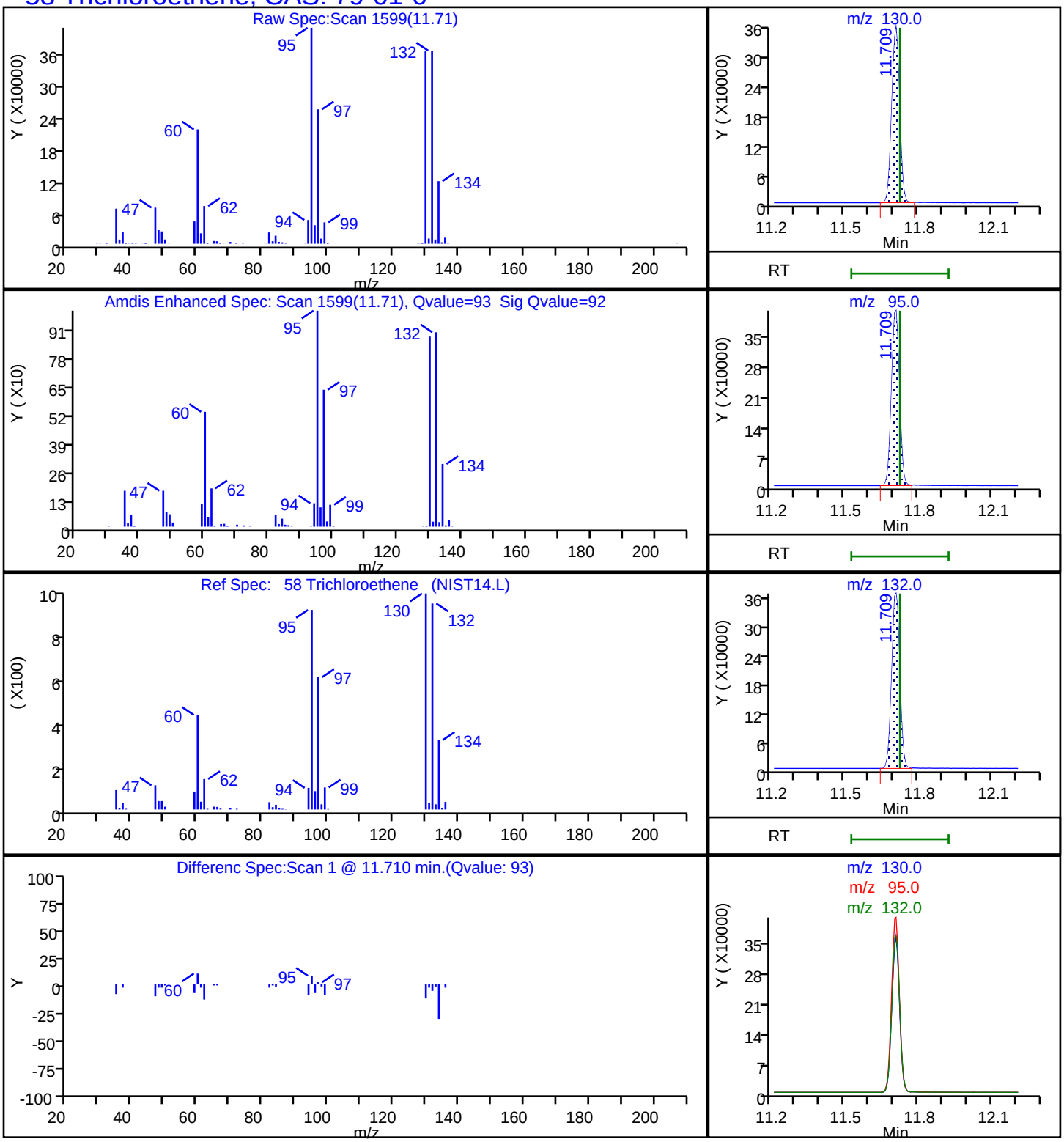


Report Date: 01-Jul-2021 14:15:33 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RF30P103.D				
Injection Date:	30-Jun-2021 17:53:30	Instrument ID:	MR		
Lims ID:	140-23523-A-2	Lab Sample ID:	140-23523-2		
Client ID:	HSVE DEEP				
Operator ID:	HMT	ALS Bottle#:	3	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

58 Trichloroethene, CAS: 79-01-6



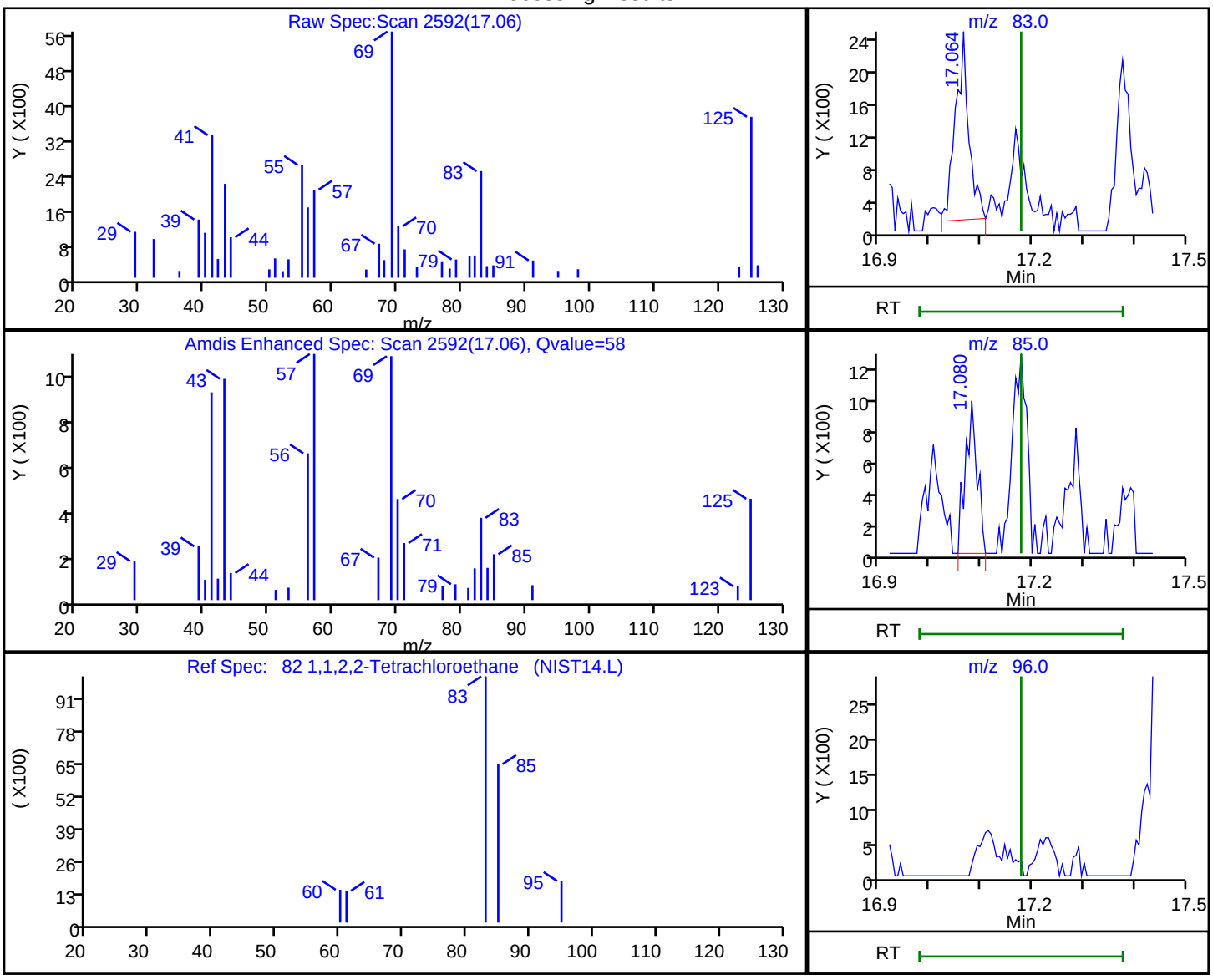
User Disabled Compound Report

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RF30P103.D				
Injection Date:	30-Jun-2021 17:53:30	Instrument ID:	MR		
Lims ID:	140-23523-A-2	Lab Sample ID:	140-23523-2		
Client ID:	HSVE DEEP				
Operator ID:	HMT	ALS Bottle#:	3	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

82 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
17.06	83.00	4171	0.016160
17.08	85.00	1555	
17.18	96.00	0	

Reviewer: khachitpongpanits, 01-Jul-2021 14:15:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

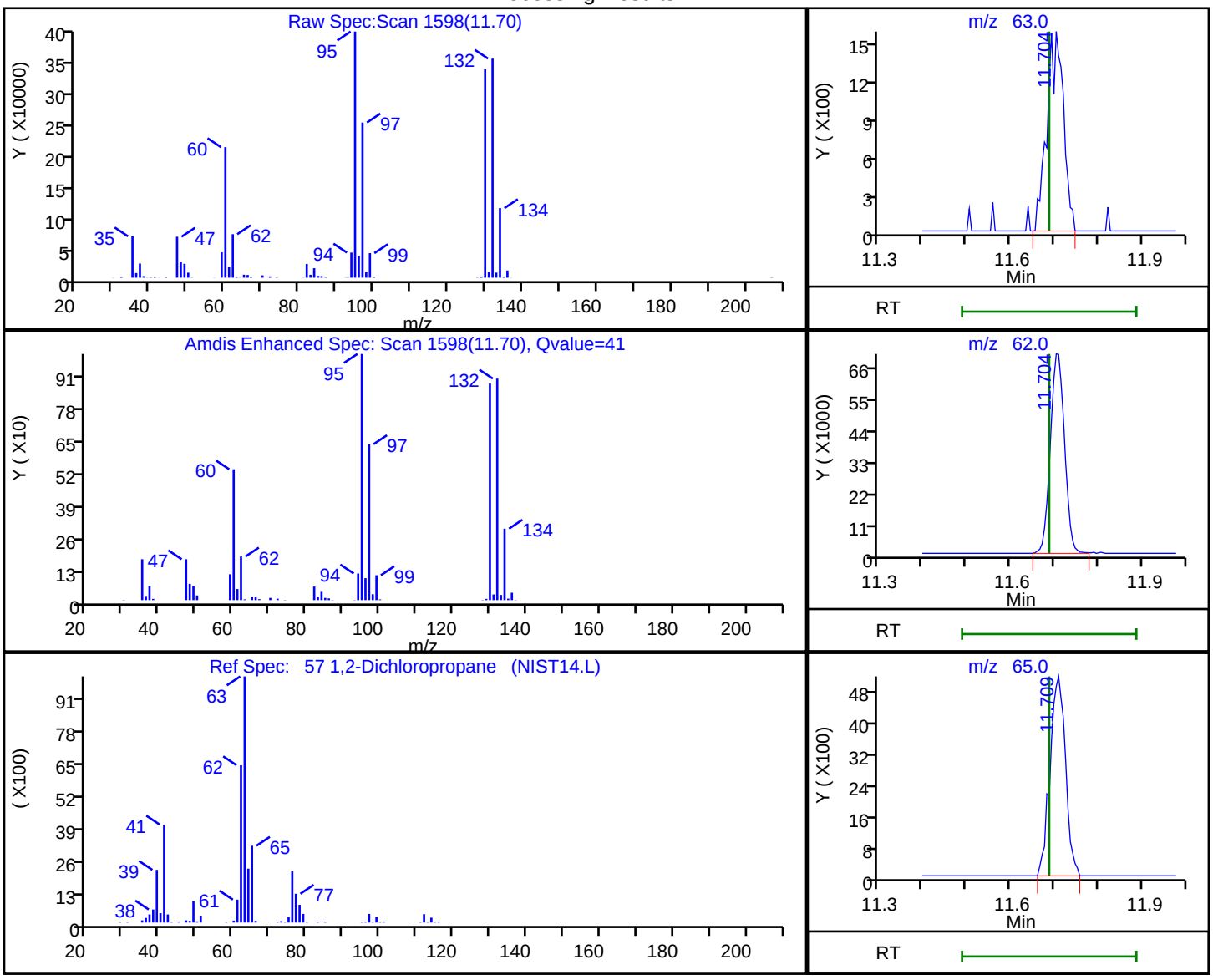
User Disabled Compound Report

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RF30P103.D				
Injection Date:	30-Jun-2021 17:53:30	Instrument ID:	MR		
Lims ID:	140-23523-A-2	Lab Sample ID:	140-23523-2		
Client ID:	HSVE DEEP				
Operator ID:	HMT	ALS Bottle#:	3	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

57 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
11.70	63.00	4067	0.032628
11.70	62.00	160189	
11.71	65.00	12561	

Reviewer: khachitpongpanits, 01-Jul-2021 14:14:56

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Knoxville

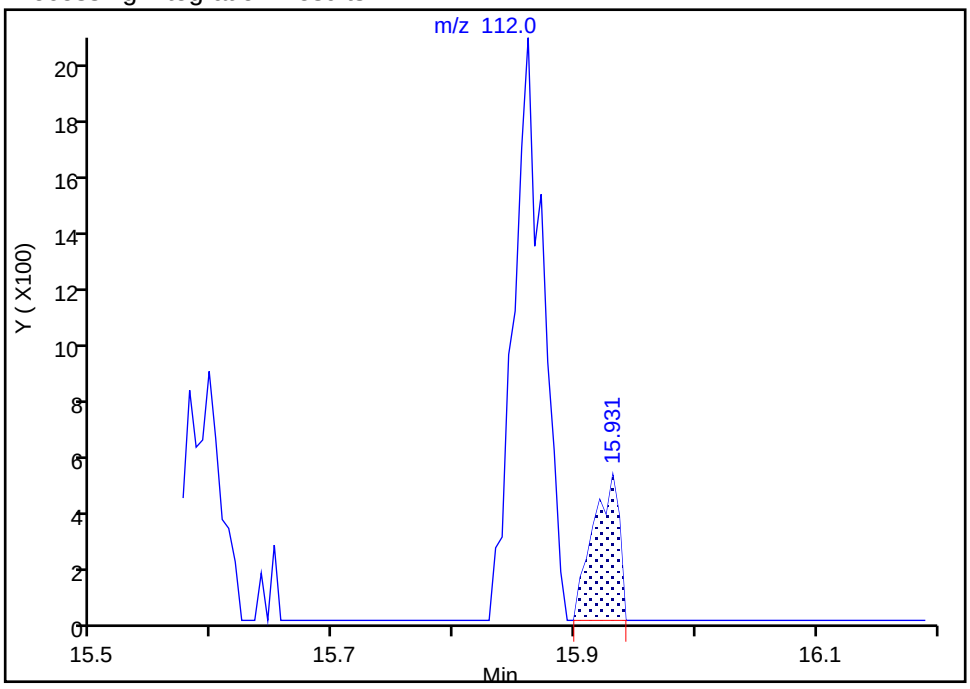
Data File:	\\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RF30P103.D				
Injection Date:	30-Jun-2021 17:53:30	Instrument ID:	MR		
Lims ID:	140-23523-A-2	Lab Sample ID:	140-23523-2		
Client ID:	HSVE DEEP				
Operator ID:	HMT	ALS Bottle#:	3	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

74 Chlorobenzene, CAS: 108-90-7

Signal: 1

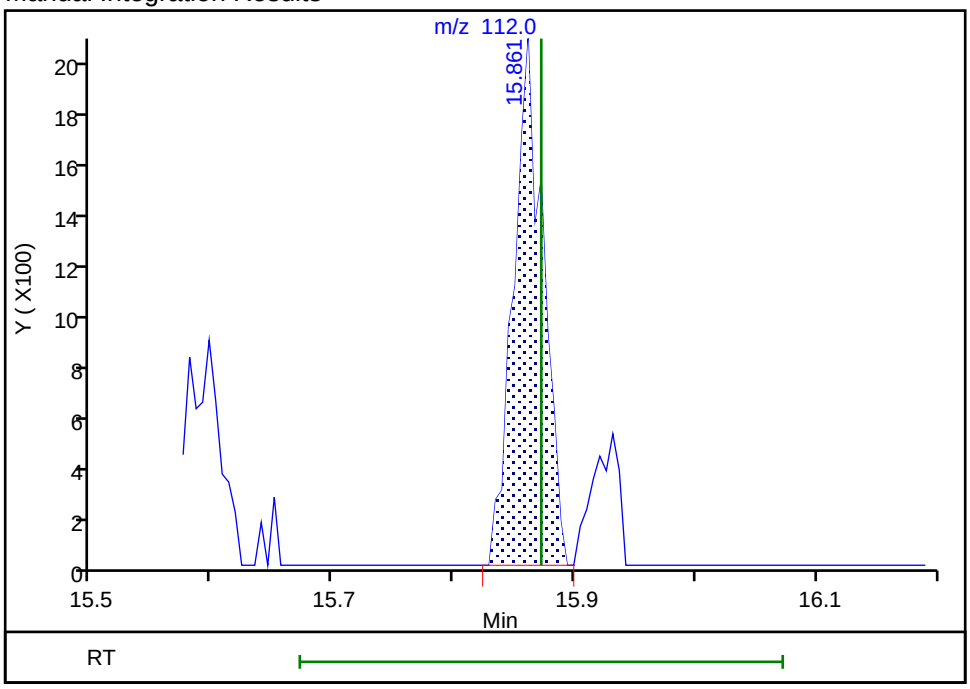
Processing Integration Results

RT: 15.93
Area: 786
Amount: 0.003080
Amount Units: ppb v/v



Manual Integration Results

RT: 15.86
Area: 3566
Amount: 0.013973
Amount Units: ppb v/v



Reviewer: khachitpongpanits, 01-Jul-2021 14:15:12

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: SVE - 1 Lab Sample ID: 140-23523-3

Matrix: Air Lab File ID: SF29P116.D

Analysis Method: TO 15 LL Date Collected: 06/16/2021 10:12

Sample wt/vol: 40(mL) Date Analyzed: 06/30/2021 03:29

Soil Aliquot Vol: Dilution Factor: 37.59

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51283 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	79		38	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		38	
79-00-5	1,1,2-Trichloroethane	133.41	ND		38	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		38	
75-34-3	1,1-Dichloroethane	98.96	ND		38	
75-35-4	1,1-Dichloroethene	96.94	ND		19	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		38	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		38	
106-93-4	1,2-Dibromoethane	187.87	ND		38	
95-50-1	1,2-Dichlorobenzene	147.00	ND		38	
107-06-2	1,2-Dichloroethane	98.96	ND		38	
78-87-5	1,2-Dichloropropane	112.99	ND		38	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		38	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		38	
541-73-1	1,3-Dichlorobenzene	147.00	ND		38	
106-46-7	1,4-Dichlorobenzene	147.00	ND		38	
123-91-1	1,4-Dioxane	88.11	ND		94	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		94	
78-93-3	2-Butanone	72.11	ND		150	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		94	
71-43-2	Benzene	78.11	ND		38	
100-44-7	Benzyl chloride	126.58	ND		75	
75-27-4	Bromodichloromethane	163.83	ND		38	
75-25-2	Bromoform	252.75	ND		38	
74-83-9	Bromomethane	94.94	ND		38	
56-23-5	Carbon tetrachloride	153.81	ND		15	
108-90-7	Chlorobenzene	112.56	ND		38	
75-00-3	Chloroethane	64.52	ND		38	
67-66-3	Chloroform	119.38	ND		38	
74-87-3	Chloromethane	50.49	ND		94	
156-59-2	cis-1,2-Dichloroethene	96.94	180		19	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		38	
110-82-7	Cyclohexane	84.16	ND		94	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: SVE - 1 Lab Sample ID: 140-23523-3

Matrix: Air Lab File ID: SF29P116.D

Analysis Method: TO 15 LL Date Collected: 06/16/2021 10:12

Sample wt/vol: 40(mL) Date Analyzed: 06/30/2021 03:29

Soil Aliquot Vol: Dilution Factor: 37.59

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51283 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.28	ND		38	
75-71-8	Dichlorodifluoromethane	120.91	ND		38	
64-17-5	Ethanol	46.07	ND		940	
100-41-4	Ethylbenzene	106.17	ND		38	
87-68-3	Hexachlorobutadiene	260.76	ND		38	
110-54-3	Hexane	86.17	ND		94	
1634-04-4	Methyl tert-butyl ether	88.15	ND		75	
75-09-2	Methylene Chloride	84.93	ND		190	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		38	
91-20-3	Naphthalene	128.17	ND		94	
95-47-6	o-Xylene	106.17	ND		38	
100-42-5	Styrene	104.15	ND		38	
75-65-0	t-Butyl alcohol	74.12	ND		150	
127-18-4	Tetrachloroethene	165.83	ND		38	
108-88-3	Toluene	92.14	ND		56	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		38	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		38	
79-01-6	Trichloroethene	131.39	3300		17	
75-69-4	Trichlorofluoromethane	137.37	ND		38	
75-01-4	Vinyl chloride	62.50	ND		19	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: SVE - 1 Lab Sample ID: 140-23523-3

Matrix: Air Lab File ID: SF29P116.D

Analysis Method: TO 15 LL Date Collected: 06/16/2021 10:12

Sample wt/vol: 40(mL) Date Analyzed: 06/30/2021 03:29

Soil Aliquot Vol: Dilution Factor: 37.59

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51283 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	430		210	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		260	
79-00-5	1,1,2-Trichloroethane	133.41	ND		210	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		290	
75-34-3	1,1-Dichloroethane	98.96	ND		150	
75-35-4	1,1-Dichloroethene	96.94	ND		75	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		280	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		180	
106-93-4	1,2-Dibromoethane	187.87	ND		290	
95-50-1	1,2-Dichlorobenzene	147.00	ND		230	
107-06-2	1,2-Dichloroethane	98.96	ND		150	
78-87-5	1,2-Dichloropropane	112.99	ND		170	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		260	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		180	
541-73-1	1,3-Dichlorobenzene	147.00	ND		230	
106-46-7	1,4-Dichlorobenzene	147.00	ND		230	
123-91-1	1,4-Dioxane	88.11	ND		340	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		440	
78-93-3	2-Butanone	72.11	ND		440	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		380	
71-43-2	Benzene	78.11	ND		120	
100-44-7	Benzyl chloride	126.58	ND		390	
75-27-4	Bromodichloromethane	163.83	ND		250	
75-25-2	Bromoform	252.75	ND		390	
74-83-9	Bromomethane	94.94	ND		150	
56-23-5	Carbon tetrachloride	153.81	ND		95	
108-90-7	Chlorobenzene	112.56	ND		170	
75-00-3	Chloroethane	64.52	ND		99	
67-66-3	Chloroform	119.38	ND		180	
74-87-3	Chloromethane	50.49	ND		190	
156-59-2	cis-1,2-Dichloroethene	96.94	720		75	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		170	
110-82-7	Cyclohexane	84.16	ND		320	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: SVE - 1 Lab Sample ID: 140-23523-3

Matrix: Air Lab File ID: SF29P116.D

Analysis Method: TO 15 LL Date Collected: 06/16/2021 10:12

Sample wt/vol: 40(mL) Date Analyzed: 06/30/2021 03:29

Soil Aliquot Vol: Dilution Factor: 37.59

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51283 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.28	ND		320	
75-71-8	Dichlorodifluoromethane	120.91	ND		190	
64-17-5	Ethanol	46.07	ND		1800	
100-41-4	Ethylbenzene	106.17	ND		160	
87-68-3	Hexachlorobutadiene	260.76	ND		400	
110-54-3	Hexane	86.17	ND		330	
1634-04-4	Methyl tert-butyl ether	88.15	ND		270	
75-09-2	Methylene Chloride	84.93	ND		650	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		160	
91-20-3	Naphthalene	128.17	ND		490	
95-47-6	o-Xylene	106.17	ND		160	
100-42-5	Styrene	104.15	ND		160	
75-65-0	t-Butyl alcohol	74.12	ND		460	
127-18-4	Tetrachloroethene	165.83	ND		250	
108-88-3	Toluene	92.14	ND		210	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		150	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		170	
79-01-6	Trichloroethene	131.39	18000		91	
75-69-4	Trichlorofluoromethane	137.37	ND		210	
75-01-4	Vinyl chloride	62.50	ND		48	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MS\20210628-19746.b\SF29P116.D
Lims ID: 140-23523-A-3
Client ID: SVE - 1
Sample Type: Client
Inject. Date: 30-Jun-2021 03:29:30 ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 500.000 mL Dil. Factor: 37.5900
Sample Info: 140-0019746-022
Misc. Info.: 140-23523-a-3@37.59
Operator ID: HMT Instrument ID: MS

Method: \\chromfs\Knoxville\ChromData\MS\20210628-19746.b\MS_TO15A.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jun-2021 16:38:02 Calib Date: 09-Jun-2021 23:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1612

First Level Reviewer: khachitpongpanits Date: 30-Jun-2021 16:38:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.212	9.217	-0.005	97	192512	4.80	
* 2 1,4-Difluorobenzene	114	11.391	11.396	-0.006	95	957812	4.80	
* 3 Chlorobenzene-d5 (IS)	117	16.065	16.065	0.000	86	797770	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.706	17.712	-0.006	95	532020	4.32	
34 trans-1,2-Dichloroethene	96	7.420	7.426	-0.006	92	3055	0.0564	
37 1,1-Dichloroethane	63	7.867	7.867	0.000	97	4523	0.0383	
42 cis-1,2-Dichloroethene	96	8.873	8.884	-0.011	98	21868	0.3842	
44 Chloroform	83	9.217	9.228	-0.011	32	1274	0.0102	
47 1,1,1-Trichloroethane	97	10.272	10.277	-0.005	96	19039	0.1680	
51 Benzene	78	10.869	10.874	-0.005	15	1778	0.009785	
55 Isooctane	57	11.611	11.606	0.005	97	9017	0.0286	
58 Trichloroethene	130	12.095	12.106	-0.011	96	563167	6.98	
73 Tetrachloroethene	129	15.242	15.248	-0.006	95	5294	0.0642	
75 Chlorobenzene	112	16.108	16.114	-0.006	91	1480	0.008446	

QC Flag Legend

Processing Flags

Reagents:

40MXISSUR_00001 Amount Added: 40.00 Units: mL Run Reagent

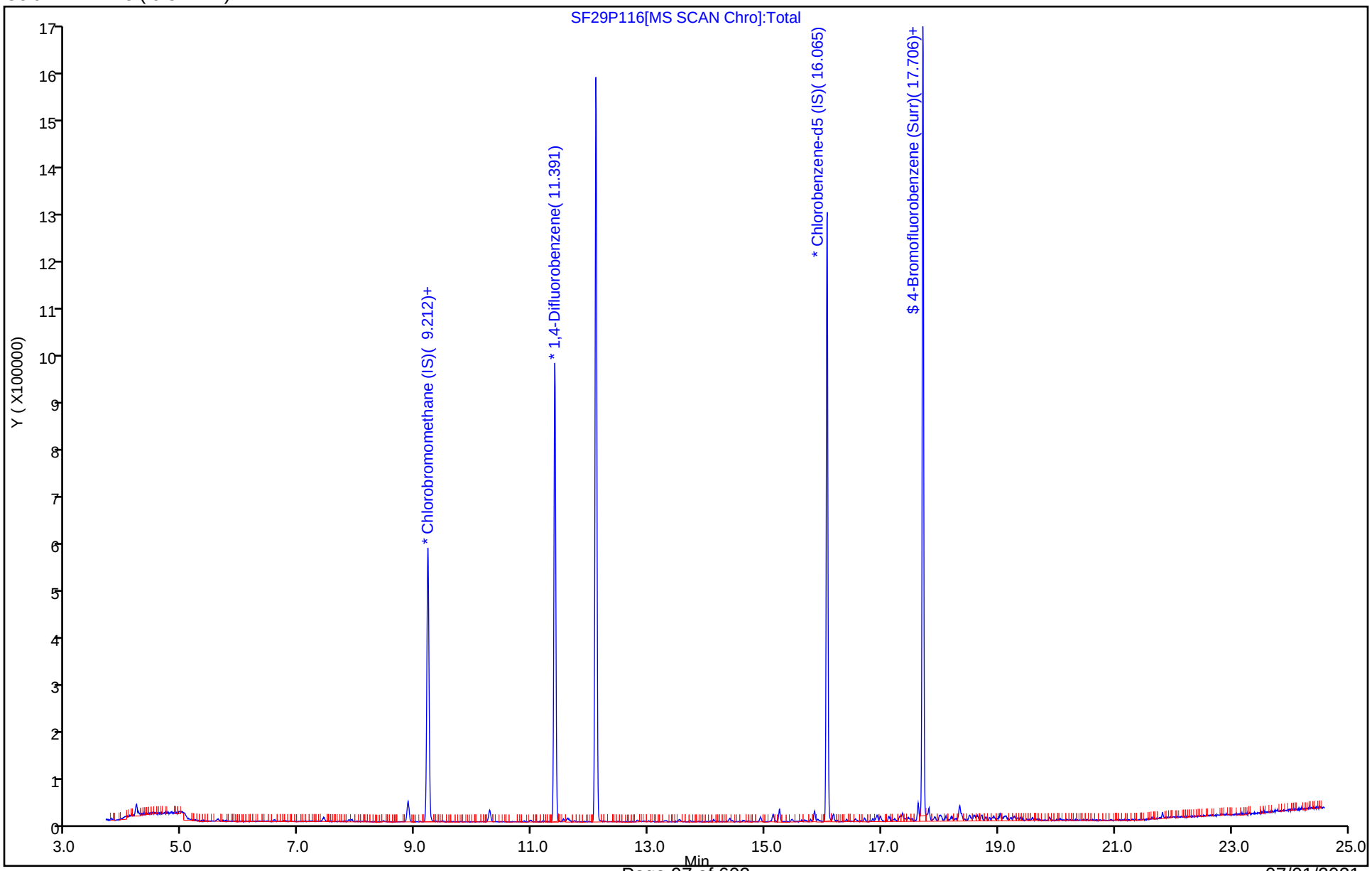
Report Date: 30-Jun-2021 16:38:03 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MS\20210628-19746.b\SF29P116.D

Injection Date:	30-Jun-2021 03:29:30	Instrument ID:	MS	Operator ID:	HMT
Lims ID:	140-23523-A-3	Lab Sample ID:	140-23523-3	Worklist Smp#:	22
Client ID:	SVE - 1				
Purge Vol:	500.000 mL	Dil. Factor:	37.5900	ALS Bottle#:	16
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Eurofins TestAmerica, Knoxville
Recovery Report

Data File:	\\chromfs\Knoxville\ChromData\MS\20210628-19746.b\SF29P116.D				
Lims ID:	140-23523-A-3				
Client ID:	SVE - 1				
Sample Type:	Client				
Inject. Date:	30-Jun-2021 03:29:30	ALS Bottle#:	16	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	37.5900		
Sample Info:	140-0019746-022				
Misc. Info.:	140-23523-a-3@37.59				
Operator ID:	HMT	Instrument ID:	MS		
Method:	\\chromfs\Knoxville\ChromData\MS\20210628-19746.b\MS_TO15A.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	30-Jun-2021 16:38:02	Calib Date:	09-Jun-2021 23:44:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	CTX1612				

First Level Reviewer: khachitpongpanits Date: 30-Jun-2021 16:38:02

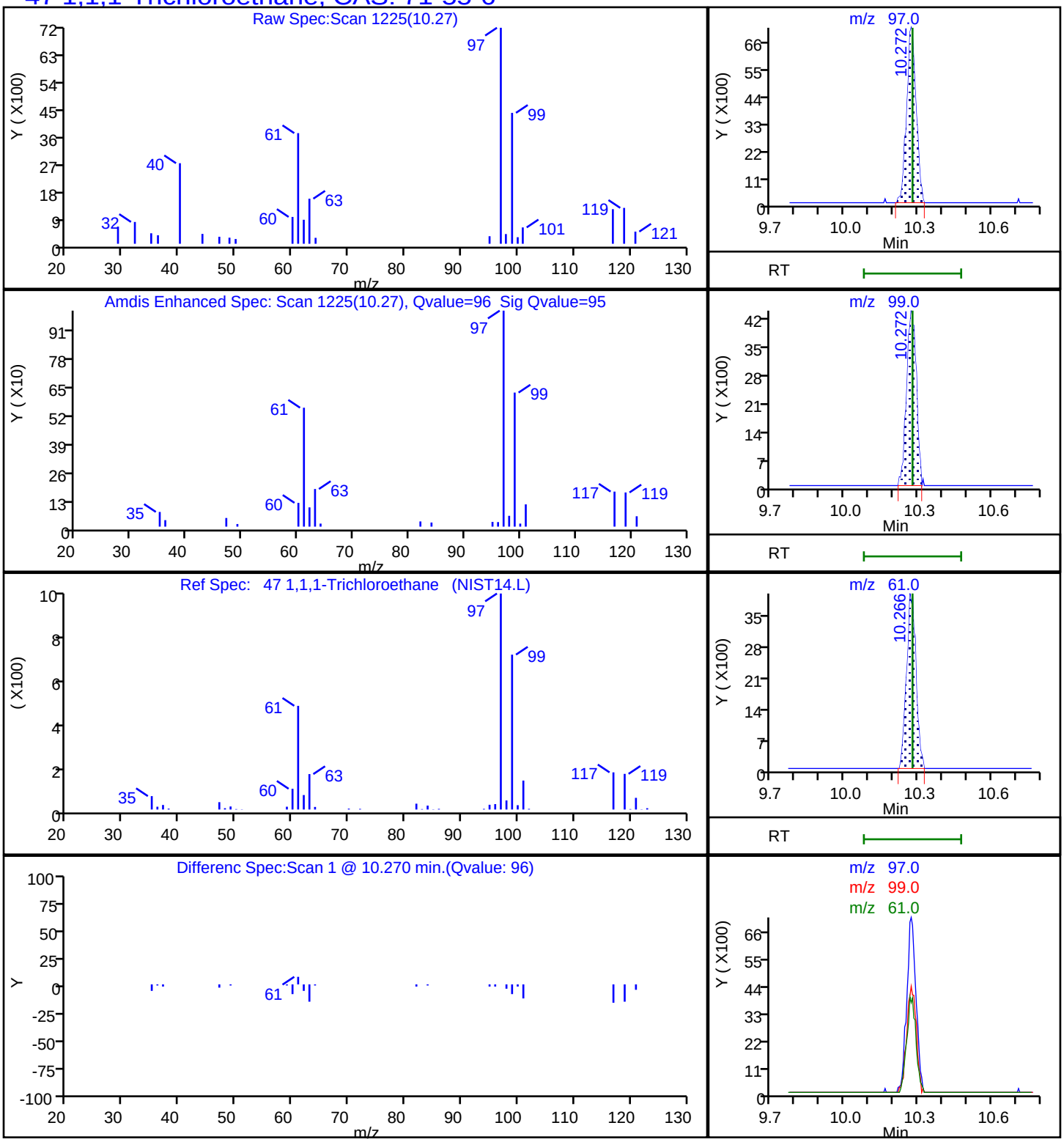
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.64	4.32	93.12

Report Date: 30-Jun-2021 16:38:03 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MS\20210628-19746.b\SF29P116.D				
Injection Date:	30-Jun-2021 03:29:30	Instrument ID:	MS		
Lims ID:	140-23523-A-3	Lab Sample ID:	140-23523-3		
Client ID:	SVE - 1				
Operator ID:	HMT	ALS Bottle#:	16	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	37.5900		
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

47 1,1,1-Trichloroethane, CAS: 71-55-6

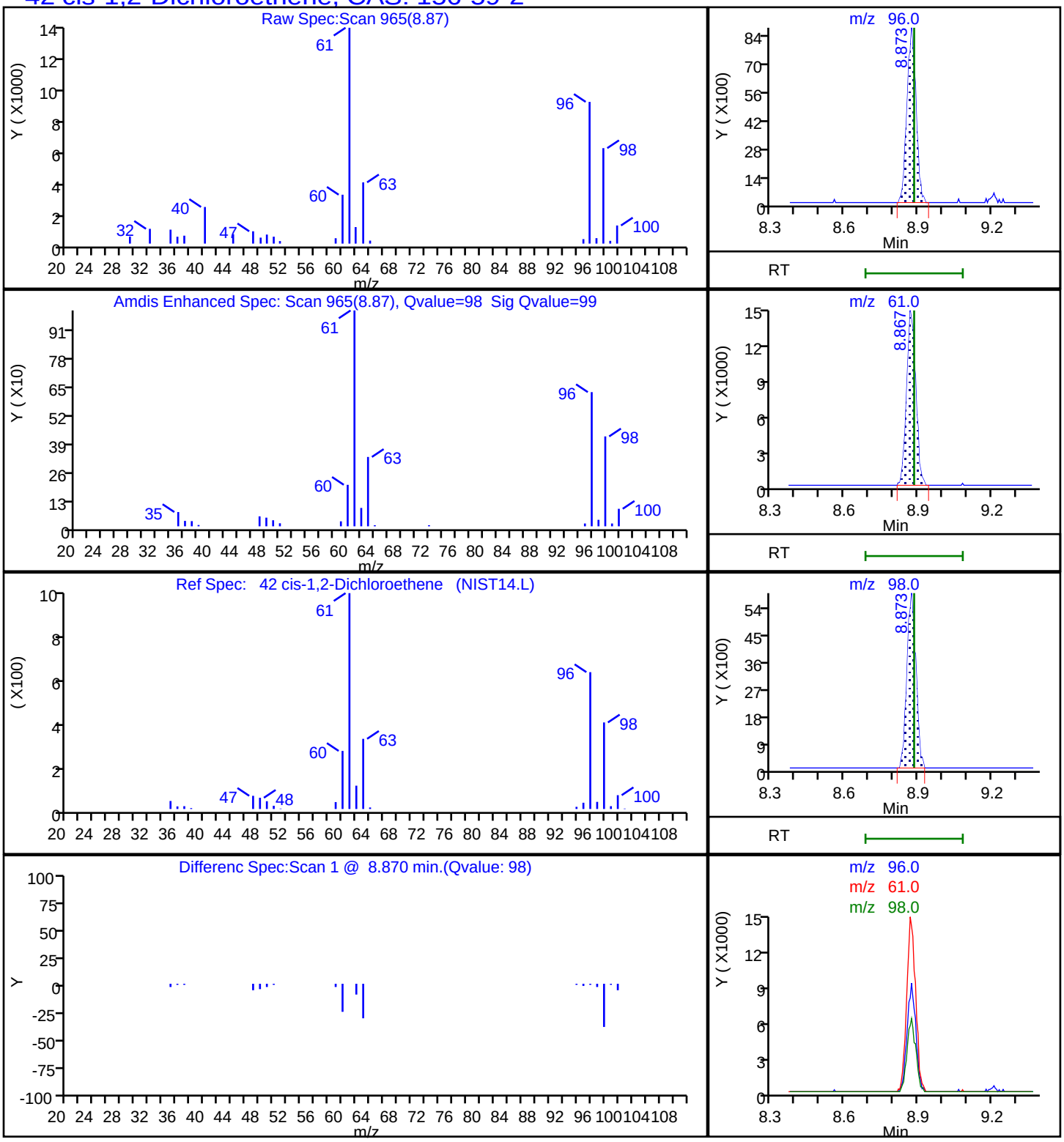


Report Date: 30-Jun-2021 16:38:03 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MS\20210628-19746.b\SF29P116.D				
Injection Date:	30-Jun-2021 03:29:30	Instrument ID:	MS		
Lims ID:	140-23523-A-3	Lab Sample ID:	140-23523-3		
Client ID:	SVE - 1				
Operator ID:	HMT	ALS Bottle#:	16	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	37.5900		
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

42 cis-1,2-Dichloroethene, CAS: 156-59-2

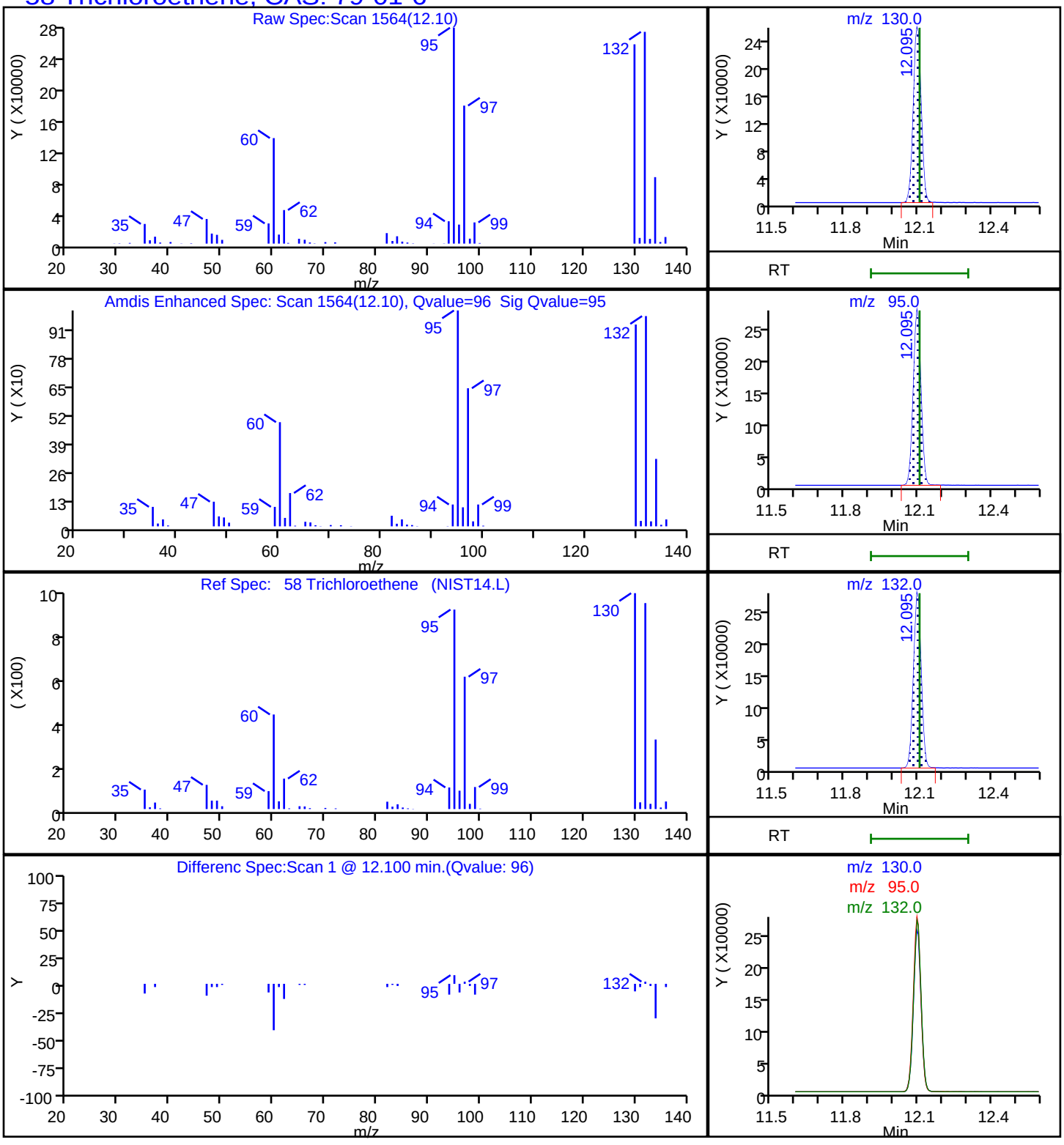


Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MS\20210628-19746.b\SF29P116.D

Injection Date:	30-Jun-2021 03:29:30	Instrument ID:	MS
Lims ID:	140-23523-A-3	Lab Sample ID:	140-23523-3
Client ID:	SVE - 1		
Operator ID:	HMT	ALS Bottle#:	16 Worklist Smp#: 22
Purge Vol:	500.000 mL	Dil. Factor:	37.5900
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

58 Trichloroethene, CAS: 79-01-6



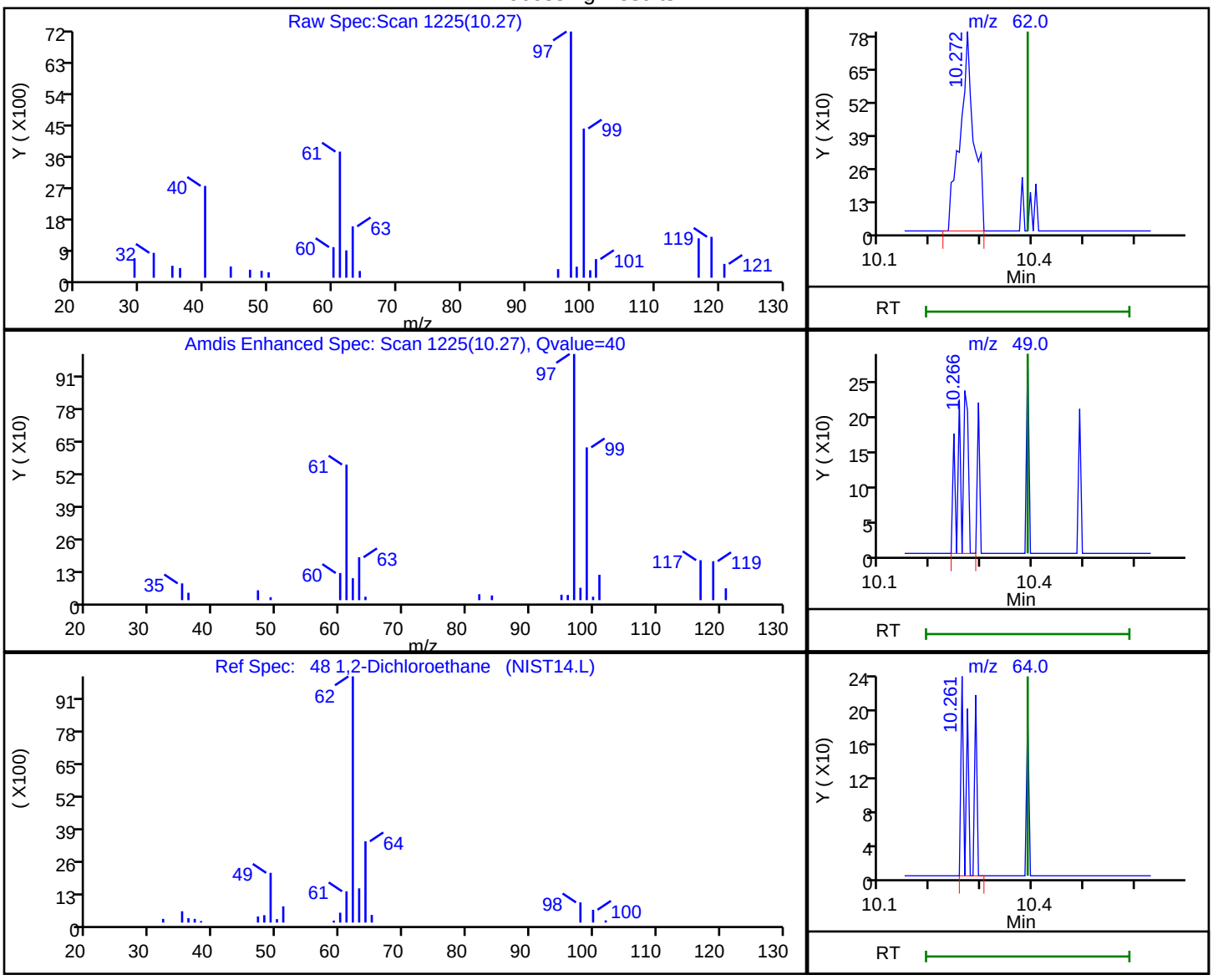
User Disabled Compound Report

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MS\20210628-19746.b\SF29P116.D				
Injection Date:	30-Jun-2021 03:29:30	Instrument ID:	MS		
Lims ID:	140-23523-A-3	Lab Sample ID:	140-23523-3		
Client ID:	SVE - 1				
Operator ID:	HMT	ALS Bottle#:	16	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	37.5900		
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
10.27	62.00	1505	0.018904
10.27	49.00	265	
10.26	64.00	208	

Reviewer: khachitpongpanits, 30-Jun-2021 16:37:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

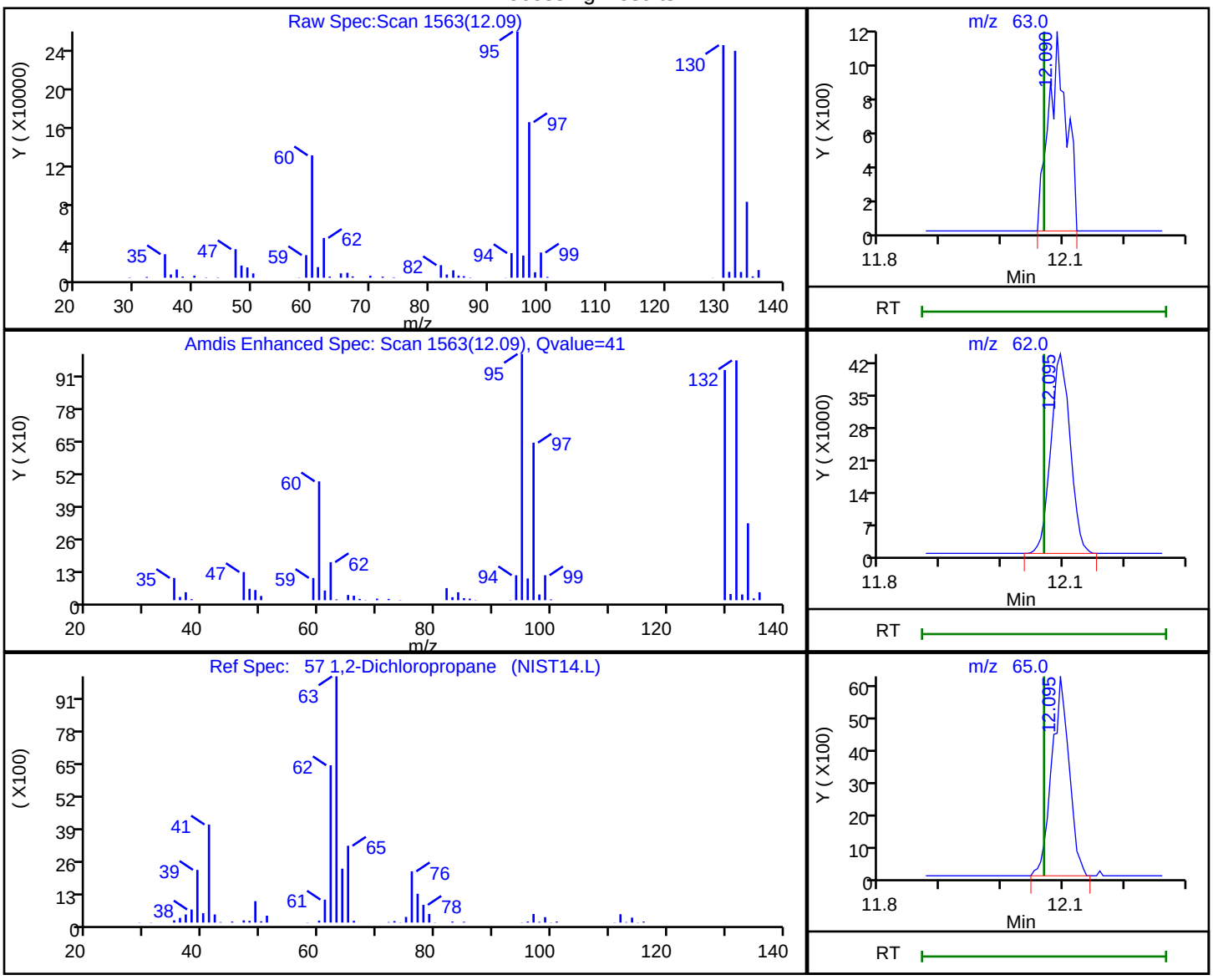
User Disabled Compound Report

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MS\20210628-19746.b\SF29P116.D				
Injection Date:	30-Jun-2021 03:29:30	Instrument ID:	MS		
Lims ID:	140-23523-A-3	Lab Sample ID:	140-23523-3		
Client ID:	SVE - 1				
Operator ID:	HMT	ALS Bottle#:	16	Worklist Smp#:	22
Purge Vol:	500.000 mL	Dil. Factor:	37.5900		
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

57 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
12.09	63.00	2422	0.029617
12.10	62.00	94596	
12.10	65.00	12224	

Reviewer: khachitpongpanits, 30-Jun-2021 16:37:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 51007

SDG No.:

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2021 09:57 Calibration End Date: 06/19/2021 18:49 Calibration ID: 3105

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-51007/10	RF19IC01.D
Level 2	IC 140-51007/11	RF19IC02.D
Level 3	IC 140-51007/12	RF19IC03.D
Level 4	IC 140-51007/13	RF19IC04.D
Level 5	IC 140-51007/14	RF19IC05.D
Level 6	IC 140-51007/15	RF19IC06.D
Level 7	ICIS 140-51007/16	RF19IC07.D
Level 8	IC 140-51007/8	RF19IC08.D
Level 9	IC 140-51007/6	RF19IC09.D
Level 10	IC 140-51007/4	RF19IC10.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Chlorodifluoromethane	+++++ 2.2176	2.4673 2.2048	2.4067 2.1940	2.3665 +++++	2.2444 +++++	Ave		2.3002				4.8		30.0			
Propene	+++++ 1.2080	+++++ 1.2094	1.4315 1.2017	1.2828 +++++	1.2692 +++++	Ave		1.2671				6.9		30.0			
Dichlorodifluoromethane	3.5432 3.4634	3.6424 3.4912	3.4942 3.4147	3.5385 +++++	3.4573 +++++	Ave		3.5056				2.0		30.0			
Chloromethane	+++++ 0.3153	+++++ 0.3053	0.3708 0.3031	0.4342 +++++	0.4043 +++++	Ave		0.3555				15.8		30.0			
1,2-Dichlorotetrafluoroethane	2.2813 2.0862	2.2174 2.0346	2.1800 2.0102	2.3288 2.1192	2.3415 1.9685	Ave		2.1568				6.2		30.0			
Vinyl chloride	+++++ 1.0079	1.1036 0.9950	1.1091 1.0094	1.1657 1.0139	1.1228 0.9830	Ave		1.0567				6.4		30.0			
Butane	1.5832 1.6513	1.8459 1.6392	1.8092 1.6240	1.7769 1.6040	1.7958 1.5714	Ave		1.6901				6.2		30.0			
1,3-Butadiene	+++++ 0.8361	+++++ 0.8265	0.9290 0.8253	0.8812 0.8189	0.8798 0.8022	Ave		0.8499				5.0		30.0			
Bromomethane	+++++ 0.9086	+++++ 0.9201	0.9764 0.9160	1.1065 0.9271	1.0054 0.9324	Ave		0.9616				7.0		30.0			
Chloroethane	+++++ 0.4059	+++++ 0.3983	0.4996 0.4039	0.4604 0.4139	0.4550 0.4158	Ave		0.4316				8.3		30.0			
Ethanol	+++++ 0.5157	+++++ 0.5245	0.5588 0.5104	0.5800 0.5055	0.5299 0.4916	Ave		0.5270				5.5		30.0			
Vinyl bromide	+++++ 1.0047	1.1445 1.0079	1.1528 1.0654	1.0968 1.0930	1.0984 1.0954	Ave		1.0843				4.8		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 51007

SDG No.:

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2021 09:57 Calibration End Date: 06/19/2021 18:49 Calibration ID: 3105

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
2-Methylbutane	+++++ 1.5957	1.8029 1.5636	1.9496 1.6839	1.8590 1.6882	1.7459 1.6205	Ave		1.7232				7.4		30.0			
Trichlorofluoromethane	3.6026 3.2911	3.4331 3.2615	3.3549 3.4211	3.3617 3.4116	3.3827 3.2497	Ave		3.3770				3.0		30.0			
Acrolein	+++++ 0.3920	+++++ 0.4008	+++++ 0.4274	0.4664 0.4412	0.4783 0.4369	Ave		0.4347				7.3		30.0			
Acetonitrile	+++++ 0.5867	+++++ 0.5767	0.6316 0.6230	0.6348 0.6335	0.6585 0.6152	Ave		0.6200				4.3		30.0			
Acetone	+++++ 0.7585	+++++ 0.6446	+++++ 0.6465	+++++ 0.6311	1.3763 0.5964	Lin1	0.7973	0.5790							0.9970		0.9900
Isopropyl alcohol	+++++ 1.7990	+++++ 1.9524	2.0539 2.0268	2.0279 1.9797	1.9917 1.8252	Ave		1.9571				4.9		30.0			
Pentane	+++++ 0.1688	+++++ 0.1730	0.1845 0.1773	0.1589 0.1699	0.1859 0.1588	Ave		0.1721				6.0		30.0			
Ethyl ether	+++++ 1.4863	1.6439 1.4923	1.5444 1.6580	1.5467 1.6638	1.5382 1.6154	Ave		1.5765				4.4		30.0			
1,1-Dichloroethene	+++++ 1.2234	1.3577 1.2324	1.3115 1.2668	1.2933 1.2656	1.2612 1.2131	Ave		1.2694				3.6		30.0			
t-Butyl alcohol	+++++ 2.1651	+++++ 2.3263	2.4211 2.5262	2.2693 2.4765	2.3237 2.3474	Ave		2.3570				4.9		30.0			
Acrylonitrile	+++++ 0.9503	+++++ 0.9817	1.0758 1.0473	1.0166 1.0432	0.9736 1.0131	Ave		1.0127				4.2		30.0			
1,1,2-Trichlorotrifluoroethane	2.8228 2.7541	2.8391 2.7113	2.9041 2.7582	2.8311 2.7196	2.8587 2.5671	Ave		2.7766				3.5		30.0			
Methylene Chloride	+++++ 1.1318	+++++ 1.1144	+++++ 1.1348	+++++ 1.1089	1.1846 1.0580	Ave		1.1221				3.7		30.0			
3-Chloropropene	+++++ 1.0725	+++++ 1.1507	1.3189 1.2450	1.2841 1.2454	1.1683 1.1869	Ave		1.2090				6.6		30.0			
Carbon disulfide	3.4311 3.4318	3.3975 3.4433	3.2175 3.6437	3.3775 3.6781	3.3646 3.5906	Ave		3.4576				4.1		30.0			
trans-1,2-Dichloroethene	+++++ 1.2406	1.3129 1.2220	1.3024 1.2508	1.2914 1.2294	1.2625 1.1653	Ave		1.2530				3.7		30.0			
2-Methylpentane	+++++ 3.3952	+++++ 3.3716	3.7395 3.5954	3.4263 3.5438	3.4333 3.3523	Ave		3.4822				3.8		30.0			
Methyl tert-butyl ether	+++++ 3.2414	3.5254 3.2891	3.3152 3.5327	3.3285 3.5287	3.3478 3.4064	Ave		3.3906				3.3		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 51007

SDG No.:

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2021 09:57 Calibration End Date: 06/19/2021 18:49 Calibration ID: 3105

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,1-Dichloroethane	+++++ 2.3789	2.6005 2.4188	2.5499 2.5091	2.5257 2.5091	2.4732 2.4408	Ave		2.4896				2.8		30.0			
Vinyl acetate	+++++ 3.4727	+++++ 3.6146	+++++ 3.9843	3.3212 4.1474	3.4138 4.1400	Ave		3.7277				9.5		30.0			
2-Butanone	+++++ 0.6238	+++++ 0.6046	+++++ 0.6346	0.7677 0.6329	0.8086 0.6073	Ave		0.6685				12.5		30.0			
Hexane	+++++ 1.0664	1.1135 1.0615	1.1924 1.1075	1.0499 1.1051	1.0878 1.0572	Ave		1.0935				4.0		30.0			
cis-1,2-Dichloroethene	+++++ 1.3014	1.5350 1.3002	1.3836 1.3404	1.3211 1.3542	1.3490 1.3220	Ave		1.3563				5.3		30.0			
Ethyl acetate	+++++ 3.1929	+++++ 3.2742	+++++ 3.5082	3.5238 3.5621	3.2528 3.5457	Ave		3.4085				4.7		30.0			
Chloroform	+++++ 2.6653	+++++ 2.6546	2.8557 2.7746	2.8184 2.7594	2.7488 2.6976	Ave		2.7468				2.6		30.0			
Tetrahydrofuran	+++++ 1.6272	1.8272 1.6691	1.7280 1.7480	1.6891 1.7916	1.6379 1.8006	Ave		1.7243				4.2		30.0			
1,1,1-Trichloroethane	2.7357 2.6180	2.7489 2.6835	2.6577 2.8433	2.6861 2.8570	2.6767 2.8017	Ave		2.7309				3.0		30.0			
1,2-Dichloroethane	+++++ 0.4029	+++++ 0.4049	0.4472 0.4135	0.4166 0.4151	0.4086 0.4045	Ave		0.4142				3.5		30.0			
1-Butanol	+++++ 0.1094	+++++ 0.1218	+++++ 0.1334	0.1299 0.1374	0.1245 0.1352	Ave		0.1274				7.6		30.0			
Cyclohexane	+++++ 0.1322	+++++ 0.1313	0.1241 0.1307	0.1309 0.1263	0.1377 0.1154	Ave		0.1286				5.2		30.0			
Benzene	+++++ 0.8249	+++++ 0.8040	0.9238 0.7954	0.8806 0.7596	0.8378 0.6914	Ave		0.8147				8.8		30.0			
Carbon tetrachloride	0.5558 0.4396	0.5084 0.5824	0.5565 0.5587	0.4004 0.6063	0.5654 0.5173	Ave		0.5291				12.2		30.0			
2,3-Dimethylpentane	+++++ 0.1888	0.1754 0.1861	0.1787 0.1899	0.1891 0.1834	0.1853 0.1758	Ave		0.1836				3.1		30.0			
Thiophene	0.4369 0.4588	0.4420 0.4510	0.4649 0.4589	0.4488 0.4485	0.4551 0.4367	Ave		0.4502				2.1		30.0			
2,2,4-Trimethylpentane	1.5437 1.4631	1.4784 1.4550	1.4757 1.4713	1.4324 1.4400	1.4425 1.3731	Ave		1.4575				3.0		30.0			
Heptane	0.2575 0.2832	0.2814 0.2881	0.2800 0.2899	0.2837 0.2853	0.2861 0.2719	Ave		0.2807				3.4		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 51007

SDG No.:

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2021 09:57 Calibration End Date: 06/19/2021 18:49 Calibration ID: 3105

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,2-Dichloropropane	+++++ 0.3559	+++++ 0.3486	0.3683 0.3477	0.3536 0.3421	0.3594 0.3249	Ave		0.3501				3.7		30.0			
Trichloroethene	0.4483 0.3652	0.3927 0.3555	0.3625 0.3532	0.3685 0.3457	0.3701 0.3279	Ave		0.3689				8.8		30.0			
Dibromomethane	+++++ 0.3475	+++++ 0.3463	0.3528 0.3443	0.3601 0.3437	0.3419 0.3278	Ave		0.3455				2.7		30.0			
Bromodichloromethane	0.5367 0.5385	0.5074 0.5629	0.4973 0.5854	0.5140 0.5900	0.5263 0.5644	Ave		0.5423				6.0		30.0			
1,4-Dioxane	+++++ 0.1209	+++++ 0.1294	0.1275 0.1288	0.1249 0.1252	0.1209 0.1133	Ave		0.1239				4.3		30.0			
Methyl methacrylate	+++++ 0.4062	+++++ 0.4317	0.4685 0.4553	0.4372 0.4683	0.4195 0.4522	Ave		0.4424				5.1		30.0			
Methylcyclohexane	+++++ 0.5085	0.4985 0.5123	0.4784 0.5063	0.5161 0.4988	0.5081 0.4730	Ave		0.5000				3.0		30.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.7741	0.7763 0.8015	0.7936 0.8146	0.8023 0.8061	0.8110 0.7887	Ave		0.7965				1.8		30.0			
cis-1,3-Dichloropropene	+++++ 0.4598	+++++ 0.4837	0.4293 0.4945	0.4198 0.4953	0.4396 0.4815	Ave		0.4629				6.5		30.0			
trans-1,3-Dichloropropene	+++++ 0.4020	+++++ 0.4335	0.3673 0.4690	0.3959 0.4731	0.3833 0.4534	Ave		0.4222				9.6		30.0			
Toluene	+++++ 1.1191	+++++ 1.1098	1.1487 1.1061	1.1492 1.0765	1.1286 1.0019	Ave		1.1050				4.3		30.0			
1,1,2-Trichloroethane	+++++ 0.3400	+++++ 0.3416	0.3545 0.3400	0.3558 0.3274	0.3495 0.3073	Ave		0.3395				4.7		30.0			
2-Hexanone	+++++ 0.3562	+++++ 0.3779	+++++ 0.3841	0.3500 0.3795	0.3516 0.3599	Ave		0.3656				3.9		30.0			
Octane	0.3126 0.3260	0.3056 0.3290	0.3172 0.3307	0.3323 0.3177	0.3155 0.2909	Ave		0.3177				4.0		30.0			
C8 Range	+++++ 3.2655	+++++ 3.2666	+++++ 3.2228	3.2031 3.1419	3.2269 2.9830	Ave		3.1871				3.1		30.0			
Dibromochloromethane	+++++ 0.5582	+++++ 0.6020	0.4596 0.6394	0.4799 0.6437	0.5325 0.6046	Ave		0.5650				12.4		30.0			
1,2-Dibromoethane	+++++ 0.5760	+++++ 0.5873	0.5703 0.5970	0.5797 0.5876	0.5683 0.5519	Ave		0.5773				2.4		30.0			
Tetrachloroethene	+++++ 0.4085	0.4560 0.4025	0.4547 0.3913	0.4334 0.3735	0.4092 0.3507	Ave		0.4089				8.6		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 51007

SDG No.:

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2021 09:57 Calibration End Date: 06/19/2021 18:49 Calibration ID: 3105

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Chlorobenzene	+++++ 0.8395	+++++ 0.8140	0.9767 0.7743	0.9015 0.7315	0.8547 0.6556	Ave		0.8185				12.2		30.0			
Ethylbenzene	+++++ 1.4308	+++++ 1.4324	1.5398 1.4414	1.4308 1.3854	1.3949 1.2852	Ave		1.4176				5.0		30.0			
m-Xylene & p-Xylene	+++++ 1.1220	1.3579 1.1224	1.1691 1.1135	1.1178 1.0396	1.1119 0.9201	Ave		1.1194				10.3		30.0			
Nonane	0.7206 0.7756	0.6967 0.7817	0.6990 0.7805	0.6941 0.7441	0.7580 0.6644	Ave		0.7315				5.8		30.0			
Bromoform	+++++ 0.5595	+++++ 0.6435	0.4422 0.7175	0.3968 0.7551	0.4914 0.7007	Ave		0.5883				23.0		30.0			
Styrene	+++++ 0.7861	0.7206 0.8041	0.6919 0.8030	0.6625 0.7602	0.7266 0.6812	Ave		0.7373				7.3		30.0			
o-Xylene	+++++ 1.1861	+++++ 1.1878	1.2679 1.1885	1.1830 1.1421	1.1911 1.0557	Ave		1.1753				5.1		30.0			
1,1,2,2-Tetrachloroethane	+++++ 0.8425	+++++ 0.8593	0.8629 0.8520	0.8094 0.8162	0.8182 0.7614	Ave		0.8277				4.1		30.0			
1,2,3-Trichloropropane	+++++ 0.2118	+++++ 0.2123	0.2137 0.2156	0.2078 0.2079	0.2081 0.1964	Ave		0.2092				2.8		30.0			
Isopropylbenzene	+++++ 1.5758	+++++ 1.5780	1.5932 1.5643	1.5595 1.4820	1.5475 1.3599	Ave		1.5325				5.1		30.0			
Propylbenzene	+++++ 0.4465	+++++ 0.4545	0.4166 0.4451	0.4305 0.4276	0.4291 0.3923	Ave		0.4303				4.6		30.0			
2-Chlorotoluene	+++++ 0.4041	+++++ 0.4015	+++++ 0.3940	0.4134 0.3797	0.4073 0.3515	Ave		0.3931				5.4		30.0			
4-Ethyltoluene	+++++ 1.6059	1.7829 1.6242	1.6682 1.6056	1.4689 1.5304	1.5815 1.3875	Ave		1.5839				7.2		30.0			
1,3,5-Trimethylbenzene	+++++ 0.6562	+++++ 0.6594	0.6904 0.6446	0.6599 0.6111	0.6580 0.5574	Ave		0.6421				6.3		30.0			
Alpha Methyl Styrene	+++++ 0.6324	+++++ 0.6771	+++++ 0.6886	0.5203 0.6713	0.5527 0.6275	Ave		0.6243				10.4		30.0			
Decane	0.9343 1.0598	0.9457 1.0512	0.9535 1.0184	1.0148 0.9343	1.0429 0.8048	Ave		0.9760				8.0		30.0			
tert-Butylbenzene	+++++ 1.4664	+++++ 1.4549	1.4935 1.3923	1.4646 1.2747	1.4649 1.1025	Ave		1.3892				9.7		30.0			
1,2,4-Trimethylbenzene	+++++ 1.4290	+++++ 1.4074	1.4696 1.3552	1.4239 1.2449	1.4062 1.0758	Ave		1.3515				9.6		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 51007

SDG No.:

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2021 09:57 Calibration End Date: 06/19/2021 18:49 Calibration ID: 3105

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
sec-Butylbenzene	+++++ 2.0352	2.1092 2.0333	2.0591 1.9466	1.9919 1.7806	2.0027 1.5270	Ave		1.9428				9.3		30.0			
1,3-Dichlorobenzene	+++++ 0.9165	+++++ 0.8970	1.0737 0.8715	0.9421 0.8324	0.9009 0.7355	Ave		0.8962				10.7		30.0			
Benzyl chloride	+++++ 0.9515	+++++ 1.0267	+++++ 1.0803	0.7038 1.0614	0.8181 0.9898	Ave		0.9474				14.6		30.0			
1,4-Dichlorobenzene	+++++ 0.8736	+++++ 0.8803	1.0454 0.8534	0.9259 0.8197	0.8720 0.7205	Ave		0.8738				10.5		30.0			
4-Isopropyltoluene	+++++ 1.7047	1.6750 1.6909	1.6475 1.6394	1.6036 1.5362	1.6390 1.3460	Ave		1.6091				6.9		30.0			
1,2,3-Trimethylbenzene	+++++ 1.4598	1.4044 1.4635	1.4078 1.4232	1.4073 1.3609	1.4155 1.2147	Ave		1.3952				5.3		30.0			
Indane	+++++ 1.3617	1.3913 1.3350	1.3480 1.2755	1.3045 1.1656	1.3251 0.9875	Ave		1.2771				9.9		30.0			
1,2-Dichlorobenzene	+++++ 0.9206	+++++ 0.8992	1.0890 0.8553	0.9827 0.7929	0.9250 0.6823	Ave		0.8934				13.7		30.0			
Butylbenzene	+++++ 1.7403	+++++ 1.7358	1.7719 1.6246	1.6206 1.4551	1.6632 1.2248	Ave		1.6045				11.4		30.0			
Indene	+++++ 1.1432	1.0766 1.1423	1.0371 1.0867	1.0057 0.9919	1.0511 0.8554	Ave		1.0434				8.5		30.0			
Undecane	+++++ 1.2720	+++++ 1.2446	1.1110 1.1703	1.1328 1.0663	1.1948 0.9005	Ave		1.1366				10.3		30.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.4455	0.4366 0.4699	0.3834 0.5147	0.3392 0.5224	0.3857 0.4995	Ave		0.4441				14.5		30.0			
1,2,4,5-Tetramethylbenzene	+++++ 1.6688	1.6246 1.6611	1.6544 1.6004	1.5779 1.5163	1.5677 1.3432	Ave		1.5794				6.4		30.0			
Dodecane	+++++ 1.3634	+++++ 1.2684	+++++ 1.1771	1.1356 1.1101	1.1936 0.9544	Ave		1.1718				11.0		30.0			
1,2,4-Trichlorobenzene	+++++ 0.8014	+++++ 0.7941	1.0952 0.8247	0.8625 0.8531	0.7534 0.8094	Ave		0.8492				12.4		30.0			
Naphthalene	+++++ 1.7237	2.6850 1.6979	2.0916 1.6754	1.6346 1.7163	1.5772 1.5739	Lin2	0.0405	1.6029							0.9940		0.9900
Hexachlorobutadiene	+++++ 0.9441	+++++ 0.9096	1.1566 0.9183	1.0581 0.9267	0.9225 0.8390	Ave		0.9594				10.4		30.0			
1,2,3-Trichlorobenzene	+++++ 0.8373	+++++ 0.8025	1.1044 0.7855	0.8827 0.8077	0.7956 0.7652	Ave		0.8476				12.9		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 51007

SDG No.:

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2021 09:57 Calibration End Date: 06/19/2021 18:49 Calibration ID: 3105

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
2-Methylnaphthalene	+++++ 0.4928	+++++ 0.4741	+++++ 0.3842	+++++ 0.5026	0.3853 0.5204	Ave		0.4599				13.1		50.0			
1-Methylnaphthalene	+++++ 0.5952	+++++ 0.5365	+++++ 0.4033	0.4609 0.4873	0.5196 0.5039	Ave		0.5009				12.0		50.0			
4-Bromofluorobenzene (Surr)	0.7414 0.7504	0.7398 0.7545	0.7359 0.7702	0.7252 0.7705	0.7413 0.7732	Ave		0.7502				2.2		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 51007

SDG No.:

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2021 09:57 Calibration End Date: 06/19/2021 18:49 Calibration ID: 3105

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-51007/10	RF19IC01.D
Level 2	IC 140-51007/11	RF19IC02.D
Level 3	IC 140-51007/12	RF19IC03.D
Level 4	IC 140-51007/13	RF19IC04.D
Level 5	IC 140-51007/14	RF19IC05.D
Level 6	IC 140-51007/15	RF19IC06.D
Level 7	ICIS 140-51007/16	RF19IC07.D
Level 8	IC 140-51007/8	RF19IC08.D
Level 9	IC 140-51007/6	RF19IC09.D
Level 10	IC 140-51007/4	RF19IC10.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Chlorodifluoromethane	CBM	Ave	+++++	7000	13215	25701	60013	+++++	0.0400	0.0800	0.160	0.400
			147714	298163	664436	+++++	+++++	1.00	2.00	4.00	+++++	+++++
Propene	CBM	Ave	+++++	+++++	7860	13932	33936	+++++	+++++	0.0800	0.160	0.400
			80465	163542	363917	+++++	+++++	1.00	2.00	4.00	+++++	+++++
Dichlorodifluoromethane	CBM	Ave	5248	10334	19186	38429	92444	0.0200	0.0400	0.0800	0.160	0.400
			230699	472117	1034120	+++++	+++++	1.00	2.00	4.00	+++++	+++++
Chloromethane	CBM	Ave	+++++	+++++	2036	4716	10810	+++++	+++++	0.0800	0.160	0.400
			21001	41287	91792	+++++	+++++	1.00	2.00	4.00	+++++	+++++
1,2-Dichlorotetrafluoroethane	CBM	Ave	3379	6291	11970	25291	62609	0.0200	0.0400	0.0800	0.160	0.400
			138964	275146	608766	1308464	2340693	1.00	2.00	4.00	8.00	16.0
Vinyl chloride	CBM	Ave	+++++	3131	6090	12660	30022	+++++	0.0400	0.0800	0.160	0.400
			67138	134550	305688	625993	1168913	1.00	2.00	4.00	8.00	16.0
Butane	CBM	Ave	2345	5237	9934	19298	48017	0.0200	0.0400	0.0800	0.160	0.400
			109996	221672	491818	990376	1868597	1.00	2.00	4.00	8.00	16.0
1,3-Butadiene	CBM	Ave	+++++	+++++	5101	9570	23526	+++++	+++++	0.0800	0.160	0.400
			55690	111774	249940	505626	953845	1.00	2.00	4.00	8.00	16.0
Bromomethane	CBM	Ave	+++++	+++++	5361	12017	26883	+++++	+++++	0.0800	0.160	0.400
			60524	124421	277412	572428	1108667	1.00	2.00	4.00	8.00	16.0
Chloroethane	CBM	Ave	+++++	+++++	2743	5000	12165	+++++	+++++	0.0800	0.160	0.400
			27038	53869	122319	255529	494415	1.00	2.00	4.00	8.00	16.0
Ethanol	CBM	Ave	+++++	+++++	15341	31494	70847	+++++	+++++	0.400	0.800	2.00
			171753	354615	772804	1560428	2922727	5.00	10.0	20.0	40.0	80.0
Vinyl bromide	CBM	Ave	+++++	3247	6330	11912	29370	+++++	0.0400	0.0800	0.160	0.400
			66921	136295	322641	674834	1302557	1.00	2.00	4.00	8.00	16.0

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 51007

SDG No.:

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2021 09:57 Calibration End Date: 06/19/2021 18:49 Calibration ID: 3105

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
2-Methylbutane	CBM	Ave	+++++ 106292	5115 211442	10705 509950	20189 1042353	46684 1926940	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Trichlorofluoromethane	CBM	Ave	5336 219221	9740 441052	18421 1036080	36509 2106422	90450 3864251	0.0200 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Acrolein	CBM	Ave	+++++ 26108	+++++ 54204	+++++ 129423	5065 272403	12789 519531	+++++ 1.00	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0
Acetonitrile	CBM	Ave	+++++ 39082	+++++ 77994	3468 188664	6894 391139	17608 731518	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Acetone	CBM	Lin1	+++++ 151562	+++++ 261502	+++++ 587384	+++++ 1169030	110404 2127567	+++++ 3.00	+++++ 6.00	+++++ 12.0	+++++ 24.0	1.20 48.0
Isopropyl alcohol	CBM	Ave	+++++ 359505	+++++ 792084	33833 1841462	66070 3666948	159766 6510855	+++++ 3.00	+++++ 6.00	0.240 12.0	0.480 24.0	1.20 48.0
Pentane	CBM	Ave	+++++ 11242	+++++ 23399	1013 53696	1726 104892	4971 188807	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Ethyl ether	CBM	Ave	+++++ 99001	4664 201799	8480 502114	16797 1027265	41131 1920814	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
1,1-Dichloroethene	CBM	Ave	+++++ 81488	3852 166665	7201 383639	14046 781427	33724 1442517	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
t-Butyl alcohol	CBM	Ave	+++++ 144220	+++++ 314588	13294 765047	24645 1529061	62133 2791327	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Acrylonitrile	CBM	Ave	+++++ 63301	+++++ 132751	5907 317185	11040 644119	26033 1204659	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
1,1,2-Trichlorotrifluoroethane	CBM	Ave	4181 183451	8055 366650	15946 835323	30746 1679191	76438 3052504	0.0200 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Methylene Chloride	CBM	Ave	+++++ 75390	+++++ 150696	+++++ 343657	+++++ 684697	31675 1258019	+++++ 1.00	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0
3-Chloropropene	CBM	Ave	+++++ 71438	+++++ 155615	7242 377029	13946 768928	31239 1411303	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Carbon disulfide	CBM	Ave	5082 228591	9639 465636	17667 1103478	36680 2270984	89965 4269505	0.0200 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
trans-1,2-Dichloroethene	CBM	Ave	+++++ 82639	3725 165258	7151 378794	14025 759092	33757 1385670	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
2-Methylpentane	CBM	Ave	+++++ 226154	+++++ 455939	20533 1088867	37210 2188090	91804 3986186	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Methyl tert-butyl ether	CBM	Ave	+++++ 215910	10002 444783	18203 1069849	36148 2178736	89518 4050485	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 51007

SDG No.:

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2021 09:57 Calibration End Date: 06/19/2021 18:49 Calibration ID: 3105

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,1-Dichloroethane	CBM	Ave	+++++ 158461	7378 327097	14001 759863	27430 1549237	66131 2902395	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Vinyl acetate	CBM	Ave	+++++ 231318	+++++ 488799	+++++ 1206627	36069 2560768	91282 4922876	+++++ 1.00	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0
2-Butanone	CBM	Ave	+++++ 41552	+++++ 81762	+++++ 192177	8337 390748	21620 722145	+++++ 1.00	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0
Hexane	CBM	Ave	+++++ 71031	3159 143544	6547 335387	11402 682338	29087 1257129	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
cis-1,2-Dichloroethene	CBM	Ave	+++++ 86684	4355 175828	7597 405936	14347 836137	36072 1571993	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Ethyl acetate	CBM	Ave	+++++ 212677	+++++ 442773	+++++ 1062432	38269 2199405	86976 4216192	+++++ 1.00	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0
Chloroform	CBM	Ave	+++++ 177534	+++++ 358989	15680 840281	30608 1703773	73500 3207658	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Tetrahydrofuran	CBM	Ave	+++++ 108391	5184 225708	9488 529376	18344 1106208	43796 2141024	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
1,1,1-Trichloroethane	CBM	Ave	4052 174387	7799 362888	14593 861084	29172 1764045	71572 3331510	0.0200 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
1,2-Dichloroethane	DFBZ	Ave	+++++ 126805	+++++ 259743	11655 613424	21594 1256689	51822 2394113	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
1-Butanol	DFBZ	Ave	+++++ 34434	+++++ 78139	+++++ 197982	6735 415860	15787 800188	+++++ 1.00	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0
Cyclohexane	DFBZ	Ave	+++++ 41607	+++++ 84258	3235 193945	6785 382516	17456 683215	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Benzene	DFBZ	Ave	+++++ 259654	+++++ 515758	24078 1180099	45639 2299899	106238 4092123	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Carbon tetrachloride	DFBZ	Ave	3960 138361	6964 373606	14504 828973	20752 1835820	71700 3061571	0.0200 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
2,3-Dimethylpentane	DFBZ	Ave	+++++ 59412	2403 119410	4657 281757	9801 555328	23502 1040433	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Thiophene	DFBZ	Ave	3113 144410	6055 289312	12116 680891	23260 1357806	57708 2584461	0.0200 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
2,2,4-Trimethylpentane	DFBZ	Ave	10999 460514	20250 933389	38461 2182846	74241 4360014	182927 8126919	0.0200 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Heptane	DFBZ	Ave	1835 89145	3854 184822	7298 430045	14703 863904	36281 1609386	0.0200 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 51007

SDG No.:

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2021 09:57 Calibration End Date: 06/19/2021 18:49 Calibration ID: 3105

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,2-Dichloropropane	DFBZ	Ave	+++++ 112023	+++++ 223642	9599 515853	18326 1035713	45579 1922789	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Trichloroethene	DFBZ	Ave	3194 114954	5379 228031	9449 523969	19097 1046653	46931 1940610	0.0200 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Dibromomethane	DFBZ	Ave	+++++ 109388	+++++ 222126	9196 510830	18662 1040537	43354 1939856	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Bromodichloromethane	DFBZ	Ave	3824 169486	6950 361082	12960 868586	26642 1786203	66737 3340657	0.0200 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
1,4-Dioxane	DFBZ	Ave	+++++ 38059	+++++ 83030	3324 191040	6472 379153	15329 670422	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Methyl methacrylate	DFBZ	Ave	+++++ 127867	+++++ 276938	12210 675548	22662 1417962	53195 2676112	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Methylcyclohexane	DFBZ	Ave	+++++ 160045	6828 328646	12469 751242	26751 1510299	64429 2799539	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
4-Methyl-2-pentanone (MIBK)	DFBZ	Ave	+++++ 243654	10634 514176	20683 1208650	41583 2440598	102844 4668130	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
cis-1,3-Dichloropropene	DFBZ	Ave	+++++ 144713	+++++ 310264	11190 733669	21760 1499486	55751 2849866	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
trans-1,3-Dichloropropene	CBZd 5	Ave	+++++ 120449	+++++ 266392	9026 662938	19131 1383831	45605 2631508	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Toluene	CBZd 5	Ave	+++++ 335269	+++++ 682011	28226 1563468	55526 3148691	134277 5814993	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
1,1,2-Trichloroethane	CBZd 5	Ave	+++++ 101874	+++++ 209922	8712 480566	17190 957763	41582 1783753	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
2-Hexanone	CBZd 5	Ave	+++++ 106725	+++++ 232266	+++++ 542892	16909 1109956	41832 2088650	+++++ 1.00	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0
Octane	CBZd 5	Ave	2071 97657	3887 202167	7794 467387	16054 929285	37532 1688186	0.0200 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
C8 Range	DFBZ	Ave	+++++ 1027814	+++++ 2095484	+++++ 4781569	166013 9512635	409211 17655078	+++++ 1.00	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 51007

SDG No.:

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2021 09:57 Calibration End Date: 06/19/2021 18:49 Calibration ID: 3105

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dibromochloromethane	CBZd 5	Ave	+++++ 167240	+++++ 369978	11293 903772	23187 1882794	63352 3508953	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
1,2-Dibromoethane	CBZd 5	Ave	+++++ 172560	+++++ 360945	14013 843840	28008 1718771	67612 3203100	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Tetrachloroethene	CBZd 5	Ave	+++++ 122389	5800 247340	11172 553094	20941 1092404	48688 2035559	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Chlorobenzene	CBZd 5	Ave	+++++ 251493	+++++ 500247	24000 1094447	43556 2139563	101686 3804942	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Ethylbenzene	CBZd 5	Ave	+++++ 428647	+++++ 880245	37837 2037261	69135 4052164	165951 7459049	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
m-Xylene & p-Xylene	CBZd 5	Ave	+++++ 672305	34546 1379573	57457 3147719	108018 6081643	264584 10680809	+++++ 2.00	0.0800 4.00	0.160 8.00	0.320 16.0	0.800 32.0
Nonane	CBZd 5	Ave	4774 232371	8862 480400	17176 1103175	33536 2176437	90178 3856145	0.0200 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Bromoform	CBZd 5	Ave	+++++ 167629	+++++ 395465	10865 1014160	19172 2208558	58462 4066934	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Styrene	CBZd 5	Ave	+++++ 235517	9166 494143	17002 1134945	32009 2223508	86451 3953399	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
o-Xylene	CBZd 5	Ave	+++++ 355356	+++++ 729935	31155 1679867	57160 3340639	141714 6127523	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
1,1,2,2-Tetrachloroethane	CBZd 5	Ave	+++++ 252401	+++++ 528105	21203 1204315	39106 2387326	97345 4418864	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
1,2,3-Trichloropropane	CBZd 5	Ave	+++++ 63444	+++++ 130444	5251 304703	10038 608070	24757 1140066	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 51007

SDG No.:

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2021 09:57 Calibration End Date: 06/19/2021 18:49 Calibration ID: 3105

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Isopropylbenzene	CBZd 5	Ave	+++++	+++++	39150	75353	184114	+++++	+++++	0.0800	0.160	0.400
			472083	969757	2210967	4334816	7892791	1.00	2.00	4.00	8.00	16.0
Propylbenzene	CBZd 5	Ave	+++++	+++++	10237	20802	51052	+++++	+++++	0.0800	0.160	0.400
			133760	279334	629139	1250795	2277057	1.00	2.00	4.00	8.00	16.0
2-Chlorotoluene	CBZd 5	Ave	+++++	+++++	+++++	19975	48461	+++++	+++++	+++++	0.160	0.400
			121070	246717	556848	1110481	2039854	1.00	2.00	4.00	8.00	16.0
4-Ethyltoluene	CBZd 5	Ave	+++++	22679	40993	70973	188159	+++++	0.0400	0.0800	0.160	0.400
			481113	998141	2269393	4476310	8053182	1.00	2.00	4.00	8.00	16.0
1,3,5-Trimethylbenzene	CBZd 5	Ave	+++++	+++++	16965	31887	78281	+++++	+++++	0.0800	0.160	0.400
			196605	405246	911093	1787465	3234976	1.00	2.00	4.00	8.00	16.0
Alpha Methyl Styrene	CBZd 5	Ave	+++++	+++++	+++++	25139	65760	+++++	+++++	+++++	0.160	0.400
			189471	416091	973222	1963607	3642040	1.00	2.00	4.00	8.00	16.0
Decane	CBZd 5	Ave	6190	12029	23430	49034	124082	0.0200	0.0400	0.0800	0.160	0.400
			317493	646036	1439473	2732871	4671123	1.00	2.00	4.00	8.00	16.0
tert-Butylbenzene	CBZd 5	Ave	+++++	+++++	36698	70768	174280	+++++	+++++	0.0800	0.160	0.400
			439303	894122	1967987	3728387	6398984	1.00	2.00	4.00	8.00	16.0
1,2,4-Trimethylbenzene	CBZd 5	Ave	+++++	+++++	36112	68797	167300	+++++	+++++	0.0800	0.160	0.400
			428115	864881	1915422	3641435	6244196	1.00	2.00	4.00	8.00	16.0
sec-Butylbenzene	CBZd 5	Ave	+++++	26829	50596	96245	238270	+++++	0.0400	0.0800	0.160	0.400
			609730	1249565	2751413	5208220	8862459	1.00	2.00	4.00	8.00	16.0
1,3-Dichlorobenzene	CBZd 5	Ave	+++++	+++++	26383	45521	107185	+++++	+++++	0.0800	0.160	0.400
			274567	551262	1231755	2434716	4268948	1.00	2.00	4.00	8.00	16.0
Benzyl chloride	CBZd 5	Ave	+++++	+++++	+++++	34007	97335	+++++	+++++	+++++	0.160	0.400
			285054	630948	1526879	3104445	5744665	1.00	2.00	4.00	8.00	16.0

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 51007

SDG No.:

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2021 09:57 Calibration End Date: 06/19/2021 18:49 Calibration ID: 3105

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,4-Dichlorobenzene	CBZd 5	Ave	+++++	+++++	25687	44735	103743	+++++	+++++	0.0800	0.160	0.400
			261718	540973	1206251	2397517	4181739	1.00	2.00	4.00	8.00	16.0
4-Isopropyltoluene	CBZd 5	Ave	+++++	21306	40482	77480	194995	+++++	0.0400	0.0800	0.160	0.400
			510696	1039154	2317118	4493338	7812229	1.00	2.00	4.00	8.00	16.0
1,2,3-Trimethylbenzene	CBZd 5	Ave	+++++	17864	34593	67995	168405	+++++	0.0400	0.0800	0.160	0.400
			437334	899411	2011560	3980698	7049976	1.00	2.00	4.00	8.00	16.0
Indane	CBZd 5	Ave	+++++	17698	33124	63030	157647	+++++	0.0400	0.0800	0.160	0.400
			407949	820413	1802840	3409376	5731558	1.00	2.00	4.00	8.00	16.0
1,2-Dichlorobenzene	CBZd 5	Ave	+++++	+++++	26760	47481	110053	+++++	+++++	0.0800	0.160	0.400
			275800	552595	1208932	2319265	3960284	1.00	2.00	4.00	8.00	16.0
Butylbenzene	CBZd 5	Ave	+++++	+++++	43541	78305	197877	+++++	+++++	0.0800	0.160	0.400
			521360	1066715	2296288	4256139	7108706	1.00	2.00	4.00	8.00	16.0
Indene	CBZd 5	Ave	+++++	13695	25485	48595	125058	+++++	0.0400	0.0800	0.160	0.400
			342488	702015	1536049	2901337	4964762	1.00	2.00	4.00	8.00	16.0
Undecane	CBZd 5	Ave	+++++	+++++	27300	54735	142150	+++++	+++++	0.0800	0.160	0.400
			381085	764853	1654198	3119039	5226444	1.00	2.00	4.00	8.00	16.0
1,2-Dibromo-3-Chloropropane	CBZd 5	Ave	+++++	5554	9421	16389	45884	+++++	0.0400	0.0800	0.160	0.400
			133457	288793	727534	1528129	2898872	1.00	2.00	4.00	8.00	16.0
1,2,4,5-Tetramethylbenzene	CBZd 5	Ave	+++++	20665	40653	76240	186510	+++++	0.0400	0.0800	0.160	0.400
			499948	1020836	2262058	4435106	7796181	1.00	2.00	4.00	8.00	16.0
Dodecane	CBZd 5	Ave	+++++	+++++	+++++	54871	142011	+++++	+++++	+++++	0.160	0.400
			408456	779472	1663722	3247083	5539484	1.00	2.00	4.00	8.00	16.0
1,2,4-Trichlorobenzene	CBZd 5	Ave	+++++	+++++	26912	41673	89630	+++++	+++++	0.0800	0.160	0.400
			240084	488023	1165715	2495454	4697591	1.00	2.00	4.00	8.00	16.0

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 51007

SDG No.:

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2021 09:57 Calibration End Date: 06/19/2021 18:49 Calibration ID: 3105

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Naphthalene	CBZd 5	Lin2	+++++	34154	51396	78980	187640	+++++	0.0400	0.0800	0.160	0.400
			516404	1043411	2368118	5020108	9134899	1.00	2.00	4.00	8.00	16.0
Hexachlorobutadiene	CBZd 5	Ave	+++++	+++++	28421	51123	109755	+++++	+++++	0.0800	0.160	0.400
			282827	558980	1297964	2710553	4869399	1.00	2.00	4.00	8.00	16.0
1,2,3-Trichlorobenzene	CBZd 5	Ave	+++++	+++++	27137	42648	94653	+++++	+++++	0.0800	0.160	0.400
			250844	493144	1110200	2362391	4441323	1.00	2.00	4.00	8.00	16.0
2-Methylnaphthalene	CBZd 5	Ave	+++++	+++++	+++++	+++++	45840	+++++	+++++	+++++	+++++	0.400
			147659	291340	543025	1470097	3020354	1.00	2.00	4.00	8.00	16.0
1-Methylnaphthalene	CBZd 5	Ave	+++++	+++++	+++++	22271	61816	+++++	+++++	+++++	0.160	0.400
			178316	329729	570018	1425275	2924598	1.00	2.00	4.00	8.00	16.0
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	1139516	1091605	1048768	1016210	1023106	4.64	4.64	4.64	4.64	4.64
			1043163	1075672	1262780	1307201	1301451	4.64	4.64	4.64	4.64	4.64

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 51007

SDG No.:

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2021 09:57 Calibration End Date: 06/19/2021 18:49 Calibration ID: 3105

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-51007/10	RF19IC01.D
Level 2	IC 140-51007/11	RF19IC02.D
Level 3	IC 140-51007/12	RF19IC03.D
Level 4	IC 140-51007/13	RF19IC04.D
Level 5	IC 140-51007/14	RF19IC05.D
Level 6	IC 140-51007/15	RF19IC06.D
Level 7	ICIS 140-51007/16	RF19IC07.D
Level 8	IC 140-51007/8	RF19IC08.D
Level 9	IC 140-51007/6	RF19IC09.D
Level 10	IC 140-51007/4	RF19IC10.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Chlorodifluoromethane	+++++	7.3	+++++	+++++				50				
Propene	+++++	+++++	13.0 +++++	+++++					50			
Dichlorodifluoromethane	1.1		+++++	+++++			50					
Chloromethane	+++++	+++++	4.3 +++++	+++++					50			
1,2-Dichlorotetrafluoroethane	5.8						50					
Vinyl chloride	+++++	4.4						50				
Butane	-6.3						50					
1,3-Butadiene	+++++	+++++	9.3						50			
Bromomethane	+++++	+++++	1.5						50			
Chloroethane	+++++	+++++	15.7						50			
Ethanol	+++++	+++++	6.0						50			
Vinyl bromide	+++++	5.5						50				
2-Methylbutane	+++++	4.6						50				
Trichlorofluoromethane	6.7						50					

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SDG No.:

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

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ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Acrolein	+++++	+++++	+++++	7.3						50		
Acetonitrile	+++++	+++++	1.9						50			
Acetone	+++++	+++++	+++++	+++++	23.0						80	
Isopropyl alcohol	+++++	+++++	4.9						50			
Pentane	+++++	+++++	7.2						50			
Ethyl ether	+++++	4.3						50				
1,1-Dichloroethene	+++++	7.0						50				
t-Butyl alcohol	+++++	+++++	2.7						50			
Acrylonitrile	+++++	+++++	6.2						50			
1,1,2-Trichlorotrifluoroethane	1.7						50					
Methylene Chloride	+++++	+++++	+++++	+++++	5.6						80	
3-Chloropropene	+++++	+++++	9.1						50			
Carbon disulfide	-0.8						50					
trans-1,2-Dichloroethene	+++++	4.8						50				
2-Methylpentane	+++++	+++++	7.4						50			
Methyl tert-butyl ether	+++++	4.0						50				
1,1-Dichloroethane	+++++	4.5						50				
Vinyl acetate	+++++	+++++	+++++	-10.9						50		
2-Butanone	+++++	+++++	+++++	14.8						50		
Hexane	+++++	1.8						50				
cis-1,2-Dichloroethene	+++++	13.2						50				

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READBACK PERCENT ERROR

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ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Ethyl acetate	+++++	+++++	+++++	3.4						50		
Chloroform	+++++	+++++	4.0						50			
Tetrahydrofuran	+++++	6.0						50				
1,1,1-Trichloroethane	0.2						50					
1,2-Dichloroethane	+++++	+++++	8.0						50			
1-Butanol	+++++	+++++	+++++	2.0						50		
Cyclohexane	+++++	+++++	-3.5						50			
Benzene	+++++	+++++	13.4						50			
Carbon tetrachloride	5.0						50					
2,3-Dimethylpentane	+++++	-4.5						50				
Thiophene	-2.9						50					
2,2,4-Trimethylpentane	5.9						50					
Heptane	-8.3						50					
1,2-Dichloropropane	+++++	+++++	5.2						50			
Trichloroethene	21.5						50					
Dibromomethane	+++++	+++++	2.1						50			
Bromodichloromethane	-1.0						50					
1,4-Dioxane	+++++	+++++	3.0						50			
Methyl methacrylate	+++++	+++++	5.9						50			
Methylcyclohexane	+++++	-0.3						50				
4-Methyl-2-pentanone (MIBK)	+++++	-2.5						50				

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 51007

SDG No.:

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2021 09:57 Calibration End Date: 06/19/2021 18:49 Calibration ID: 3105

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
cis-1,3-Dichloropropene	+++++	+++++	-7.3						50			
trans-1,3-Dichloropropene	+++++	+++++	-13.0						50			
Toluene	+++++	+++++	4.0						50			
1,1,2-Trichloroethane	+++++	+++++	4.4						50			
2-Hexanone	+++++	+++++	+++++	-4.3						50		
Octane	-1.6						50					
Dibromochloromethane	+++++	+++++	-18.7						50			
1,2-Dibromoethane	+++++	+++++	-1.2						50			
Tetrachloroethene	+++++	11.5						50				
Chlorobenzene	+++++	+++++	19.3						50			
Ethylbenzene	+++++	+++++	8.6						50			
m-Xylene & p-Xylene	+++++	21.3						50				
Nonane	-1.5						50					
Bromoform	+++++	+++++	-24.8						50			
Styrene	+++++	-2.3						50				
o-Xylene	+++++	+++++	7.9						50			
1,1,2,2-Tetrachloroethane	+++++	+++++	4.2						50			
1,2,3-Trichloropropane	+++++	+++++	2.2						50			
Isopropylbenzene	+++++	+++++	4.0						50			
Propylbenzene	+++++	+++++	-3.2						50			
2-Chlorotoluene	+++++	+++++	+++++	5.2						50		

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 51007

SDG No.:

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2021 09:57 Calibration End Date: 06/19/2021 18:49 Calibration ID: 3105

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
4-Ethyltoluene	+++++	12.6						50				
1,3,5-Trimethylbenzene	+++++	+++++	7.5						50			
Alpha Methyl Styrene	+++++	+++++	+++++	-16.7						50		
Decane	-4.3						50					
tert-Butylbenzene	+++++	+++++	7.5						50			
1,2,4-Trimethylbenzene	+++++	+++++	8.7						50			
sec-Butylbenzene	+++++	8.6						50				
1,3-Dichlorobenzene	+++++	+++++	19.8						50			
Benzyl chloride	+++++	+++++	+++++	-25.7						50		
1,4-Dichlorobenzene	+++++	+++++	19.6						50			
4-Isopropyltoluene	+++++	4.1						50				
1,2,3-Trimethylbenzene	+++++	0.7						50				
Indane	+++++	8.9						50				
1,2-Dichlorobenzene	+++++	+++++	21.9						50			
Butylbenzene	+++++	+++++	10.4						50			
Indene	+++++	3.2						50				
Undecane	+++++	+++++	-2.2						50			
1,2-Dibromo-3-Chloropropane	+++++	-1.7						50				
1,2,4,5-Tetramethylbenzene	+++++	2.9						50				
Dodecane	+++++	+++++	+++++	-3.1						50		
1,2,4-Trichlorobenzene	+++++	+++++	29.0						50			

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 51007

SDG No.:

Instrument ID: MR GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2021 09:57 Calibration End Date: 06/19/2021 18:49 Calibration ID: 3105

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Naphthalene	+++++	4.4						80				
Hexachlorobutadiene	+++++	+++++	20.6						50			
1,2,3-Trichlorobenzene	+++++	+++++	30.3						50			
2-Methylnaphthalene	+++++	+++++	+++++	+++++	-16.2						80	
1-Methylnaphthalene	+++++	+++++	+++++	-8.0						80		

Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC10.D
Lims ID: IC L10
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 19-Jun-2021 09:57:30 ALS Bottle#: 8 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019646-004
Misc. Info.: 387533
Operator ID: HMT Instrument ID: MR
Sublist: chrom-MR_TO15*sub16

Method: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\MR_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Jun-2021 11:40:19 Calib Date: 19-Jun-2021 18:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1626

First Level Reviewer: tajh Date: 19-Jun-2021 10:47:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.808	8.792	0.016	98	356728	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.024	11.009	0.015	95	1775563	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	15.829	15.825	0.004	87	1741193	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.479	17.475	0.004	95	1301451	4.64	4.78	
6 Chlorodifluoromethane	51	3.534	3.540	-0.006	97	857440	16.0	5.02	
7 Propene	41	3.545	3.552	-0.007	20	3369	16.0	0.0358	
8 Dichlorodifluoromethane	85	3.604	3.605	-0.001	100	3795366	16.0	14.6	
9 Chloromethane	52	3.793	3.787	0.006	98	367014	16.0	13.9	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.804	3.795	0.009	91	2340693	16.0	14.6	
11 Acetaldehyde	44	3.949	3.945	0.004	98	2399548	80.0	80.6	
12 Vinyl chloride	62	3.971	3.961	0.010	99	1168913	16.0	14.9	
13 Butane	43	4.057	4.050	0.007	84	1868597	16.0	14.9	
14 Butadiene	54	4.057	4.050	0.007	69	953845	16.0	15.1	
15 Bromomethane	94	4.386	4.376	0.010	98	1108667	16.0	15.5	
16 Chloroethane	64	4.532	4.520	0.012	90	494415	16.0	15.4	
17 Ethanol	31	4.634	4.610	0.024	96	2922727	80.0	74.6	
18 Vinyl bromide	106	4.834	4.824	0.010	99	1302557	16.0	16.2	
19 2-Methylbutane	43	4.882	4.872	0.010	94	1926940	16.0	15.0	
20 Trichlorofluoromethane	101	5.109	5.099	0.010	99	3864251	16.0	15.4	
21 Acrolein	56	5.125	5.114	0.011	95	519531	16.0	16.1	
22 Acetonitrile	40	5.195	5.182	0.013	99	731518	16.0	15.9	
23 Acetone	58	5.233	5.233	0.000	99	2127567	48.0	48.1	
24 Isopropyl alcohol	45	5.330	5.315	0.015	92	6510855	48.0	44.8	
25 Pentane	72	5.335	5.322	0.013	94	188807	16.0	14.8	
26 Ethyl ether	31	5.497	5.507	-0.010	93	1920814	16.0	16.4	
27 1,1-Dichloroethene	96	5.837	5.825	0.012	94	1442517	16.0	15.3	
29 Acrylonitrile	53	5.955	5.939	0.016	94	1204659	16.0	16.0	
28 2-Methyl-2-propanol	59	5.934	5.940	-0.006	97	2791327	16.0	15.9	
30 112TCTFE	101	6.015	6.005	0.010	97	3052504	16.0	14.8	
31 Methylene Chloride	84	6.203	6.188	0.015	96	1258019	16.0	15.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.214	6.203	0.011	94	1411303	16.0	15.7	
33 Carbon disulfide	76	6.360	6.351	0.009	99	4269505	16.0	16.6	
34 trans-1,2-Dichloroethene	96	7.029	7.015	0.014	93	1385670	16.0	14.9	
35 2-Methylpentane	43	7.039	7.026	0.013	96	3986186	16.0	15.4	
36 Methyl tert-butyl ether	73	7.136	7.159	-0.023	98	4050485	16.0	16.1	
37 1,1-Dichloroethane	63	7.465	7.449	0.016	100	2902395	16.0	15.7	
38 Vinyl acetate	43	7.568	7.554	0.014	100	4922876	16.0	17.8	
39 2-Butanone (MEK)	72	8.015	8.024	-0.009	96	722145	16.0	14.5	
40 Hexane	56	8.042	8.029	0.013	87	1257129	16.0	15.5	
41 Isopropyl ether	45	8.199	8.211	-0.012	97	6082401	16.0	16.2	
42 cis-1,2-Dichloroethene	96	8.468	8.452	0.016	98	1571993	16.0	15.6	
43 Ethyl acetate	43	8.641	8.646	-0.005	98	4216192	16.0	16.6	
44 Chloroform	83	8.824	8.801	0.023	97	3207658	16.0	15.7	
45 Tert-butyl ethyl ether	59	8.883	8.902	-0.019	97	5222633	16.0	16.7	
46 Tetrahydrofuran	42	9.202	9.228	-0.026	94	2141024	16.0	16.7	
47 1,1,1-Trichloroethane	97	9.860	9.847	0.013	97	3331510	16.0	16.4	
48 1,2-Dichloroethane	62	9.984	9.964	0.020	97	2394113	16.0	15.6	
49 n-Butanol	31	10.404	10.421	-0.017	93	800188	16.0	17.0	
50 Cyclohexane	69	10.458	10.450	0.008	91	683215	16.0	14.4	
51 Benzene	78	10.469	10.455	0.014	98	4092123	16.0	13.6	
52 Carbon tetrachloride	117	10.490	10.475	0.015	98	3061571	16.0	15.6	
53 2,3-Dimethylpentane	71	10.582	10.571	0.011	92	1040433	16.0	15.3	
54 Thiophene	84	10.749	10.735	0.014	97	2584461	16.0	15.5	
55 Isooctane	57	11.229	11.217	0.012	97	8126919	16.0	15.1	
56 n-Heptane	71	11.612	11.598	0.014	95	1609386	16.0	15.5	
57 1,2-Dichloropropane	63	11.704	11.691	0.013	91	1922789	16.0	14.8	
58 Trichloroethene	130	11.736	11.725	0.011	95	1940610	16.0	14.2	
59 Dibromomethane	93	11.828	11.814	0.014	93	1939856	16.0	15.2	
60 Dichlorobromomethane	83	11.973	11.959	0.014	99	3340657	16.0	16.7	
61 1,4-Dioxane	88	11.968	11.990	-0.022	96	670422	16.0	14.6	
62 Methyl methacrylate	41	12.054	12.051	0.003	90	2676112	16.0	16.4	
63 Methylcyclohexane	83	12.507	12.497	0.010	91	2799539	16.0	15.1	
64 4-Methyl-2-pentanone (MIBK)	43	12.917	12.925	-0.008	98	4668130	16.0	15.8	
65 cis-1,3-Dichloropropene	75	12.992	12.980	0.012	97	2849866	16.0	16.6	
66 trans-1,3-Dichloropropene	75	13.704	13.697	0.007	98	2631508	16.0	17.2	
67 Toluene	91	13.828	13.819	0.009	93	5814993	16.0	14.5	
68 1,1,2-Trichloroethane	83	13.909	13.902	0.007	97	1783753	16.0	14.5	
69 2-Hexanone	58	14.287	14.296	-0.009	90	2088650	16.0	15.7	
70 n-Octane	85	14.524	14.514	0.010	97	1688186	16.0	14.6	
71 Chlorodibromomethane	129	14.626	14.617	0.009	98	3508953	16.0	17.1	
72 Ethylene Dibromide	107	14.923	14.916	0.007	98	3203100	16.0	15.3	
73 Tetrachloroethene	129	14.993	14.985	0.008	96	2035559	16.0	13.7	
74 Chlorobenzene	112	15.877	15.873	0.004	90	3804942	16.0	12.8	
75 2,3-Dimethylheptane	43	15.888	15.880	0.008	97	5773270	16.0	12.6	
76 Ethylbenzene	91	16.169	16.160	0.009	99	7459049	16.0	14.5	
77 m-Xylene & p-Xylene	91	16.330	16.322	0.008	98	10680809	32.0	26.3	
78 n-Nonane	57	16.740	16.735	0.005	96	3856145	16.0	14.5	
79 Bromoform	173	16.789	16.782	0.007	98	4066934	16.0	19.1	
80 Styrene	104	16.799	16.794	0.005	100	3953399	16.0	14.8	
81 o-Xylene	91	16.859	16.852	0.007	98	6127523	16.0	14.4	
82 1,1,2,2-Tetrachloroethane	83	17.188	17.183	0.005	98	4418864	16.0	14.7	
83 1,2,3-Trichloropropane	110	17.350	17.344	0.006	99	1140066	16.0	15.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Isopropylbenzene	105	17.447	17.441	0.006	97	7892791	16.0	14.2	
85 N-Propylbenzene	120	17.986	17.978	0.008	99	2277057	16.0	14.6	
86 2-Chlorotoluene	126	18.029	18.026	0.003	98	2039854	16.0	14.3	
88 4-Ethyltoluene	105	18.131	18.127	0.004	98	8053182	16.0	14.0	
87 1,3,5-Trimethylbenzene	120	18.207	18.199	0.008	92	3234976	16.0	13.9	
89 Alpha Methyl Styrene	118	18.433	18.430	0.003	89	3642040	16.0	16.1	
90 n-Decane	57	18.482	18.478	0.004	88	4671123	16.0	13.2	
91 tert-Butylbenzene	119	18.628	18.623	0.005	95	6398984	16.0	12.7	
92 1,2,4-Trimethylbenzene	105	18.644	18.636	0.008	96	6244196	16.0	12.7	
93 sec-Butylbenzene	105	18.892	18.888	0.004	98	8862459	16.0	12.6	
94 1,3-Dichlorobenzene	146	18.913	18.909	0.004	98	4268948	16.0	13.1	
95 Benzyl chloride	91	18.989	18.984	0.005	97	5744665	16.0	16.7	
96 1,4-Dichlorobenzene	146	19.005	18.996	0.009	93	4181739	16.0	13.2	
97 4-Isopropyltoluene	119	19.054	19.049	0.005	96	7812229	16.0	13.4	
98 1,2,3-Trimethylbenzene	105	19.107	19.103	0.004	99	7049976	16.0	13.9	
99 Butylcyclohexane	83	19.161	19.153	0.008	89	5051467	16.0	12.6	
100 2,3-Dihydroindene	117	19.355	19.351	0.004	94	5731558	16.0	12.4	
101 1,2-Dichlorobenzene	146	19.361	19.353	0.008	96	3960284	16.0	12.2	
103 n-Butylbenzene	91	19.480	19.480	0.000	95	7108706	16.0	12.2	
102 Indene	116	19.485	19.481	0.004	90	4964762	16.0	13.1	
104 Undecane	57	19.781	19.779	0.002	94	5226444	16.0	12.7	
105 1,2-Dibromo-3-Chloropropane	157	19.954	19.955	-0.001	98	2898872	16.0	18.0	
106 1,2,4,5-Tetramethylbenzene	119	20.234	20.230	0.004	97	7796181	16.0	13.6	
107 Dodecane	57	20.838	20.854	-0.016	93	5539484	16.0	13.0	
108 1,2,4-Trichlorobenzene	180	21.059	21.058	0.001	93	4697591	16.0	15.2	
109 Naphthalene	128	21.205	21.205	0.000	99	9134899	16.0	15.7	
110 Hexachlorobutadiene	225	21.415	21.415	0.000	93	4869399	16.0	14.0	
111 1,2,3-Trichlorobenzene	180	21.491	21.489	0.002	95	4441323	16.0	14.4	
112 2-Methylnaphthalene	142	22.106	22.104	0.002	99	3020354	16.0	18.1	
113 1-Methylnaphthalene	142	22.230	22.231	-0.001	99	2924598	16.0	16.1	
A 116 C8 Range	1	14.526	(14.470-14.567)		0	17655078	16.0	15.0	
S 117 Xylenes, Total	100				0		48.0	40.7	
S 118 1,2-Dichloroethene, Total	1				0		32.0	30.5	

QC Flag Legend

Processing Flags

Reagents:

40L10DQP_00025	Amount Added: 200.00	Units: mL	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

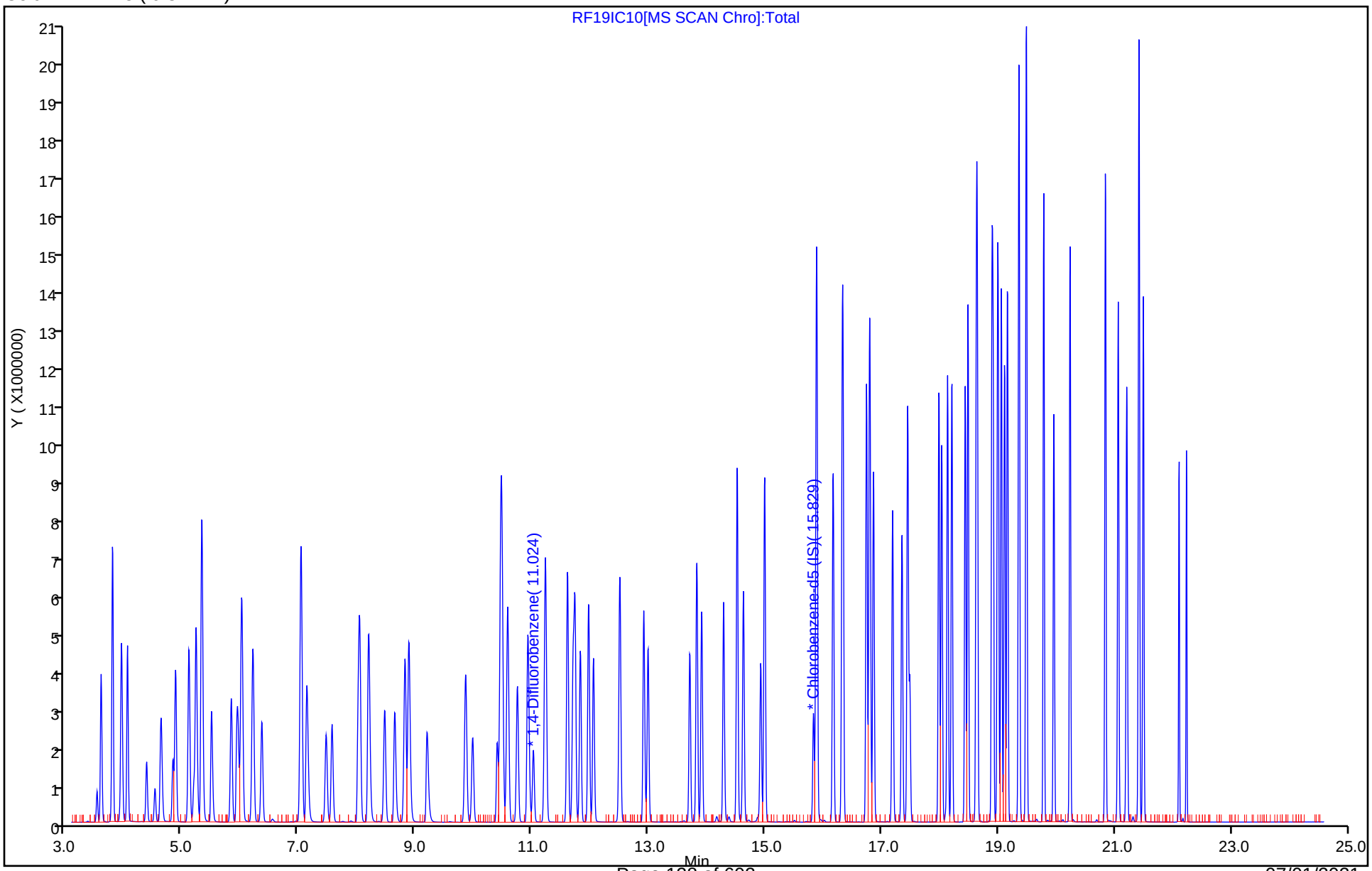
Report Date: 21-Jun-2021 11:40:20 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC10.D

Injection Date:	19-Jun-2021 09:57:30	Instrument ID:	MR	Operator ID:	HMT
Lims ID:	IC L10			Worklist Smp#:	4
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

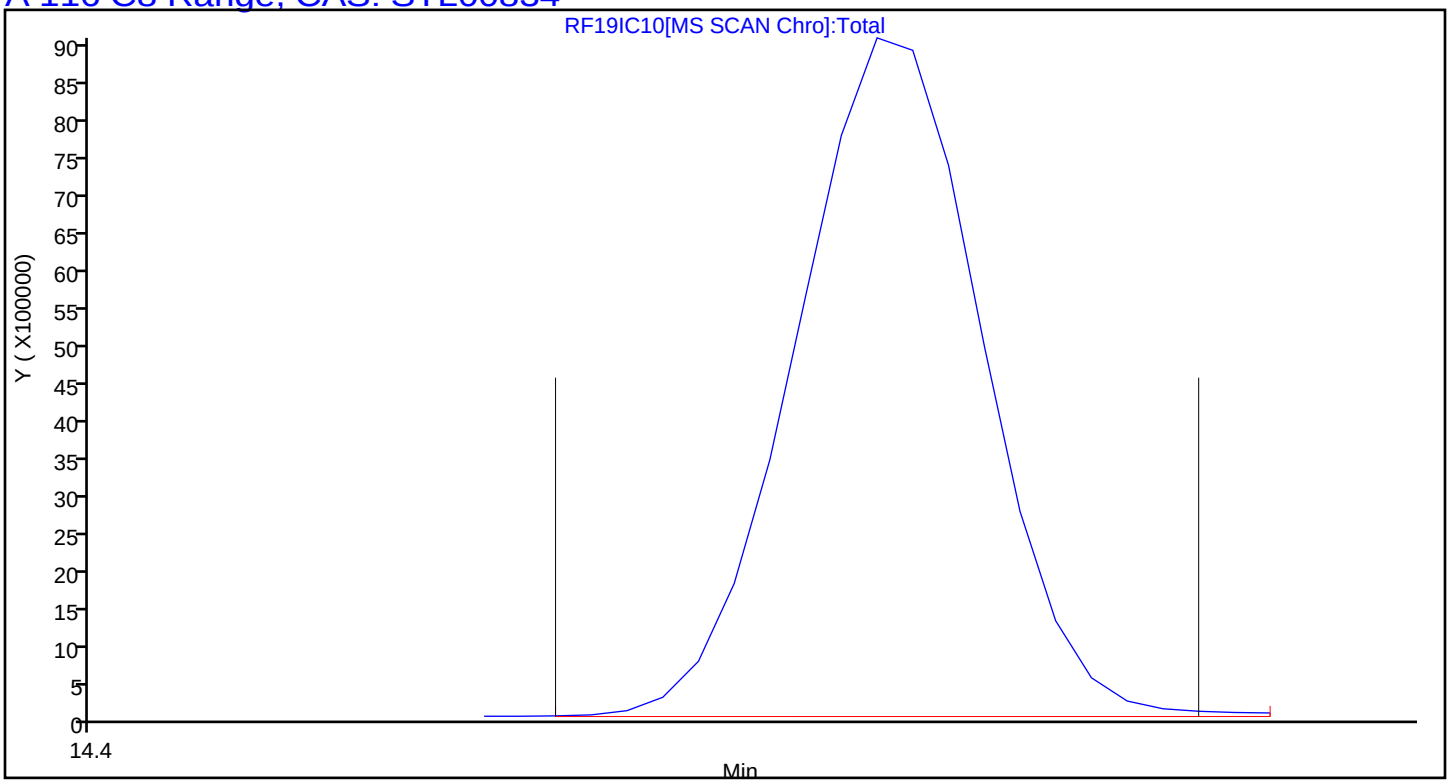


Report Date: 21-Jun-2021 11:40:20 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC10.D				
Injection Date:	19-Jun-2021 09:57:30	Instrument ID:	MR		
Lims ID:	IC L10				
Client ID:					
Operator ID:	HMT	ALS Bottle#:	8	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 116 C8 Range, CAS: STL00834



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC09.D
Lims ID: IC L9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 19-Jun-2021 11:26:30 ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019646-006
Misc. Info.: 387535
Operator ID: HMT Instrument ID: MR
Sublist: chrom-MR_TO15*sub16

Method: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\MR_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Jun-2021 11:40:24 Calib Date: 19-Jun-2021 18:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1626

First Level Reviewer: tajh Date: 21-Jun-2021 10:56:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.803	8.792	0.011	97	370463	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.019	11.009	0.010	95	1816619	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	15.829	15.825	0.004	87	1754996	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.479	17.475	0.004	95	1307201	4.64	4.77	
6 Chlorodifluoromethane	51	3.534	3.540	-0.006	97	111535	8.00	0.6283	
7 Propene	41	3.551	3.552	-0.002	49	146	8.00	0.001493	
8 Dichlorodifluoromethane	85	3.599	3.605	-0.006	100	981209	8.00	3.63	
9 Chloromethane	52	3.777	3.787	-0.010	97	68784	8.00	2.51	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.799	3.795	0.004	92	1308464	8.00	7.86	
11 Acetaldehyde	44	3.944	3.945	-0.001	99	1302632	40.0	41.2	
12 Vinyl chloride	62	3.955	3.961	-0.006	99	625993	8.00	7.68	
13 Butane	43	4.052	4.050	0.002	84	990376	8.00	7.59	
14 Butadiene	54	4.052	4.050	0.002	68	505626	8.00	7.71	
15 Bromomethane	94	4.376	4.376	0.000	99	572428	8.00	7.71	
16 Chloroethane	64	4.521	4.520	0.001	93	255529	8.00	7.67	
17 Ethanol	31	4.618	4.610	0.008	97	1560428	40.0	38.4	
18 Vinyl bromide	106	4.828	4.824	0.004	99	674834	8.00	8.06	
19 2-Methylbutane	43	4.872	4.872	0.000	95	1042353	8.00	7.84	
20 Trichlorofluoromethane	101	5.104	5.099	0.005	99	2106422	8.00	8.08	
21 Acrolein	56	5.114	5.114	0.000	94	272403	8.00	8.12	
22 Acetonitrile	40	5.190	5.182	0.008	99	391139	8.00	8.17	
23 Acetone	58	5.228	5.233	-0.005	98	1169030	24.0	24.8	
24 Isopropyl alcohol	45	5.314	5.315	-0.001	98	3666948	24.0	24.3	
25 Pentane	72	5.330	5.322	0.008	95	104892	8.00	7.90	
26 Ethyl ether	31	5.497	5.507	-0.010	93	1027265	8.00	8.44	
27 1,1-Dichloroethene	96	5.831	5.825	0.006	94	781427	8.00	7.98	
28 2-Methyl-2-propanol	59	5.923	5.940	-0.017	97	1529061	8.00	8.41	
29 Acrylonitrile	53	5.945	5.939	0.006	94	644119	8.00	8.24	
30 112TCTFE	101	6.009	6.005	0.004	97	1679191	8.00	7.84	
31 Methylene Chloride	84	6.193	6.188	0.005	97	684697	8.00	7.91	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.209	6.203	0.006	94	768928	8.00	8.24	
33 Carbon disulfide	76	6.355	6.351	0.004	99	2270984	8.00	8.51	
34 trans-1,2-Dichloroethene	96	7.023	7.015	0.008	94	759092	8.00	7.85	
35 2-Methylpentane	43	7.034	7.026	0.008	96	2188090	8.00	8.14	
36 Methyl tert-butyl ether	73	7.131	7.159	-0.028	97	2178736	8.00	8.33	
37 1,1-Dichloroethane	63	7.460	7.449	0.011	100	1549237	8.00	8.06	
38 Vinyl acetate	43	7.557	7.554	0.003	100	2560768	8.00	8.90	
39 2-Butanone (MEK)	72	8.010	8.024	-0.014	97	390748	8.00	7.57	
40 Hexane	56	8.037	8.029	0.008	88	682338	8.00	8.09	
41 Isopropyl ether	45	8.193	8.211	-0.018	97	3226306	8.00	8.30	
42 cis-1,2-Dichloroethene	96	8.463	8.452	0.011	97	836137	8.00	7.99	
43 Ethyl acetate	43	8.641	8.646	-0.005	98	2199405	8.00	8.36	
44 Chloroform	83	8.813	8.801	0.012	97	1703773	8.00	8.04	
45 Tert-butyl ethyl ether	59	8.884	8.902	-0.018	97	2779951	8.00	8.55	
46 Tetrahydrofuran	42	9.196	9.228	-0.032	94	1106208	8.00	8.31	
47 1,1,1-Trichloroethane	97	9.854	9.847	0.007	97	1764045	8.00	8.37	
48 1,2-Dichloroethane	62	9.973	9.964	0.009	97	1256689	8.00	8.02	
49 n-Butanol	31	10.399	10.421	-0.022	92	415860	8.00	8.63	
50 Cyclohexane	69	10.458	10.450	0.008	92	382516	8.00	7.86	
51 Benzene	78	10.464	10.455	0.009	97	2299899	8.00	7.46	
52 Carbon tetrachloride	117	10.485	10.475	0.010	97	1835820	8.00	9.17	
53 2,3-Dimethylpentane	71	10.577	10.571	0.006	92	555328	8.00	7.99	
54 Thiophene	84	10.744	10.735	0.009	97	1357806	8.00	7.97	
55 Isooctane	57	11.224	11.217	0.007	97	4360014	8.00	7.90	
56 n-Heptane	71	11.607	11.598	0.009	95	863904	8.00	8.13	
57 1,2-Dichloropropane	63	11.698	11.691	0.007	91	1035713	8.00	7.82	
58 Trichloroethene	130	11.736	11.725	0.011	94	1046653	8.00	7.50	
59 Dibromomethane	93	11.822	11.814	0.008	94	1040537	8.00	7.96	
61 1,4-Dioxane	88	11.968	11.990	-0.022	40	379153	8.00	8.09	
60 Dichlorobromomethane	83	11.968	11.959	0.009	99	1786203	8.00	8.70	
62 Methyl methacrylate	41	12.049	12.051	-0.002	90	1417962	8.00	8.47	
63 Methylcyclohexane	83	12.502	12.497	0.005	92	1510299	8.00	7.98	
64 4-Methyl-2-pentanone (MIBK)	43	12.912	12.925	-0.013	98	2440598	8.00	8.10	
65 cis-1,3-Dichloropropene	75	12.987	12.980	0.007	97	1499486	8.00	8.56	
66 trans-1,3-Dichloropropene	75	13.704	13.697	0.007	99	1383831	8.00	8.96	
67 Toluene	91	13.823	13.819	0.004	93	3148691	8.00	7.79	
68 1,1,2-Trichloroethane	83	13.909	13.902	0.007	97	957763	8.00	7.72	
69 2-Hexanone	58	14.287	14.296	-0.009	90	1109956	8.00	8.30	
70 n-Octane	85	14.519	14.514	0.005	97	929285	8.00	8.00	
71 Chlorodibromomethane	129	14.621	14.617	0.004	98	1882794	8.00	9.11	
72 Ethylene Dibromide	107	14.923	14.916	0.007	98	1718771	8.00	8.14	
73 Tetrachloroethene	129	14.988	14.985	0.003	96	1092404	8.00	7.31	
74 Chlorobenzene	112	15.877	15.873	0.004	91	2139563	8.00	7.15	
75 2,3-Dimethylheptane	43	15.883	15.880	0.003	95	3385494	8.00	7.33	
76 Ethylbenzene	91	16.163	16.160	0.003	98	4052164	8.00	7.82	
77 m-Xylene & p-Xylene	91	16.325	16.322	0.003	98	6081643	16.0	14.9	
78 n-Nonane	57	16.735	16.735	0.000	96	2176437	8.00	8.14	
79 Bromoform	173	16.783	16.782	0.001	98	2208558	8.00	10.3	
80 Styrene	104	16.794	16.794	0.000	100	2223508	8.00	8.25	
81 o-Xylene	91	16.853	16.852	0.001	98	3340639	8.00	7.77	
82 1,1,2,2-Tetrachloroethane	83	17.182	17.183	-0.001	98	2387326	8.00	7.89	
83 1,2,3-Trichloropropane	110	17.344	17.344	0.000	98	608070	8.00	7.95	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Isopropylbenzene	105	17.441	17.441	0.000	96	4334816	8.00	7.74	
85 N-Propylbenzene	120	17.980	17.978	0.002	99	1250795	8.00	7.95	
86 2-Chlorotoluene	126	18.029	18.026	0.003	98	1110481	8.00	7.73	
88 4-Ethyltoluene	105	18.131	18.127	0.004	98	4476310	8.00	7.73	
87 1,3,5-Trimethylbenzene	120	18.202	18.199	0.003	92	1787465	8.00	7.61	
89 Alpha Methyl Styrene	118	18.433	18.430	0.003	89	1963607	8.00	8.60	
90 n-Decane	57	18.477	18.478	-0.001	87	2732871	8.00	7.66	
91 tert-Butylbenzene	119	18.622	18.623	-0.001	90	3728387	8.00	7.34	
92 1,2,4-Trimethylbenzene	105	18.638	18.636	0.002	97	3641435	8.00	7.37	
93 sec-Butylbenzene	105	18.892	18.888	0.004	98	5208220	8.00	7.33	
94 1,3-Dichlorobenzene	146	18.913	18.909	0.004	97	2434716	8.00	7.43	
95 Benzyl chloride	91	18.983	18.984	-0.001	98	3104445	8.00	8.96	
96 1,4-Dichlorobenzene	146	19.000	18.996	0.004	93	2397517	8.00	7.50	
97 4-Isopropyltoluene	119	19.048	19.049	-0.001	97	4493338	8.00	7.64	
98 1,2,3-Trimethylbenzene	105	19.107	19.103	0.004	99	3980698	8.00	7.80	
99 Butylcyclohexane	83	19.156	19.153	0.003	90	2952030	8.00	7.32	
100 2,3-Dihydroindene	117	19.356	19.351	0.005	93	3409376	8.00	7.30	
101 1,2-Dichlorobenzene	146	19.356	19.353	0.003	96	2319265	8.00	7.10	
103 n-Butylbenzene	91	19.480	19.480	0.000	95	4256139	8.00	7.25	
102 Indene	116	19.485	19.481	0.004	79	2901337	8.00	7.61	
104 Undecane	57	19.782	19.779	0.003	95	3119039	8.00	7.51	
105 1,2-Dibromo-3-Chloropropane	157	19.954	19.955	-0.001	99	1528129	8.00	9.41	
106 1,2,4,5-Tetramethylbenzene	119	20.229	20.230	-0.001	96	4435106	8.00	7.68	
107 Dodecane	57	20.838	20.854	-0.016	93	3247083	8.00	7.58	
108 1,2,4-Trichlorobenzene	180	21.060	21.058	0.002	94	2495454	8.00	8.04	
109 Naphthalene	128	21.205	21.205	0.000	99	5020108	8.00	8.54	
110 Hexachlorobutadiene	225	21.415	21.415	0.000	93	2710553	8.00	7.73	
111 1,2,3-Trichlorobenzene	180	21.491	21.489	0.002	95	2362391	8.00	7.62	
112 2-Methylnaphthalene	142	22.100	22.104	-0.004	99	1470097	8.00	8.74	
113 1-Methylnaphthalene	142	22.230	22.231	-0.001	99	1425275	8.00	7.78	
A 116 C8 Range	1	14.519	(14.470-14.567)		0	9512635	8.00	7.89	
S 117 Xylenes, Total	100				0		24.0	22.6	
S 118 1,2-Dichloroethene, Total	1				0		16.0	15.8	

QC Flag Legend

Processing Flags

Reagents:

40L9DQP_00025	Amount Added: 200.00	Units: mL	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

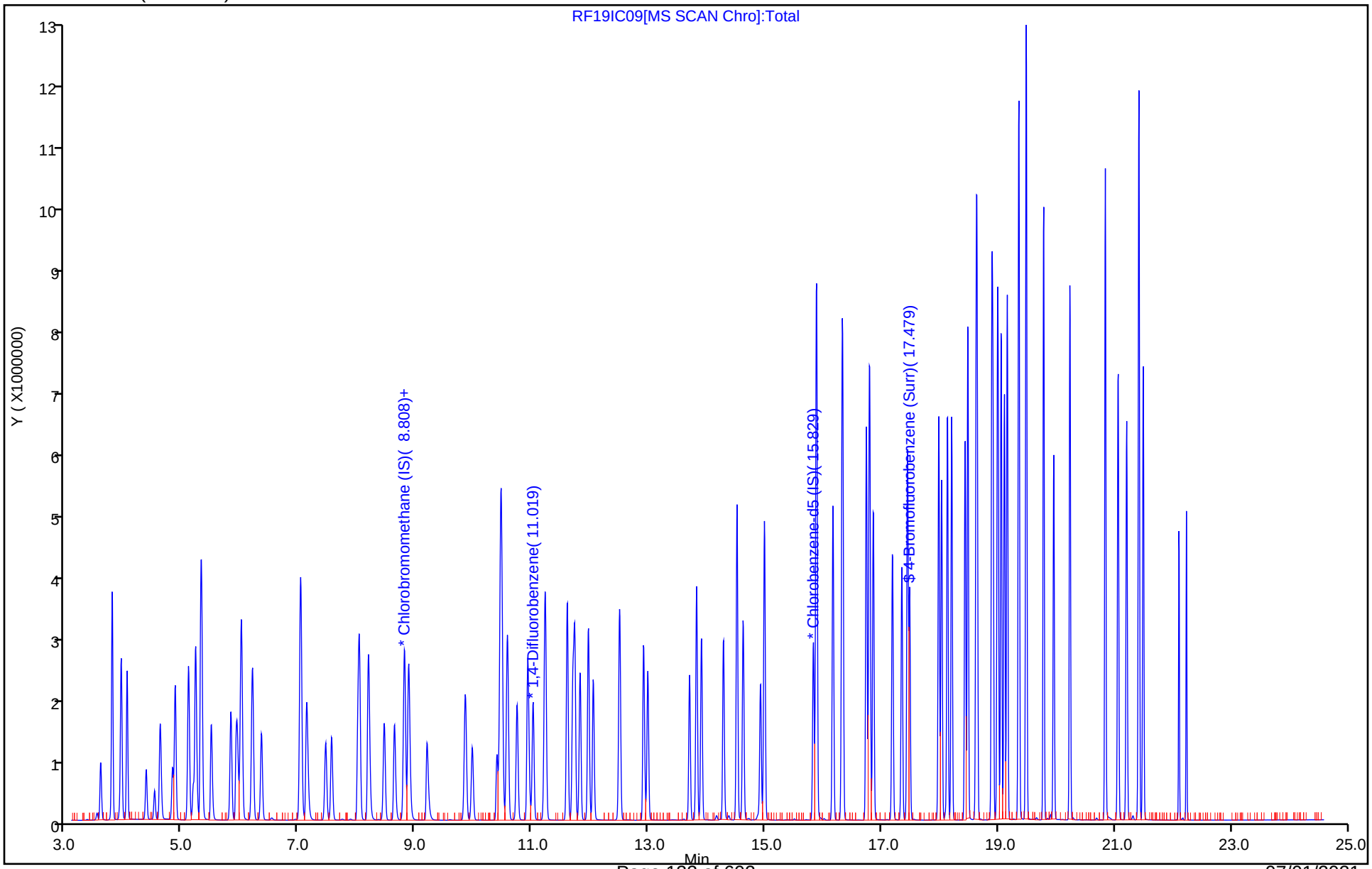
Report Date: 21-Jun-2021 11:40:24 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC09.D

Injection Date:	19-Jun-2021 11:26:30	Instrument ID:	MR	Operator ID:	HMT
Lims ID:	IC L9			Worklist Smp#:	6
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

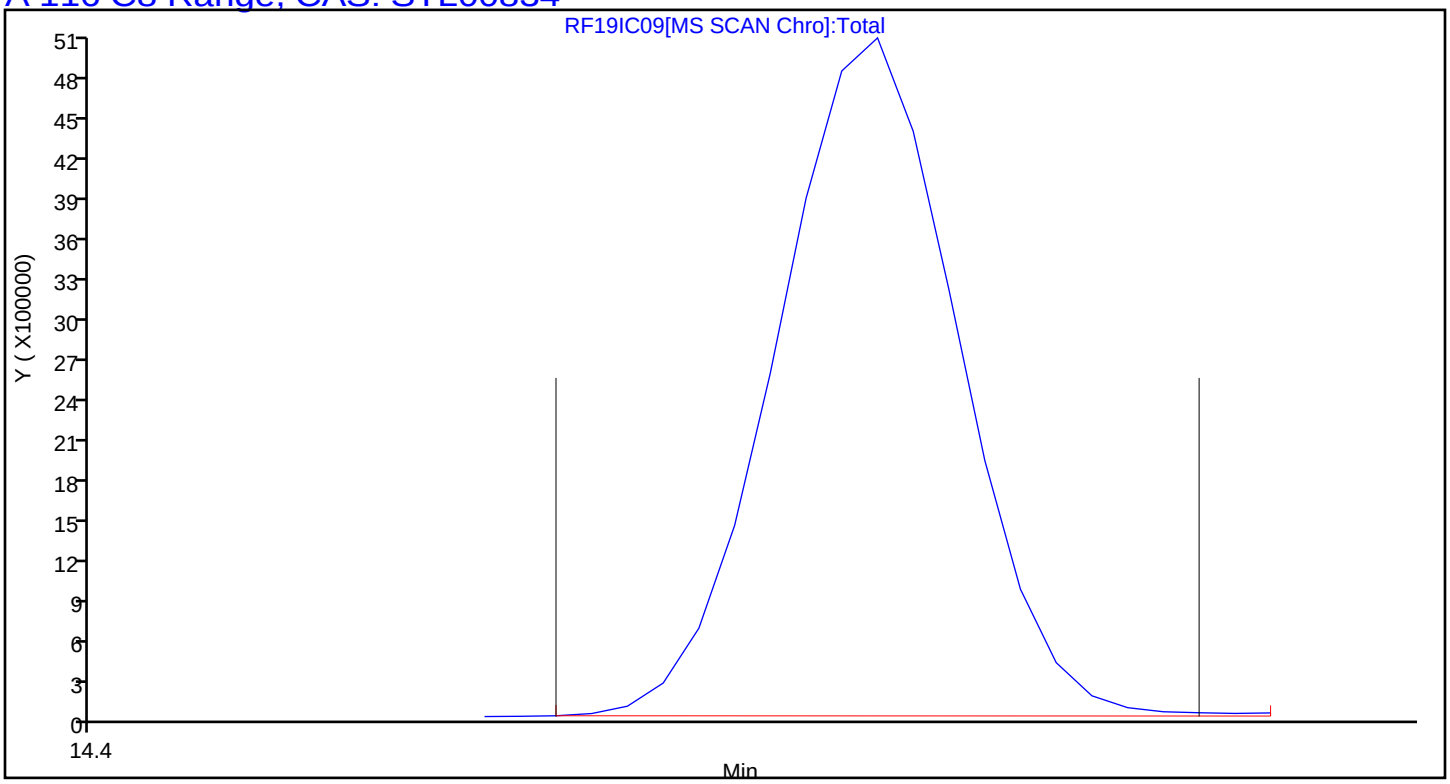


Report Date: 21-Jun-2021 11:40:24 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC09.D				
Injection Date:	19-Jun-2021 11:26:30	Instrument ID:	MR		
Lims ID:	IC L9				
Client ID:					
Operator ID:	HMT	ALS Bottle#:	7	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 116 C8 Range, CAS: STL00834



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC08.D
Lims ID: IC L8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 19-Jun-2021 12:55:30 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019646-008
Misc. Info.: 387536
Operator ID: HMT Instrument ID: MR
Sublist: chrom-MR_TO15*sub16

Method: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\MR_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Jun-2021 11:40:28 Calib Date: 19-Jun-2021 18:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1626

First Level Reviewer: khachitpongpanits Date: 21-Jun-2021 16:22:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.792	8.792	0.000	97	363415	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.008	11.009	-0.001	95	1780397	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	15.824	15.825	-0.001	88	1696122	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.474	17.475	-0.001	95	1262780	4.64	4.76	
6 Chlorodifluoromethane	51	3.545	3.540	0.005	97	664436	4.00	3.82	
7 Propene	41	3.556	3.552	0.004	99	363917	4.00	3.79	
8 Dichlorodifluoromethane	85	3.604	3.605	-0.001	100	1034120	4.00	3.90	
9 Chloromethane	52	3.788	3.787	0.001	58	91792	4.00	3.41	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.793	3.795	-0.002	94	608766	4.00	3.73	
11 Acetaldehyde	44	3.944	3.945	-0.001	99	635339	20.0	19.6	
12 Vinyl chloride	62	3.960	3.961	-0.001	99	305688	4.00	3.82	
13 Butane	43	4.047	4.050	-0.003	84	491818	4.00	3.84	
14 Butadiene	54	4.052	4.050	0.002	68	249940	4.00	3.88	
15 Bromomethane	94	4.376	4.376	0.000	98	277412	4.00	3.81	
16 Chloroethane	64	4.516	4.520	-0.004	86	122319	4.00	3.74	
17 Ethanol	31	4.602	4.610	-0.008	97	772804	20.0	19.4	
18 Vinyl bromide	106	4.823	4.824	-0.001	98	322641	4.00	3.93	
19 2-Methylbutane	43	4.872	4.872	0.000	94	509950	4.00	3.91	
20 Trichlorofluoromethane	101	5.098	5.099	-0.001	99	1036080	4.00	4.05	
21 Acrolein	56	5.109	5.114	-0.005	93	129423	4.00	3.93	
22 Acetonitrile	40	5.174	5.182	-0.008	99	188664	4.00	4.02	
23 Acetone	58	5.217	5.233	-0.016	98	587384	12.0	12.0	
24 Isopropyl alcohol	45	5.298	5.315	-0.017	96	1841462	12.0	12.4	
25 Pentane	72	5.319	5.322	-0.003	95	53696	4.00	4.12	
26 Ethyl ether	31	5.486	5.507	-0.021	93	502114	4.00	4.21	
27 1,1-Dichloroethene	96	5.826	5.825	0.001	94	383639	4.00	3.99	
28 2-Methyl-2-propanol	59	5.907	5.940	-0.033	97	765047	4.00	4.29	
29 Acrylonitrile	53	5.934	5.939	-0.005	95	317185	4.00	4.14	
30 112TCTFE	101	6.004	6.005	-0.001	97	835323	4.00	3.97	
31 Methylene Chloride	84	6.187	6.188	-0.001	97	343657	4.00	4.05	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.204	6.203	0.001	94	377029	4.00	4.12	
33 Carbon disulfide	76	6.349	6.351	-0.002	99	1103478	4.00	4.22	
34 trans-1,2-Dichloroethene	96	7.012	7.015	-0.003	95	378794	4.00	3.99	
35 2-Methylpentane	43	7.023	7.026	-0.003	96	1088867	4.00	4.13	
36 Methyl tert-butyl ether	73	7.126	7.159	-0.033	96	1069849	4.00	4.17	
37 1,1-Dichloroethane	63	7.444	7.449	-0.005	100	759863	4.00	4.03	
38 Vinyl acetate	43	7.546	7.554	-0.008	100	1206627	4.00	4.28	
39 2-Butanone (MEK)	72	7.999	8.024	-0.025	97	192177	4.00	3.80	
40 Hexane	56	8.026	8.029	-0.003	91	335387	4.00	4.05	
41 Isopropyl ether	45	8.183	8.211	-0.029	97	1582043	4.00	4.15	
42 cis-1,2-Dichloroethene	96	8.452	8.452	0.000	97	405936	4.00	3.95	
43 Ethyl acetate	43	8.625	8.646	-0.021	99	1062432	4.00	4.12	
44 Chloroform	83	8.803	8.801	0.002	98	840281	4.00	4.04	
45 Tert-butyl ethyl ether	59	8.873	8.902	-0.029	97	1371921	4.00	4.30	
46 Tetrahydrofuran	42	9.191	9.228	-0.037	94	529376	4.00	4.06	
47 1,1,1-Trichloroethane	97	9.843	9.847	-0.004	97	861084	4.00	4.16	
48 1,2-Dichloroethane	62	9.962	9.964	-0.002	97	613424	4.00	3.99	
49 n-Butanol	31	10.388	10.421	-0.033	92	197982	4.00	4.19	
50 Cyclohexane	69	10.447	10.450	-0.003	85	193945	4.00	4.07	
51 Benzene	78	10.453	10.455	-0.002	97	1180099	4.00	3.91	
52 Carbon tetrachloride	117	10.474	10.475	-0.001	97	828973	4.00	4.22	
53 2,3-Dimethylpentane	71	10.566	10.571	-0.005	92	281757	4.00	4.14	
54 Thiophene	84	10.733	10.735	-0.002	97	680891	4.00	4.08	
55 Isooctane	57	11.218	11.217	0.001	97	2182846	4.00	4.04	
56 n-Heptane	71	11.596	11.598	-0.002	94	430045	4.00	4.13	
57 1,2-Dichloropropane	63	11.693	11.691	0.002	92	515853	4.00	3.97	
58 Trichloroethene	130	11.725	11.725	0.000	94	523969	4.00	3.83	
59 Dibromomethane	93	11.817	11.814	0.003	94	510830	4.00	3.99	
60 Dichlorobromomethane	83	11.957	11.959	-0.002	99	868586	4.00	4.32	
61 1,4-Dioxane	88	11.963	11.990	-0.027	92	191040	4.00	4.16	
62 Methyl methacrylate	41	12.043	12.051	-0.008	90	675548	4.00	4.12	
63 Methylcyclohexane	83	12.496	12.497	-0.001	93	751242	4.00	4.05	
64 4-Methyl-2-pentanone (MIBK)	43	12.906	12.925	-0.019	98	1208650	4.00	4.09	
65 cis-1,3-Dichloropropene	75	12.982	12.980	0.002	96	733669	4.00	4.27	
66 trans-1,3-Dichloropropene	75	13.699	13.697	0.002	99	662938	4.00	4.44	
67 Toluene	91	13.818	13.819	-0.001	93	1563468	4.00	4.00	
68 1,1,2-Trichloroethane	83	13.904	13.902	0.002	97	480566	4.00	4.01	
69 2-Hexanone	58	14.281	14.296	-0.015	90	542892	4.00	4.20	
70 n-Octane	85	14.513	14.514	-0.001	96	467387	4.00	4.16	
71 Chlorodibromomethane	129	14.616	14.617	-0.001	98	903772	4.00	4.53	
72 Ethylene Dibromide	107	14.918	14.916	0.002	98	843840	4.00	4.14	
73 Tetrachloroethene	129	14.982	14.985	-0.003	96	553094	4.00	3.83	
74 Chlorobenzene	112	15.872	15.873	-0.001	91	1094447	4.00	3.78	
75 2,3-Dimethylheptane	43	15.883	15.880	0.003	95	1735021	4.00	3.89	
76 Ethylbenzene	91	16.158	16.160	-0.002	99	2037261	4.00	4.07	
77 m-Xylene & p-Xylene	91	16.325	16.322	0.003	98	3147719	8.00	7.96	
78 n-Nonane	57	16.735	16.735	0.000	96	1103175	4.00	4.27	
79 Bromoform	173	16.783	16.782	0.001	98	1014160	4.00	4.88	
80 Styrene	104	16.794	16.794	0.000	100	1134945	4.00	4.36	
81 o-Xylene	91	16.853	16.852	0.001	98	1679867	4.00	4.04	
82 1,1,2,2-Tetrachloroethane	83	17.182	17.183	-0.001	98	1204315	4.00	4.12	
83 1,2,3-Trichloropropane	110	17.344	17.344	0.000	98	304703	4.00	4.12	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Isopropylbenzene	105	17.441	17.441	0.000	96	2210967	4.00	4.08	
85 N-Propylbenzene	120	17.980	17.978	0.002	99	629139	4.00	4.14	
86 2-Chlorotoluene	126	18.029	18.026	0.003	98	556848	4.00	4.01	
88 4-Ethyltoluene	105	18.126	18.127	-0.001	98	2269393	4.00	4.05	
87 1,3,5-Trimethylbenzene	120	18.202	18.199	0.003	92	911093	4.00	4.02	
89 Alpha Methyl Styrene	118	18.428	18.430	-0.002	89	973222	4.00	4.41	
90 n-Decane	57	18.477	18.478	-0.001	87	1439473	4.00	4.17	
91 tert-Butylbenzene	119	18.622	18.623	-0.001	90	1967987	4.00	4.01	
92 1,2,4-Trimethylbenzene	105	18.638	18.636	0.002	96	1915422	4.00	4.01	
93 sec-Butylbenzene	105	18.886	18.888	-0.002	99	2751413	4.00	4.01	
94 1,3-Dichlorobenzene	146	18.908	18.909	-0.001	98	1231755	4.00	3.89	
95 Benzyl chloride	91	18.983	18.984	-0.001	97	1526879	4.00	4.56	
96 1,4-Dichlorobenzene	146	18.994	18.996	-0.002	93	1206251	4.00	3.91	
97 4-Isopropyltoluene	119	19.048	19.049	-0.001	97	2317118	4.00	4.08	
98 1,2,3-Trimethylbenzene	105	19.102	19.103	-0.001	99	2011560	4.00	4.08	
99 Butylcyclohexane	83	19.156	19.153	0.003	91	1552629	4.00	3.98	
100 2,3-Dihydroindene	117	19.350	19.351	-0.001	94	1802840	4.00	3.99	
101 1,2-Dichlorobenzene	146	19.356	19.353	0.003	96	1208932	4.00	3.83	
103 n-Butylbenzene	91	19.480	19.480	0.000	95	2296288	4.00	4.05	
102 Indene	116	19.480	19.481	-0.001	78	1536049	4.00	4.17	
104 Undecane	57	19.782	19.779	0.003	96	1654198	4.00	4.12	
105 1,2-Dibromo-3-Chloropropane	157	19.954	19.955	-0.001	99	727534	4.00	4.64	
106 1,2,4,5-Tetramethylbenzene	119	20.229	20.230	-0.001	96	2262058	4.00	4.05	
107 Dodecane	57	20.838	20.854	-0.016	94	1663722	4.00	4.02	
108 1,2,4-Trichlorobenzene	180	21.059	21.058	0.001	94	1165715	4.00	3.88	
109 Naphthalene	128	21.205	21.205	0.000	99	2368118	4.00	4.16	
110 Hexachlorobutadiene	225	21.415	21.415	0.000	94	1297964	4.00	3.83	
111 1,2,3-Trichlorobenzene	180	21.491	21.489	0.002	96	1110200	4.00	3.71	
112 2-Methylnaphthalene	142	22.100	22.104	-0.004	99	543025	4.00	3.34	
113 1-Methylnaphthalene	142	22.230	22.231	-0.001	99	570018	4.00	3.22	
A 116 C8 Range	1	14.513	(14.465-14.562)		0	4781569	4.00	4.04	
S 117 Xylenes, Total	100				0		12.0	12.0	
S 118 1,2-Dichloroethene, Total	1				0		8.00	7.95	

QC Flag Legend

Processing Flags

Reagents:

40L8DQP_00024	Amount Added: 200.00	Units: mL	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

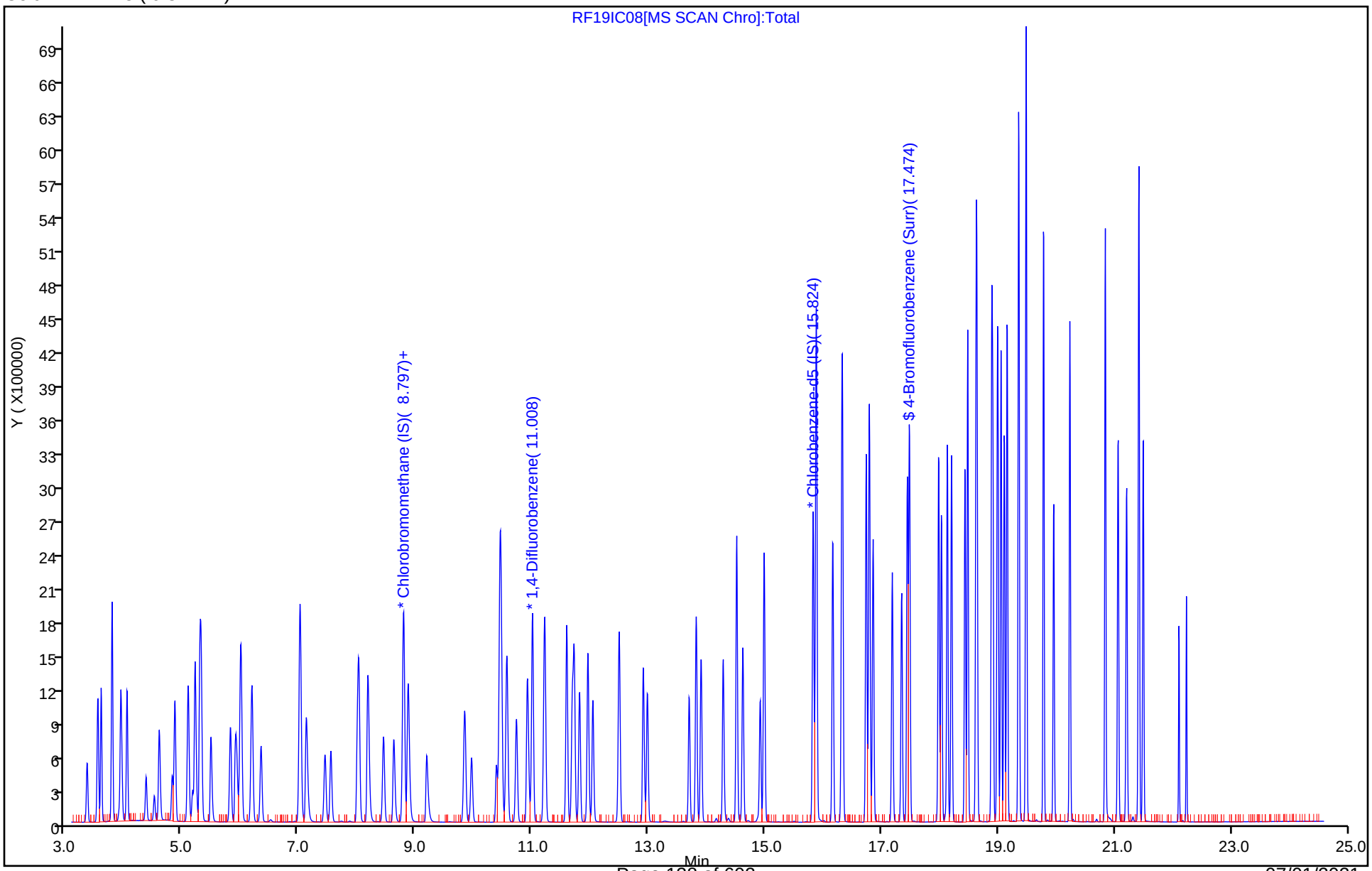
Report Date: 21-Jun-2021 11:40:29 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC08.D

Injection Date:	19-Jun-2021 12:55:30	Instrument ID:	MR	Operator ID:	HMT
Lims ID:	IC L8			Worklist Smp#:	8
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

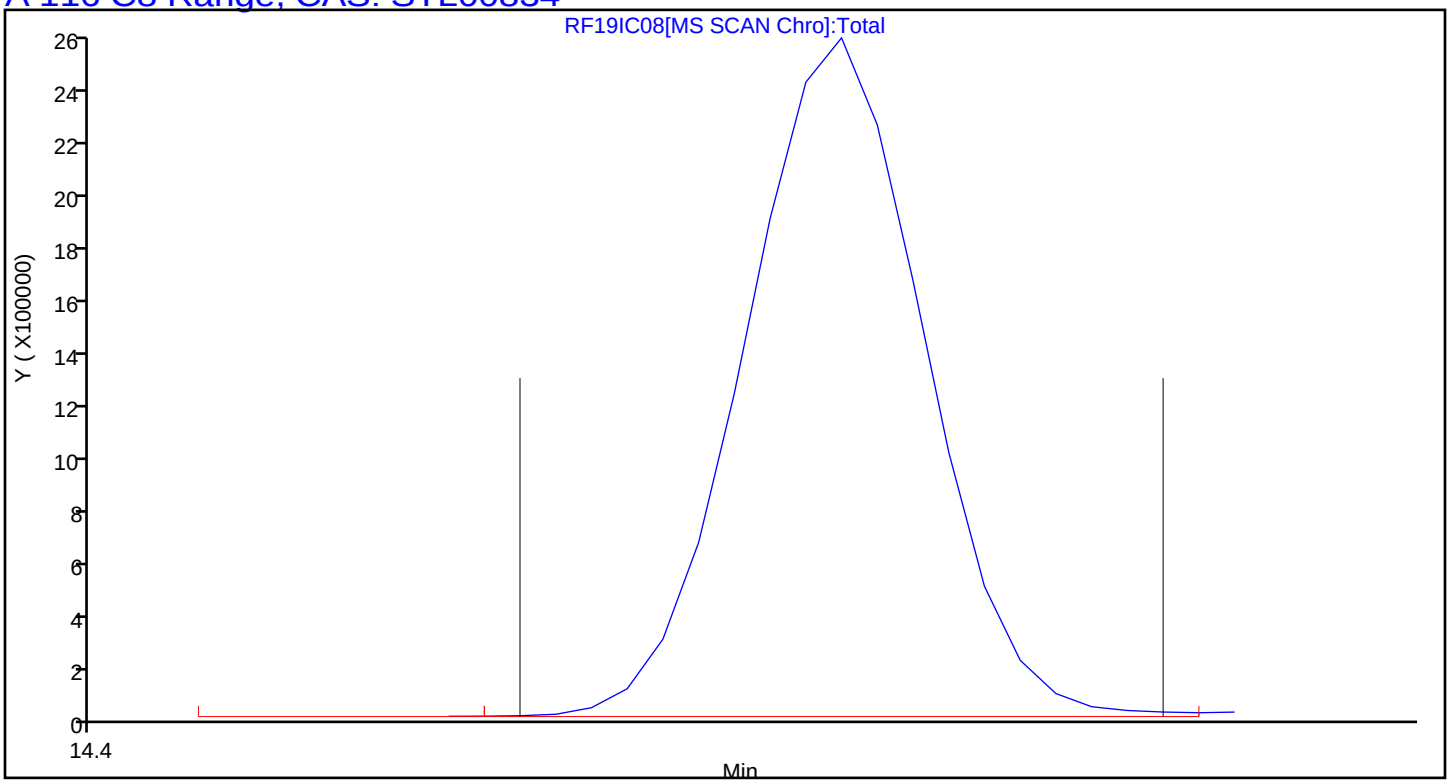


Report Date: 21-Jun-2021 11:40:29 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC08.D				
Injection Date:	19-Jun-2021 12:55:30	Instrument ID:	MR		
Lims ID:	IC L8				
Client ID:					
Operator ID:	HMT	ALS Bottle#:	6	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 116 C8 Range, CAS: STL00834



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC01.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 19-Jun-2021 14:22:30 ALS Bottle#: 1 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019646-010
Misc. Info.: 387801
Operator ID: HMT Instrument ID: MR
Sublist: chrom-MR_TO15*sub16

Method: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\MR_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Jun-2021 11:40:33 Calib Date: 19-Jun-2021 18:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1626

First Level Reviewer: khachitpongpanits Date: 21-Jun-2021 16:22:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.786	8.792	-0.006	98	355474	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.003	11.009	-0.006	95	1710051	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	15.823	15.825	-0.002	88	1590004	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.474	17.475	-0.001	94	1139516	4.64	4.59	
6 Chlorodifluoromethane	51	3.540	3.540	0.000	96	3967	0.0200	0.0233	
7 Propene	41	3.556	3.552	0.004	91	2355	0.0200	0.0251	
8 Dichlorodifluoromethane	85	3.604	3.605	-0.001	98	5248	0.0200	0.0202	
9 Chloromethane	52	3.788	3.787	0.001	71	859	0.0200	0.0326	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.788	3.795	-0.007	89	3379	0.0200	0.0212	
11 Acetaldehyde	44	3.944	3.945	-0.001	96	12299	0.1000	-1.48	
12 Vinyl chloride	62	3.960	3.961	-0.001	94	1787	0.0200	0.0228	
13 Butane	43	4.052	4.050	0.002	81	2345	0.0200	0.0187	
14 Butadiene	54	4.047	4.050	-0.003	70	1950	0.0200	0.0310	
15 Bromomethane	94	4.365	4.376	-0.011	86	2306	0.0200	0.0324	
16 Chloroethane	64	4.516	4.520	-0.004	40	1019	0.0200	0.0319	
17 Ethanol	31	4.613	4.610	0.003	98	5122	0.1000	0.1312	
18 Vinyl bromide	106	4.818	4.824	-0.006	96	1704	0.0200	0.0212	
19 2-Methylbutane	43	4.877	4.872	0.005	94	3142	0.0200	0.0246	
20 Trichlorofluoromethane	101	5.098	5.099	-0.001	98	5336	0.0200	0.0213	
21 Acrolein	56	5.114	5.114	0.000	27	1103	0.0200	0.0343	
22 Acetonitrile	40	5.184	5.182	0.002	65	806	0.0200	0.0176	
23 Acetone	58	5.254	5.233	0.021	98	9002	0.0600	-1.17	
24 Isopropyl alcohol	45	5.325	5.315	0.010	87	11866	0.0600	0.0819	
25 Pentane	72	5.314	5.322	-0.008	76	107	0.0200	0.008393	
26 Ethyl ether	31	5.529	5.507	0.022	89	2632	0.0200	0.0225	
27 1,1-Dichloroethene	96	5.815	5.825	-0.010	91	2178	0.0200	0.0232	
28 2-Methyl-2-propanol	59	5.972	5.940	0.032	93	3843	0.0200	0.0220	
29 Acrylonitrile	53	5.934	5.939	-0.005	71	2118	0.0200	0.0282	
30 112TCTFE	101	5.999	6.005	-0.006	95	4181	0.0200	0.0203	
31 Methylene Chloride	84	6.182	6.188	-0.006	96	3131	0.0200	0.0377	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.209	6.203	0.006	88	2546	0.0200	0.0284	
33 Carbon disulfide	76	6.349	6.351	-0.002	98	5082	0.0200	0.0198	
34 trans-1,2-Dichloroethene	96	7.012	7.015	-0.003	73	2012	0.0200	0.0217	
35 2-Methylpentane	43	7.018	7.026	-0.008	94	5933	0.0200	0.0230	
36 Methyl tert-butyl ether	73	7.206	7.159	0.047	96	5856	0.0200	0.0233	
37 1,1-Dichloroethane	63	7.444	7.449	-0.005	96	4421	0.0200	0.0240	
38 Vinyl acetate	43	7.557	7.554	0.003	97	5242	0.0200	0.0190	
39 2-Butanone (MEK)	72	8.058	8.024	0.034	92	1449	0.0200	0.0293	
40 Hexane	56	8.026	8.029	-0.003	68	1812	0.0200	0.0224	
41 Isopropyl ether	45	8.247	8.211	0.036	96	7720	0.0200	0.0207	
42 cis-1,2-Dichloroethene	96	8.441	8.452	-0.011	94	2391	0.0200	0.0238	
43 Ethyl acetate	43	8.668	8.646	0.022	97	6751	0.0200	0.0267	
44 Chloroform	83	8.792	8.801	-0.009	27	5095	0.0200	0.0250	
45 Tert-butyl ethyl ether	59	8.943	8.902	0.041	94	5961	0.0200	0.0191	
46 Tetrahydrofuran	42	9.272	9.228	0.044	91	3507	0.0200	0.0275	
47 1,1,1-Trichloroethane	97	9.843	9.847	-0.004	93	4052	0.0200	0.0200	
48 1,2-Dichloroethane	62	9.962	9.964	-0.002	94	3865	0.0200	0.0262	
49 n-Butanol	31	10.453	10.421	0.032	48	900	0.0200	0.0198	
50 Cyclohexane	69	10.442	10.450	-0.008	67	916	0.0200	0.0200	
51 Benzene	78	10.453	10.455	-0.002	96	8205	0.0200	0.0283	
52 Carbon tetrachloride	117	10.469	10.475	-0.006	95	3960	0.0200	0.0210	
53 2,3-Dimethylpentane	71	10.561	10.571	-0.010	90	1317	0.0200	0.0201	
54 Thiophene	84	10.728	10.735	-0.007	91	3113	0.0200	0.0194	
55 Isooctane	57	11.213	11.217	-0.004	95	10999	0.0200	0.0212	
56 n-Heptane	71	11.596	11.598	-0.002	91	1835	0.0200	0.0183	
57 1,2-Dichloropropane	63	11.688	11.691	-0.003	60	3263	0.0200	0.0262	
58 Trichloroethene	130	11.720	11.725	-0.005	90	3194	0.0200	0.0243	
59 Dibromomethane	93	11.806	11.814	-0.008	97	3301	0.0200	0.0268	
60 Dichlorobromomethane	83	11.957	11.959	-0.002	93	3824	0.0200	0.0198	
61 1,4-Dioxane	88	12.033	11.990	0.043	50	1018	0.0200	0.0231	
62 Methyl methacrylate	41	12.054	12.051	0.003	87	5163	0.0200	0.0328	
63 Methylcyclohexane	83	12.486	12.497	-0.011	88	3563	0.0200	0.0200	
64 4-Methyl-2-pentanone (MIBK)	43	12.949	12.925	0.024	96	6552	0.0200	0.0231	
65 cis-1,3-Dichloropropene	75	12.971	12.980	-0.009	74	3464	0.0200	0.0210	
66 trans-1,3-Dichloropropene	75	13.693	13.697	-0.004	82	2922	0.0200	0.0209	
67 Toluene	91	13.818	13.819	-0.001	93	10548	0.0200	0.0288	
68 1,1,2-Trichloroethane	83	13.904	13.902	0.002	91	3014	0.0200	0.0268	
69 2-Hexanone	58	14.324	14.296	0.028	90	2377	0.0200	0.0196	
70 n-Octane	85	14.508	14.514	-0.006	94	2071	0.0200	0.0197	
71 Chlorodibromomethane	129	14.616	14.617	-0.001	95	3422	0.0200	0.0183	
72 Ethylene Dibromide	107	14.912	14.916	-0.004	97	4868	0.0200	0.0255	
73 Tetrachloroethene	129	14.988	14.985	0.003	94	3559	0.0200	0.0263	
74 Chlorobenzene	112	15.872	15.873	-0.001	61	9289	0.0200	0.0343	
75 2,3-Dimethylheptane	43	15.877	15.880	-0.003	92	8891	0.0200	0.0213	
76 Ethylbenzene	91	16.158	16.160	-0.002	99	14172	0.0200	0.0302	
77 m-Xylene & p-Xylene	91	16.320	16.322	-0.002	97	22523	0.0400	0.0607	
78 n-Nonane	57	16.729	16.735	-0.006	94	4774	0.0200	0.0197	
79 Bromoform	173	16.778	16.782	-0.004	93	3456	0.0200	0.0177	
80 Styrene	104	16.794	16.794	0.000	97	5769	0.0200	0.0236	
81 o-Xylene	91	16.848	16.852	-0.004	98	11196	0.0200	0.0288	
82 1,1,2,2-Tetrachloroethane	83	17.182	17.183	-0.001	96	7462	0.0200	0.0272	
83 1,2,3-Trichloropropane	110	17.344	17.344	0.000	94	1651	0.0200	0.0238	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Isopropylbenzene	105	17.436	17.441	-0.005	93	14159	0.0200	0.0279	
85 N-Propylbenzene	120	17.975	17.978	-0.003	99	3207	0.0200	0.0225	
86 2-Chlorotoluene	126	18.024	18.026	-0.002	96	4349	0.0200	0.0334	
88 4-Ethyltoluene	105	18.126	18.127	-0.001	97	14478	0.0200	0.0276	
87 1,3,5-Trimethylbenzene	120	18.196	18.199	-0.003	92	5406	0.0200	0.0254	
89 Alpha Methyl Styrene	118	18.433	18.430	0.003	90	4288	0.0200	0.0207	
90 n-Decane	57	18.482	18.478	0.004	88	6190	0.0200	0.0191	
91 tert-Butylbenzene	119	18.622	18.623	-0.001	86	11590	0.0200	0.0252	
92 1,2,4-Trimethylbenzene	105	18.638	18.636	0.002	96	12478	0.0200	0.0279	
93 sec-Butylbenzene	105	18.886	18.888	-0.002	99	15854	0.0200	0.0246	
94 1,3-Dichlorobenzene	146	18.908	18.909	-0.001	98	13218	0.0200	0.0445	
95 Benzyl chloride	91	18.978	18.984	-0.006	96	9763	0.0200	0.0311	
96 1,4-Dichlorobenzene	146	18.994	18.996	-0.002	93	14702	0.0200	0.0508	
97 4-Isopropyltoluene	119	19.048	19.049	-0.001	96	12755	0.0200	0.0239	
98 1,2,3-Trimethylbenzene	105	19.102	19.103	-0.001	99	9785	0.0200	0.0212	
99 Butylcyclohexane	83	19.151	19.153	-0.002	88	7336	0.0200	0.0201	
100 2,3-Dihydroindene	117	19.350	19.351	-0.001	86	10932	0.0200	0.0258	
101 1,2-Dichlorobenzene	146	19.350	19.353	-0.003	93	12714	0.0200	0.0430	
103 n-Butylbenzene	91	19.485	19.480	0.005	95	15168	0.0200	0.0285	
102 Indene	116	19.480	19.481	-0.001	79	9691	0.0200	0.0280	
104 Undecane	57	19.781	19.779	0.002	91	5413	0.0200	0.0144	
105 1,2-Dibromo-3-Chloropropane	157	19.959	19.955	0.004	85	4024	0.0200	0.0274	
106 1,2,4,5-Tetramethylbenzene	119	20.229	20.230	-0.001	95	11758	0.0200	0.0225	
107 Dodecane	57	20.935	20.854	0.081	69	1381	0.0200	0.003558	
108 1,2,4-Trichlorobenzene	180	21.059	21.058	0.001	93	16224	0.0200	0.0577	
109 Naphthalene	128	21.205	21.205	0.000	99	30441	0.0200	0.0321	
110 Hexachlorobutadiene	225	21.415	21.415	0.000	95	8947	0.0200	0.0282	
111 1,2,3-Trichlorobenzene	180	21.485	21.489	-0.004	94	15514	0.0200	0.0553	
112 2-Methylnaphthalene	142	22.106	22.104	0.002	96	6823	0.0200	0.0448	
113 1-Methylnaphthalene	142	22.235	22.231	0.004	97	7808	0.0200	0.0471	
A 116 C8 Range	1	14.513	(14.475-14.540)		0	23657	0.0200	0.0208	
S 117 Xylenes, Total	100				0		0.0600	0.0895	
S 118 1,2-Dichloroethene, Total	1				0		0.0400	0.0455	

QC Flag Legend

Processing Flags

Reagents:

40L1-3DQP_00042	Amount Added: 50.00	Units: mL	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

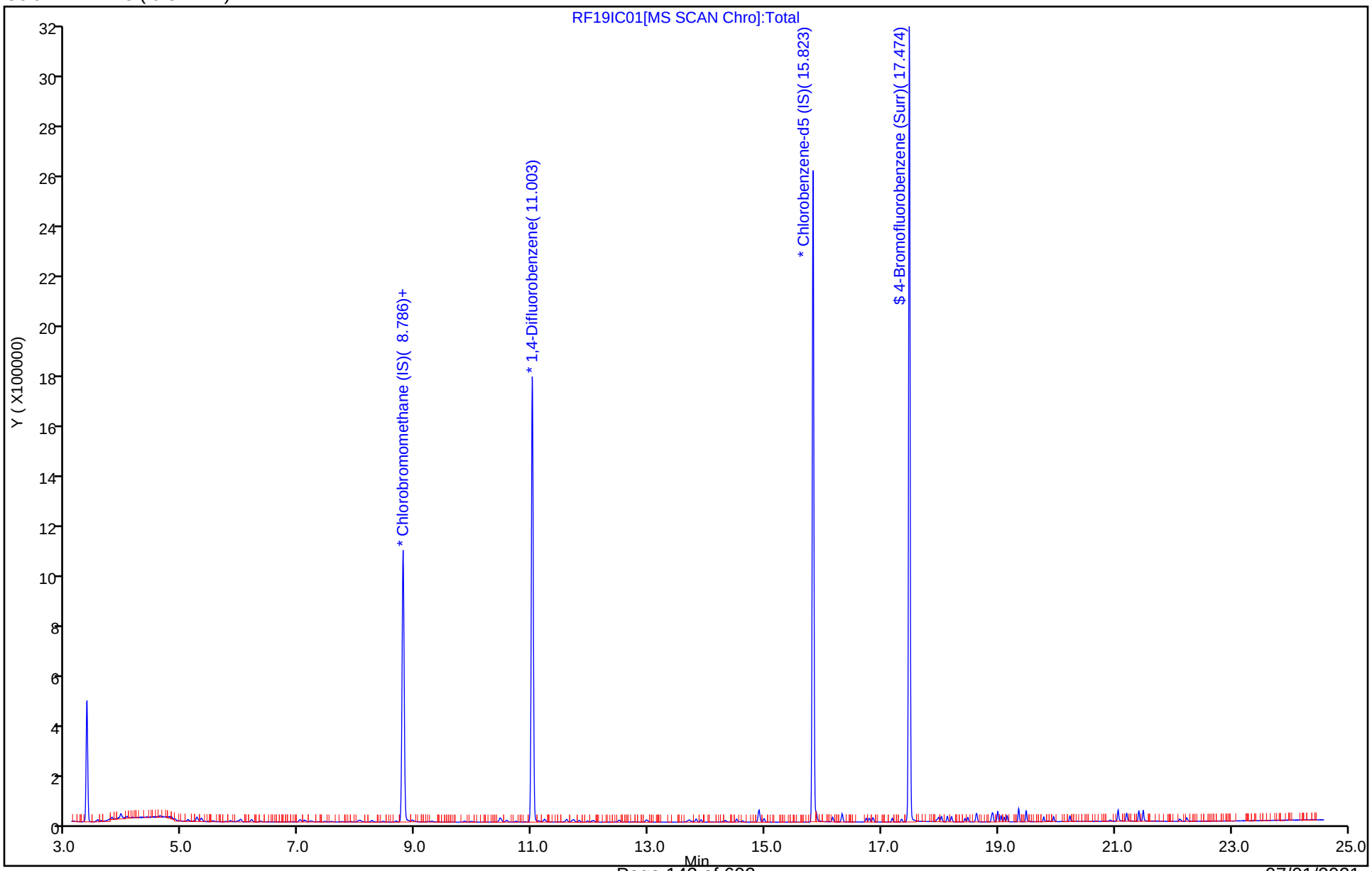
Report Date: 21-Jun-2021 11:40:34 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC01.D

Injection Date:	19-Jun-2021 14:22:30	Instrument ID:	MR	Operator ID:	HMT
Lims ID:	IC L1			Worklist Smp#:	10
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

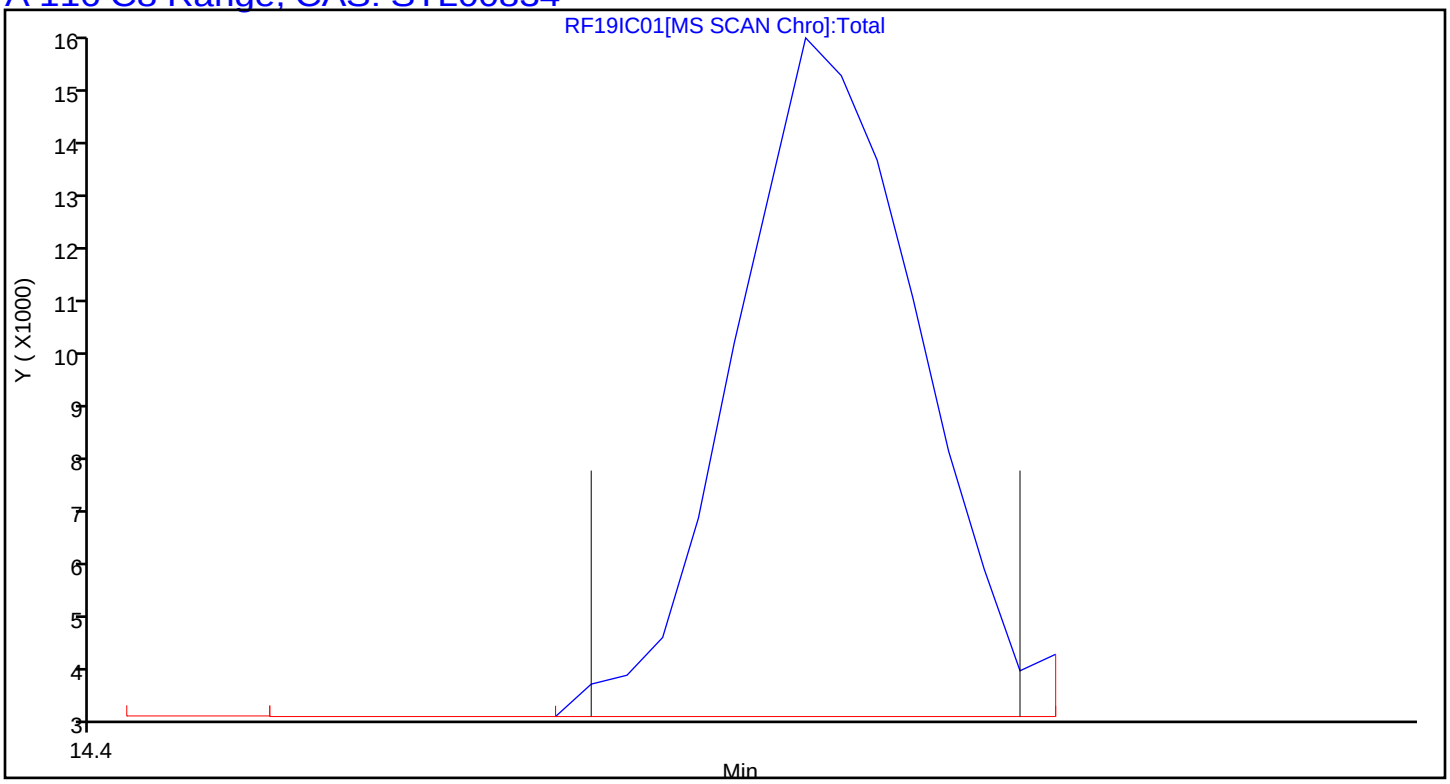


Report Date: 21-Jun-2021 11:40:34 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC01.D				
Injection Date:	19-Jun-2021 14:22:30	Instrument ID:	MR		
Lims ID:	IC L1				
Client ID:					
Operator ID:	HMT	ALS Bottle#:	1	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 116 C8 Range, CAS: STL00834



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC02.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 19-Jun-2021 15:07:30 ALS Bottle#: 1 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019646-011
Misc. Info.: 387801
Operator ID: HMT Instrument ID: MR
Sublist: chrom-MR_TO15*sub16

Method: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\MR_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Jun-2021 11:40:38 Calib Date: 19-Jun-2021 18:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1626

First Level Reviewer: tajh Date: 21-Jun-2021 11:18:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.787	8.792	-0.005	99	340455	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.003	11.009	-0.006	95	1643715	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	15.824	15.825	-0.001	88	1526419	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.474	17.475	-0.001	94	1091605	4.64	4.58	
6 Chlorodifluoromethane	51	3.540	3.540	0.000	97	7000	0.0400	0.0429	
7 Propene	41	3.556	3.552	0.004	97	4359	0.0400	0.0485	
8 Dichlorodifluoromethane	85	3.610	3.605	0.005	100	10334	0.0400	0.0416	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.793	3.795	-0.002	88	6291	0.0400	0.0411	
9 Chloromethane	52	3.777	3.787	-0.010	58	1832	0.0400	0.0727	
11 Acetaldehyde	44	3.944	3.945	-0.001	97	21155	0.2000	-1.14	
12 Vinyl chloride	62	3.955	3.961	-0.006	97	3131	0.0400	0.0418	
14 Butadiene	54	4.047	4.050	-0.003	66	2836	0.0400	0.0470	
13 Butane	43	4.047	4.050	-0.003	85	5237	0.0400	0.0437	
15 Bromomethane	94	4.381	4.376	0.005	82	3805	0.0400	0.0558	
16 Chloroethane	64	4.516	4.520	-0.004	91	1373	0.0400	0.0449	
17 Ethanol	31	4.613	4.610	0.003	95	9190	0.2000	0.2458	
18 Vinyl bromide	106	4.818	4.824	-0.006	93	3247	0.0400	0.0422	
19 2-Methylbutane	43	4.866	4.872	-0.006	93	5115	0.0400	0.0418	
20 Trichlorofluoromethane	101	5.098	5.099	-0.001	98	9740	0.0400	0.0407	
21 Acrolein	56	5.109	5.114	-0.005	93	2133	0.0400	0.0692	
22 Acetonitrile	40	5.179	5.182	-0.003	96	1938	0.0400	0.0441	
23 Acetone	58	5.244	5.233	0.011	98	15750	0.1200	-0.99	
25 Pentane	72	5.319	5.322	-0.003	69	388	0.0400	0.0318	
24 Isopropyl alcohol	45	5.325	5.315	0.010	85	19532	0.1200	0.1407	
26 Ethyl ether	31	5.519	5.507	0.012	94	4664	0.0400	0.0417	
27 1,1-Dichloroethene	96	5.821	5.825	-0.004	97	3852	0.0400	0.0428	
29 Acrylonitrile	53	5.945	5.939	0.006	89	3561	0.0400	0.0496	
28 2-Methyl-2-propanol	59	5.966	5.940	0.026	97	7131	0.0400	0.0427	
30 112TCTFE	101	6.004	6.005	-0.001	96	8055	0.0400	0.0409	
31 Methylene Chloride	84	6.182	6.188	-0.006	98	4696	0.0400	0.0590	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.187	6.203	-0.016	95	4329	0.0400	0.0505	
33 Carbon disulfide	76	6.349	6.351	-0.002	98	9639	0.0400	0.0393	
34 trans-1,2-Dichloroethene	96	7.007	7.015	-0.008	93	3725	0.0400	0.0419	
35 2-Methylpentane	43	7.023	7.026	-0.003	95	10791	0.0400	0.0437	
36 Methyl tert-butyl ether	73	7.190	7.159	0.031	95	10002	0.0400	0.0416	
37 1,1-Dichloroethane	63	7.444	7.449	-0.005	99	7378	0.0400	0.0418	
38 Vinyl acetate	43	7.557	7.554	0.003	100	9365	0.0400	0.0354	
40 Hexane	56	8.026	8.029	-0.003	75	3159	0.0400	0.0407	
39 2-Butanone (MEK)	72	8.042	8.024	0.018	98	2765	0.0400	0.0583	
41 Isopropyl ether	45	8.242	8.211	0.031	94	14290	0.0400	0.0400	
42 cis-1,2-Dichloroethene	96	8.447	8.452	-0.005	93	4355	0.0400	0.0453	
43 Ethyl acetate	43	8.663	8.646	0.016	98	10867	0.0400	0.0449	
44 Chloroform	83	8.787	8.801	-0.014	27	8685	0.0400	0.0446	
45 Tert-butyl ethyl ether	59	8.932	8.902	0.030	98	11402	0.0400	0.0382	
46 Tetrahydrofuran	42	9.266	9.228	0.038	96	5184	0.0400	0.0424	
47 1,1,1-Trichloroethane	97	9.843	9.847	-0.004	97	7799	0.0400	0.0403	
48 1,2-Dichloroethane	62	9.957	9.964	-0.007	95	6478	0.0400	0.0457	
50 Cyclohexane	69	10.453	10.450	0.003	70	1950	0.0400	0.0443	
51 Benzene	78	10.453	10.455	-0.002	97	13739	0.0400	0.0492	
49 n-Butanol	31	10.447	10.421	0.026	51	1613	0.0400	0.0370	
52 Carbon tetrachloride	117	10.469	10.475	-0.006	96	6964	0.0400	0.0384	
53 2,3-Dimethylpentane	71	10.571	10.571	0.000	94	2403	0.0400	0.0382	
54 Thiophene	84	10.728	10.735	-0.007	94	6055	0.0400	0.0393	
55 Isooctane	57	11.208	11.217	-0.009	97	20250	0.0400	0.0406	
56 n-Heptane	71	11.591	11.598	-0.007	90	3854	0.0400	0.0401	
57 1,2-Dichloropropane	63	11.688	11.691	-0.003	89	5249	0.0400	0.0438	
58 Trichloroethene	130	11.715	11.725	-0.010	91	5379	0.0400	0.0426	
59 Dibromomethane	93	11.806	11.814	-0.008	95	5728	0.0400	0.0484	
60 Dichlorobromomethane	83	11.952	11.959	-0.007	98	6950	0.0400	0.0374	
61 1,4-Dioxane	88	12.017	11.990	0.027	69	1974	0.0400	0.0465	
62 Methyl methacrylate	41	12.054	12.051	0.003	90	7564	0.0400	0.0499	
63 Methylcyclohexane	83	12.491	12.497	-0.006	91	6828	0.0400	0.0399	
64 4-Methyl-2-pentanone (MIBK)	43	12.944	12.925	0.019	97	10634	0.0400	0.0390	
65 cis-1,3-Dichloropropene	75	12.982	12.980	0.002	96	5592	0.0400	0.0353	
66 trans-1,3-Dichloropropene	75	13.688	13.697	-0.009	95	4610	0.0400	0.0343	
67 Toluene	91	13.812	13.819	-0.007	92	16299	0.0400	0.0464	
68 1,1,2-Trichloroethane	83	13.899	13.902	-0.004	96	4781	0.0400	0.0443	
69 2-Hexanone	58	14.308	14.296	0.012	90	4700	0.0400	0.0404	
70 n-Octane	85	14.508	14.514	-0.006	94	3887	0.0400	0.0385	
71 Chlorodibromomethane	129	14.616	14.617	-0.001	97	5824	0.0400	0.0324	
72 Ethylene Dibromide	107	14.912	14.916	-0.004	99	7836	0.0400	0.0427	
73 Tetrachloroethene	129	14.982	14.985	-0.003	96	5800	0.0400	0.0446	
74 Chlorobenzene	112	15.872	15.873	-0.001	85	14071	0.0400	0.0541	
75 2,3-Dimethylheptane	43	15.878	15.880	-0.002	94	17007	0.0400	0.0423	
76 Ethylbenzene	91	16.158	16.160	-0.002	98	21244	0.0400	0.0471	
77 m-Xylene & p-Xylene	91	16.320	16.322	-0.002	98	34546	0.0800	0.0970	
78 n-Nonane	57	16.735	16.735	0.000	94	8862	0.0400	0.0381	
79 Bromoform	173	16.778	16.782	-0.004	95	5736	0.0400	0.0307	
80 Styrene	104	16.794	16.794	0.000	98	9166	0.0400	0.0391	
81 o-Xylene	91	16.848	16.852	-0.004	98	18125	0.0400	0.0485	
82 1,1,2,2-Tetrachloroethane	83	17.182	17.183	-0.001	98	11681	0.0400	0.0444	
83 1,2,3-Trichloropropane	110	17.344	17.344	0.000	97	2900	0.0400	0.0436	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Isopropylbenzene	105	17.441	17.441	0.000	97	22620	0.0400	0.0464	
85 N-Propylbenzene	120	17.975	17.978	-0.003	99	5810	0.0400	0.0425	
86 2-Chlorotoluene	126	18.024	18.026	-0.002	98	6447	0.0400	0.0516	
88 4-Ethyltoluene	105	18.126	18.127	-0.001	98	22679	0.0400	0.0450	
87 1,3,5-Trimethylbenzene	120	18.196	18.199	-0.003	93	9100	0.0400	0.0446	
89 Alpha Methyl Styrene	118	18.428	18.430	-0.002	88	6489	0.0400	0.0327	
90 n-Decane	57	18.477	18.478	-0.001	90	12029	0.0400	0.0388	
91 tert-Butylbenzene	119	18.622	18.623	-0.001	89	19391	0.0400	0.0439	
92 1,2,4-Trimethylbenzene	105	18.633	18.636	-0.003	96	19976	0.0400	0.0465	
93 sec-Butylbenzene	105	18.886	18.888	-0.002	98	26829	0.0400	0.0434	
94 1,3-Dichlorobenzene	146	18.908	18.909	-0.001	98	17182	0.0400	0.0603	
95 Benzyl chloride	91	18.984	18.984	0.000	91	10965	0.0400	0.0364	
96 1,4-Dichlorobenzene	146	18.994	18.996	-0.002	93	16746	0.0400	0.0603	
97 4-Isopropyltoluene	119	19.048	19.049	-0.001	96	21306	0.0400	0.0416	
98 1,2,3-Trimethylbenzene	105	19.102	19.103	-0.001	98	17864	0.0400	0.0403	
99 Butylcyclohexane	83	19.156	19.153	0.003	90	14296	0.0400	0.0407	
100 2,3-Dihydroindene	117	19.350	19.351	-0.001	91	17698	0.0400	0.0436	
101 1,2-Dichlorobenzene	146	19.350	19.353	-0.003	96	16884	0.0400	0.0594	
102 Indene	116	19.480	19.481	-0.001	73	13695	0.0400	0.0413	
103 n-Butylbenzene	91	19.480	19.480	0.000	95	24108	0.0400	0.0472	
104 Undecane	57	19.782	19.779	0.003	91	12588	0.0400	0.0348	
105 1,2-Dibromo-3-Chloropropane	157	19.954	19.955	-0.001	88	5554	0.0400	0.0393	
106 1,2,4,5-Tetramethylbenzene	119	20.229	20.230	-0.001	96	20665	0.0400	0.0411	
107 Dodecane	57	20.898	20.854	0.044	56	5954	0.0400	0.0160	
108 1,2,4-Trichlorobenzene	180	21.054	21.058	-0.004	94	18398	0.0400	0.0681	
109 Naphthalene	128	21.205	21.205	0.000	99	34154	0.0400	0.0418	
110 Hexachlorobutadiene	225	21.415	21.415	0.000	96	15247	0.0400	0.0500	
111 1,2,3-Trichlorobenzene	180	21.486	21.489	-0.003	96	17568	0.0400	0.0652	
112 2-Methylnaphthalene	142	22.106	22.104	0.002	99	8639	0.0400	0.0591	
113 1-Methylnaphthalene	142	22.235	22.231	0.004	94	9543	0.0400	0.0599	
A 116 C8 Range	1	14.513	(14.475-14.540)		0	43965	0.0400	0.0403	
S 117 Xylenes, Total	100				0		0.1200	0.1455	
S 118 1,2-Dichloroethene, Total	1				0		0.0800	0.0872	

QC Flag Legend

Processing Flags

Reagents:

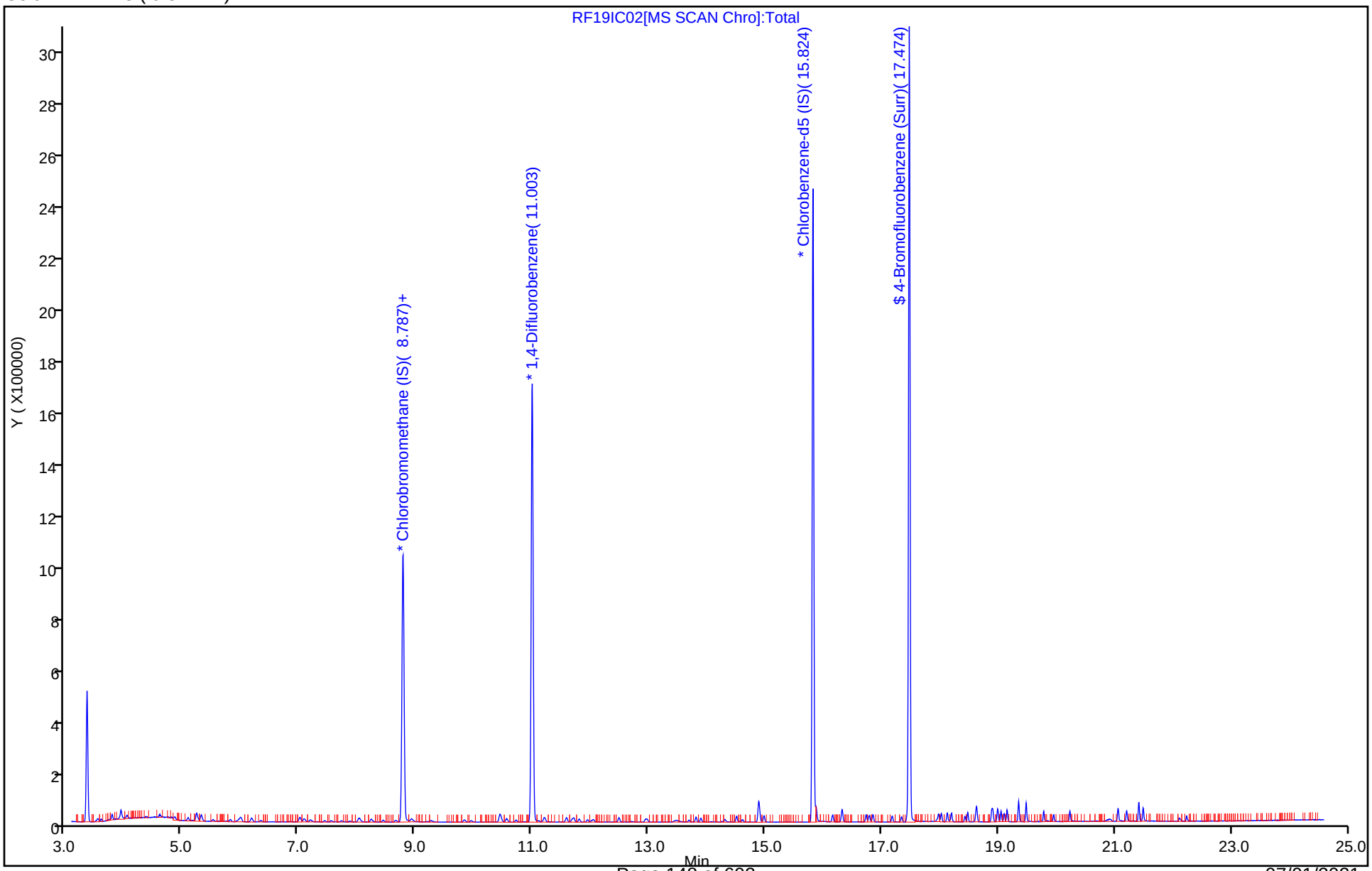
40L1-3DQP_00042	Amount Added: 100.00	Units: mL	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

Report Date: 21-Jun-2021 11:40:39 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC02.D				
Injection Date:	19-Jun-2021 15:07:30	Instrument ID:	MR	Operator ID:	HMT
Lims ID:	IC L2			Worklist Smp#:	11
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

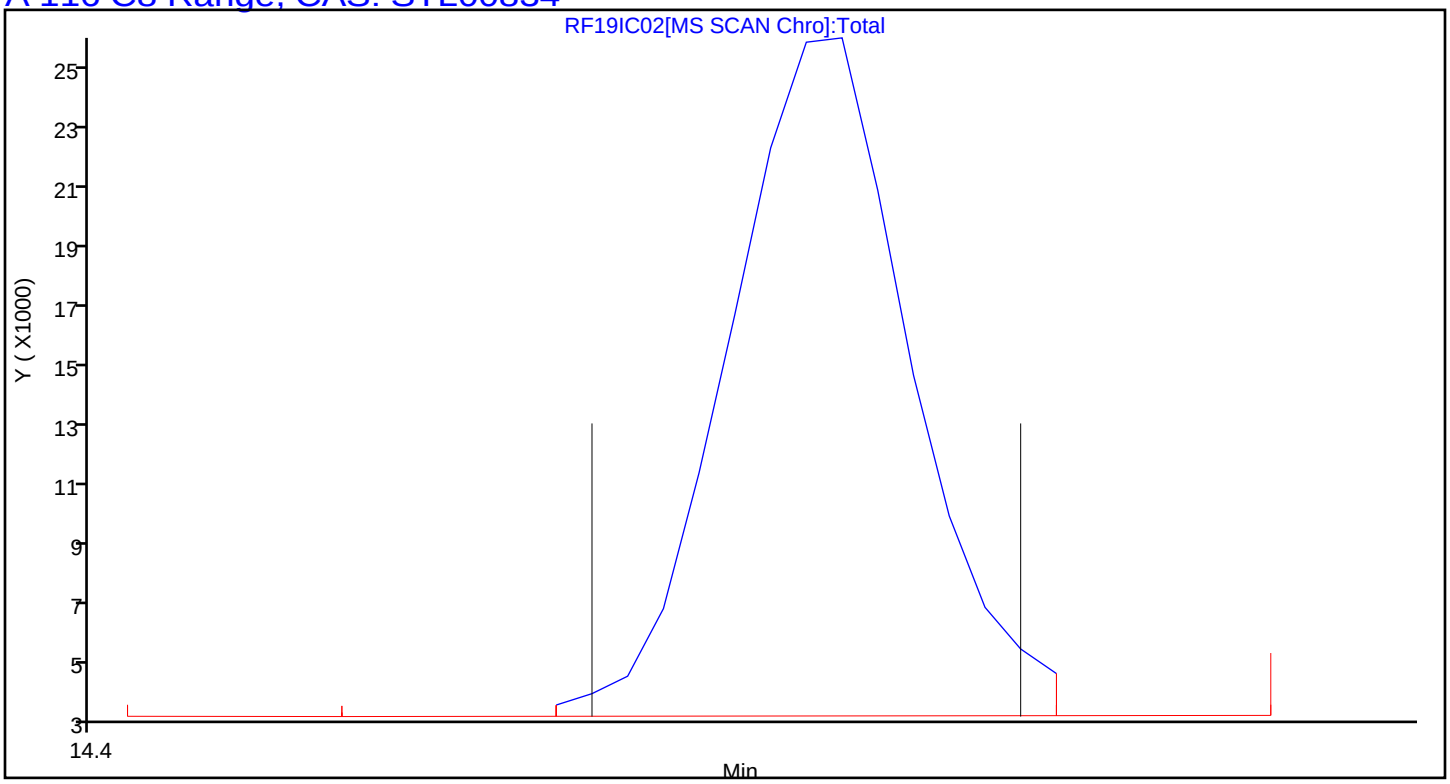


Report Date: 21-Jun-2021 11:40:39 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC02.D				
Injection Date:	19-Jun-2021 15:07:30	Instrument ID:	MR		
Lims ID:	IC L2				
Client ID:					
Operator ID:	HMT	ALS Bottle#:	1	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 116 C8 Range, CAS: STL00834



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC03.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 19-Jun-2021 15:51:30 ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019646-012
Misc. Info.: 387801
Operator ID: HMT Instrument ID: MR
Sublist: chrom-MR_TO15*sub16

Method: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\MR_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Jun-2021 11:40:43 Calib Date: 19-Jun-2021 18:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1626

First Level Reviewer: tajh Date: 21-Jun-2021 11:19:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.787	8.792	-0.005	98	329450	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.003	11.009	-0.006	95	1563788	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	15.824	15.825	-0.001	88	1474349	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.474	17.475	-0.001	94	1048768	4.64	4.55	
6 Chlorodifluoromethane	51	3.534	3.540	-0.006	97	13215	0.0800	0.0837	
7 Propene	41	3.551	3.552	-0.001	97	7860	0.0800	0.0904	
8 Dichlorodifluoromethane	85	3.605	3.605	0.000	99	19186	0.0800	0.0797	
9 Chloromethane	52	3.788	3.787	0.001	60	2036	0.0800	0.0834	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.788	3.795	-0.007	89	11970	0.0800	0.0809	
11 Acetaldehyde	44	3.939	3.945	-0.006	99	37057	0.4000	-0.5246	
12 Vinyl chloride	62	3.955	3.961	-0.006	98	6090	0.0800	0.0840	
13 Butane	43	4.047	4.050	-0.003	84	9934	0.0800	0.0856	
14 Butadiene	54	4.047	4.050	-0.003	66	5101	0.0800	0.0874	
15 Bromomethane	94	4.370	4.376	-0.006	97	5361	0.0800	0.0812	
16 Chloroethane	64	4.516	4.520	-0.004	91	2743	0.0800	0.0926	
17 Ethanol	31	4.602	4.610	-0.008	97	15341	0.4000	0.4241	
18 Vinyl bromide	106	4.818	4.824	-0.006	99	6330	0.0800	0.0851	
19 2-Methylbutane	43	4.866	4.872	-0.006	94	10705	0.0800	0.0905	
20 Trichlorofluoromethane	101	5.093	5.099	-0.006	100	18421	0.0800	0.0795	
21 Acrolein	56	5.109	5.114	-0.005	28	3111	0.0800	0.1043	
22 Acetonitrile	40	5.174	5.182	-0.008	98	3468	0.0800	0.0815	
23 Acetone	58	5.238	5.233	0.005	99	27872	0.2400	-0.6756	
25 Pentane	72	5.314	5.322	-0.008	72	1013	0.0800	0.0857	
24 Isopropyl alcohol	45	5.319	5.315	0.004	88	33833	0.2400	0.2519	
26 Ethyl ether	31	5.513	5.507	0.006	92	8480	0.0800	0.0784	
27 1,1-Dichloroethene	96	5.821	5.825	-0.004	96	7201	0.0800	0.0826	
29 Acrylonitrile	53	5.934	5.939	-0.005	93	5907	0.0800	0.0850	
28 2-Methyl-2-propanol	59	5.956	5.940	0.016	95	13294	0.0800	0.0822	
30 112TCTFE	101	5.999	6.005	-0.006	95	15946	0.0800	0.0837	
31 Methylene Chloride	84	6.182	6.188	-0.006	98	7690	0.0800	0.0999	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.193	6.203	-0.010	96	7242	0.0800	0.0873	
33 Carbon disulfide	76	6.349	6.351	-0.002	99	17667	0.0800	0.0744	
34 trans-1,2-Dichloroethene	96	7.007	7.015	-0.008	95	7151	0.0800	0.0831	
35 2-Methylpentane	43	7.023	7.026	-0.003	94	20533	0.0800	0.0859	
36 Methyl tert-butyl ether	73	7.180	7.159	0.021	95	18203	0.0800	0.0782	
37 1,1-Dichloroethane	63	7.444	7.449	-0.005	99	14001	0.0800	0.0819	
38 Vinyl acetate	43	7.552	7.554	-0.002	99	18009	0.0800	0.0704	
40 Hexane	56	8.021	8.029	-0.008	73	6547	0.0800	0.0872	
39 2-Butanone (MEK)	72	8.037	8.024	0.013	93	4615	0.0800	0.1006	
41 Isopropyl ether	45	8.226	8.211	0.015	94	26888	0.0800	0.0777	
42 cis-1,2-Dichloroethene	96	8.442	8.452	-0.010	97	7597	0.0800	0.0816	
43 Ethyl acetate	43	8.657	8.646	0.011	99	20035	0.0800	0.0856	
44 Chloroform	83	8.792	8.801	-0.009	28	15680	0.0800	0.0832	
45 Tert-butyl ethyl ether	59	8.927	8.902	0.025	97	22355	0.0800	0.0774	
46 Tetrahydrofuran	42	9.256	9.228	0.028	93	9488	0.0800	0.0802	
47 1,1,1-Trichloroethane	97	9.844	9.847	-0.003	97	14593	0.0800	0.0779	
48 1,2-Dichloroethane	62	9.957	9.964	-0.007	96	11655	0.0800	0.0864	
49 n-Butanol	31	10.442	10.421	0.021	55	2718	0.0800	0.0655	
51 Benzene	78	10.448	10.455	-0.007	96	24078	0.0800	0.0907	
50 Cyclohexane	69	10.448	10.450	-0.002	75	3235	0.0800	0.0772	
52 Carbon tetrachloride	117	10.469	10.475	-0.006	97	14504	0.0800	0.0841	
53 2,3-Dimethylpentane	71	10.577	10.571	0.006	92	4657	0.0800	0.0778	
54 Thiophene	84	10.733	10.735	-0.002	97	12116	0.0800	0.0826	
55 Isooctane	57	11.213	11.217	-0.004	97	38461	0.0800	0.0810	
56 n-Heptane	71	11.596	11.598	-0.002	92	7298	0.0800	0.0798	
57 1,2-Dichloropropane	63	11.688	11.691	-0.003	90	9599	0.0800	0.0842	
58 Trichloroethene	130	11.726	11.725	0.001	93	9449	0.0800	0.0786	
59 Dibromomethane	93	11.812	11.814	-0.002	94	9196	0.0800	0.0817	
60 Dichlorobromomethane	83	11.957	11.959	-0.002	96	12960	0.0800	0.0734	
61 1,4-Dioxane	88	12.006	11.990	0.016	78	3324	0.0800	0.0824	
62 Methyl methacrylate	41	12.054	12.051	0.003	90	12210	0.0800	0.0847	
63 Methylcyclohexane	83	12.497	12.497	0.000	90	12469	0.0800	0.0765	
64 4-Methyl-2-pentanone (MIBK)	43	12.939	12.925	0.014	97	20683	0.0800	0.0797	
65 cis-1,3-Dichloropropene	75	12.977	12.980	-0.003	98	11190	0.0800	0.0742	
66 trans-1,3-Dichloropropene	75	13.694	13.697	-0.003	99	9026	0.0800	0.0696	
67 Toluene	91	13.818	13.819	-0.001	91	28226	0.0800	0.0832	
68 1,1,2-Trichloroethane	83	13.899	13.902	-0.003	95	8712	0.0800	0.0835	
69 2-Hexanone	58	14.308	14.296	0.012	90	7264	0.0800	0.0647	
70 n-Octane	85	14.513	14.514	-0.001	94	7794	0.0800	0.0799	
71 Chlorodibromomethane	129	14.610	14.617	-0.007	96	11293	0.0800	0.0651	
72 Ethylene Dibromide	107	14.912	14.916	-0.004	100	14013	0.0800	0.0790	
73 Tetrachloroethene	129	14.982	14.985	-0.003	95	11172	0.0800	0.0890	
74 Chlorobenzene	112	15.872	15.873	-0.001	94	24000	0.0800	0.0955	
75 2,3-Dimethylheptane	43	15.878	15.880	-0.002	94	32761	0.0800	0.0844	
76 Ethylbenzene	91	16.158	16.160	-0.002	98	37837	0.0800	0.0869	
77 m-Xylene & p-Xylene	91	16.320	16.322	-0.002	98	57457	0.1600	0.1671	
78 n-Nonane	57	16.735	16.735	0.000	94	17176	0.0800	0.0764	
79 Bromoform	173	16.778	16.782	-0.004	95	10865	0.0800	0.0601	
80 Styrene	104	16.789	16.794	-0.005	99	17002	0.0800	0.0751	
81 o-Xylene	91	16.848	16.852	-0.004	98	31155	0.0800	0.0863	
82 1,1,2,2-Tetrachloroethane	83	17.183	17.183	0.000	98	21203	0.0800	0.0834	
83 1,2,3-Trichloropropane	110	17.339	17.344	-0.005	97	5251	0.0800	0.0817	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Isopropylbenzene	105	17.441	17.441	0.000	95	39150	0.0800	0.0832	
85 N-Propylbenzene	120	17.975	17.978	-0.003	99	10237	0.0800	0.0775	
86 2-Chlorotoluene	126	18.024	18.026	-0.002	97	10987	0.0800	0.0910	
88 4-Ethyltoluene	105	18.126	18.127	-0.001	99	40993	0.0800	0.0843	
87 1,3,5-Trimethylbenzene	120	18.196	18.199	-0.003	93	16965	0.0800	0.0860	
89 Alpha Methyl Styrene	118	18.428	18.430	-0.002	87	12134	0.0800	0.0633	
90 n-Decane	57	18.477	18.478	-0.001	88	23430	0.0800	0.0782	
91 tert-Butylbenzene	119	18.622	18.623	-0.001	92	36698	0.0800	0.0860	
92 1,2,4-Trimethylbenzene	105	18.633	18.636	-0.003	95	36112	0.0800	0.0870	
93 sec-Butylbenzene	105	18.887	18.888	-0.001	99	50596	0.0800	0.0848	
94 1,3-Dichlorobenzene	146	18.908	18.909	-0.001	97	26383	0.0800	0.0958	
95 Benzyl chloride	91	18.984	18.984	0.000	97	18658	0.0800	0.0641	
96 1,4-Dichlorobenzene	146	18.994	18.996	-0.002	93	25687	0.0800	0.0957	
97 4-Isopropyltoluene	119	19.048	19.049	-0.001	97	40482	0.0800	0.0819	
98 1,2,3-Trimethylbenzene	105	19.102	19.103	-0.001	99	34593	0.0800	0.0807	
99 Butylcyclohexane	83	19.151	19.153	-0.002	91	28405	0.0800	0.0838	
100 2,3-Dihydroindene	117	19.350	19.351	-0.001	92	33124	0.0800	0.0844	
101 1,2-Dichlorobenzene	146	19.350	19.353	-0.003	96	26760	0.0800	0.0975	
103 n-Butylbenzene	91	19.480	19.480	0.000	95	43541	0.0800	0.0883	
102 Indene	116	19.480	19.481	-0.001	74	25485	0.0800	0.0795	
104 Undecane	57	19.776	19.779	-0.003	94	27300	0.0800	0.0782	
105 1,2-Dibromo-3-Chloropropane	157	19.954	19.955	-0.001	91	9421	0.0800	0.0691	
106 1,2,4,5-Tetramethylbenzene	119	20.229	20.230	-0.001	96	40653	0.0800	0.0838	
107 Dodecane	57	20.839	20.854	-0.015	93	17626	0.0800	0.0490	
108 1,2,4-Trichlorobenzene	180	21.054	21.058	-0.004	94	26912	0.0800	0.1032	
109 Naphthalene	128	21.200	21.205	-0.005	99	51396	0.0800	0.0792	
110 Hexachlorobutadiene	225	21.416	21.415	0.001	95	28421	0.0800	0.0965	
111 1,2,3-Trichlorobenzene	180	21.491	21.489	0.002	95	27137	0.0800	0.1042	
112 2-Methylnaphthalene	142	22.106	22.104	0.002	98	12483	0.0800	0.0884	
113 1-Methylnaphthalene	142	22.230	22.231	-0.001	99	16799	0.0800	0.1092	
A 116 C8 Range	1	14.506	(14.476-14.551)		0	80563	0.0800	0.0776	
S 117 Xylenes, Total	100				0		0.2400	0.2534	
S 118 1,2-Dichloroethene, Total	1				0		0.1600	0.1648	

QC Flag Legend

Processing Flags

Reagents:

40L1-3DQP_00042	Amount Added: 200.00	Units: mL	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

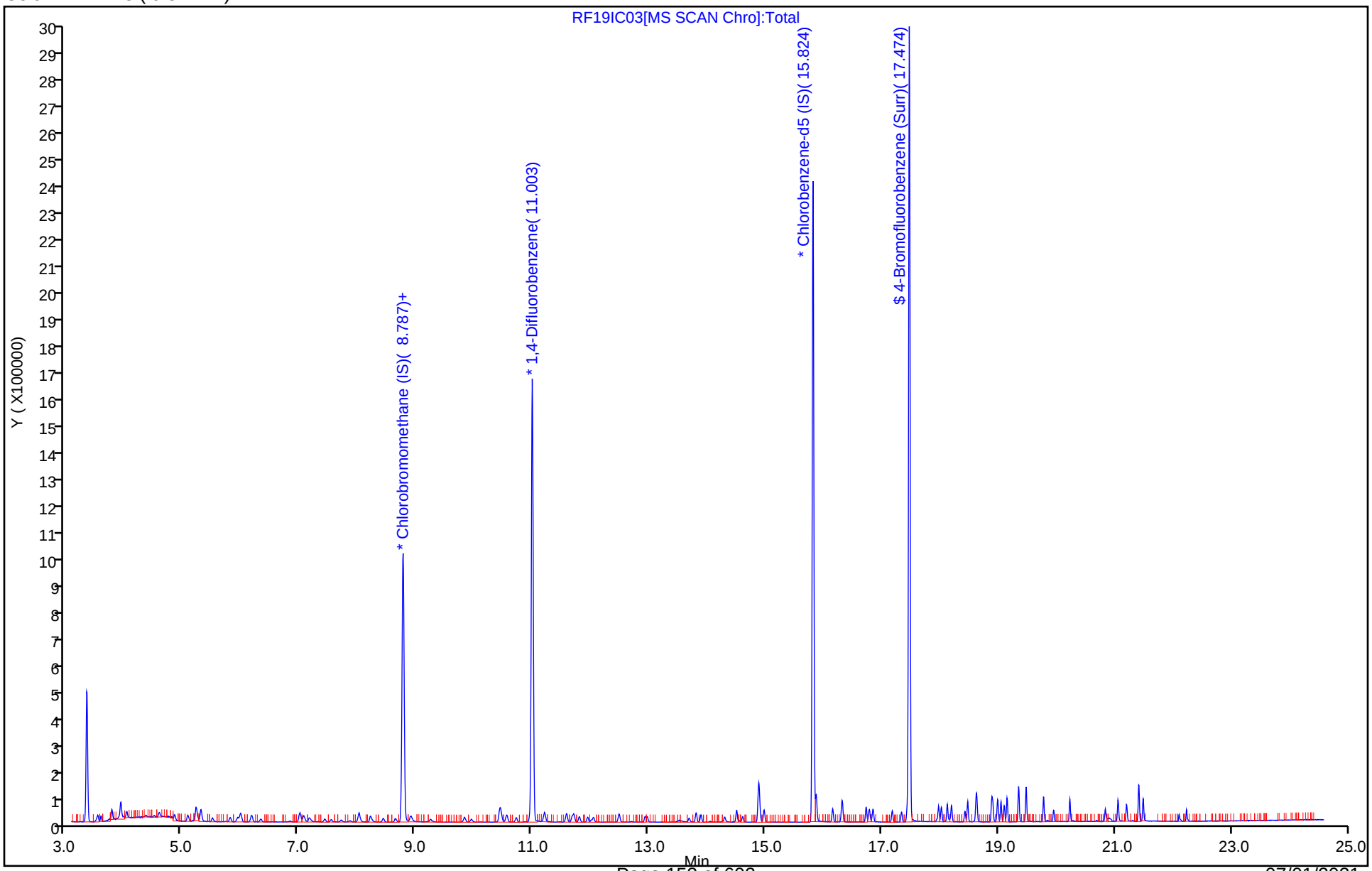
Report Date: 21-Jun-2021 11:40:44 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC03.D

Injection Date:	19-Jun-2021 15:51:30	Instrument ID:	MR	Operator ID:	HMT
Lims ID:	IC L3			Worklist Smp#:	12
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

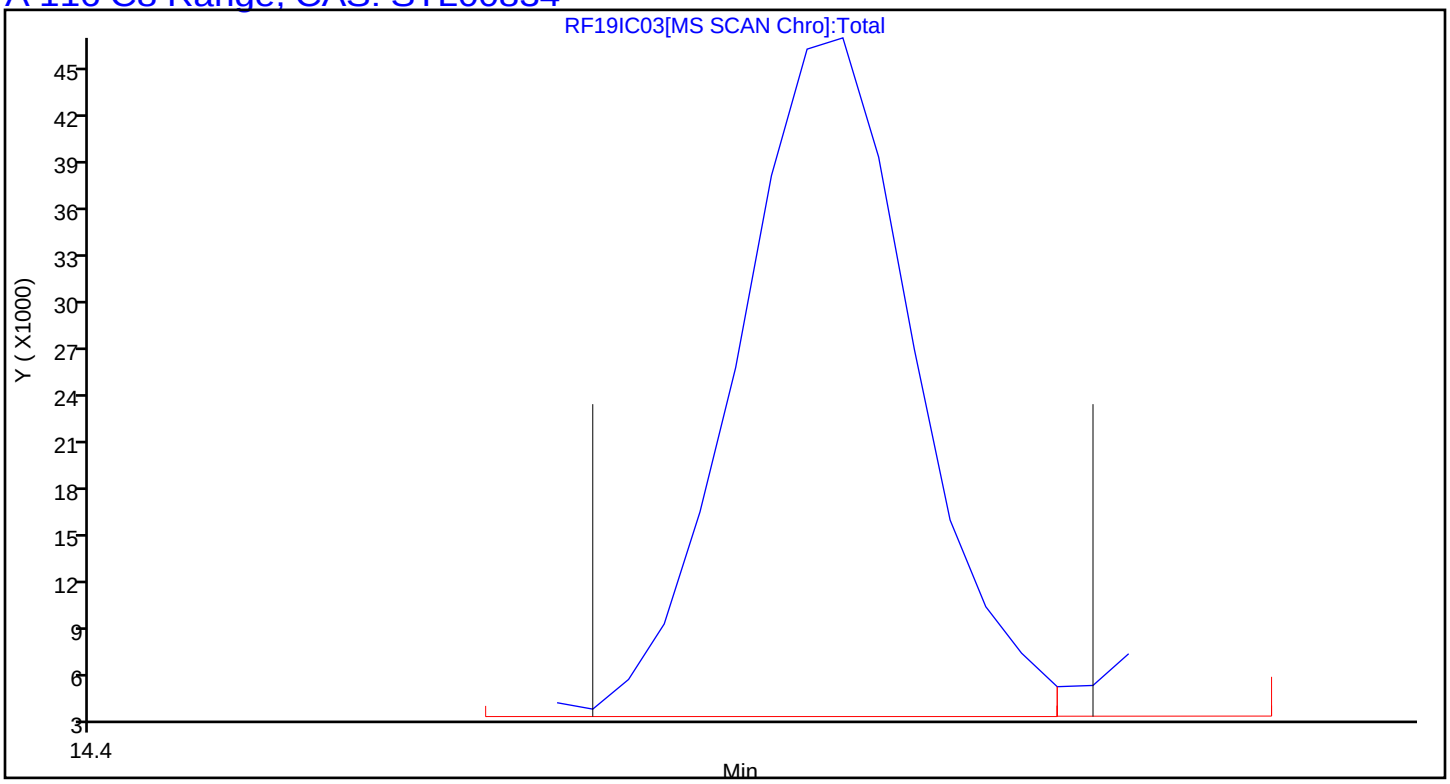


Report Date: 21-Jun-2021 11:40:44 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC03.D				
Injection Date:	19-Jun-2021 15:51:30	Instrument ID:	MR		
Lims ID:	IC L3				
Client ID:					
Operator ID:	HMT	ALS Bottle#:	1	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 116 C8 Range, CAS: STL00834



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC04.D
Lims ID: IC L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 19-Jun-2021 16:36:30 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019646-013
Misc. Info.: 387800
Operator ID: HMT Instrument ID: MR
Sublist: chrom-MR_TO15*sub16

Method: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\MR_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Jun-2021 11:40:49 Calib Date: 19-Jun-2021 18:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1626

First Level Reviewer: tajh Date: 21-Jun-2021 11:21:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.792	8.792	0.000	98	325806	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.008	11.009	-0.001	95	1554871	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	15.824	15.825	-0.001	88	1449526	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.474	17.475	-0.001	94	1016210	4.64	4.49	
6 Chlorodifluoromethane	51	3.545	3.540	0.005	98	25701	0.1600	0.1646	
7 Propene	41	3.551	3.552	-0.001	98	13932	0.1600	0.1620	
8 Dichlorodifluoromethane	85	3.605	3.605	0.000	100	38429	0.1600	0.1615	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.799	3.795	0.004	91	25291	0.1600	0.1728	
9 Chloromethane	52	3.788	3.787	0.001	64	4716	0.1600	0.1954	
11 Acetaldehyde	44	3.955	3.945	0.010	98	47348	0.8000	-0.1215	
12 Vinyl chloride	62	3.966	3.961	0.005	99	12660	0.1600	0.1765	
13 Butane	43	4.052	4.050	0.002	84	19298	0.1600	0.1682	
14 Butadiene	54	4.052	4.050	0.002	65	9570	0.1600	0.1659	
15 Bromomethane	94	4.376	4.376	0.000	98	12017	0.1600	0.1841	
16 Chloroethane	64	4.527	4.520	0.007	86	5000	0.1600	0.1707	
17 Ethanol	31	4.618	4.610	0.008	96	31494	0.8000	0.8804	
18 Vinyl bromide	106	4.823	4.824	-0.001	98	11912	0.1600	0.1618	
19 2-Methylbutane	43	4.877	4.872	0.005	91	20189	0.1600	0.1726	
20 Trichlorofluoromethane	101	5.104	5.099	0.005	100	36509	0.1600	0.1593	
21 Acrolein	56	5.125	5.114	0.011	93	5065	0.1600	0.1717	
22 Acetonitrile	40	5.190	5.182	0.008	98	6894	0.1600	0.1638	
23 Acetone	58	5.238	5.233	0.005	98	37231	0.4800	-0.4296	
25 Pentane	72	5.325	5.322	0.003	74	1726	0.1600	0.1477	
24 Isopropyl alcohol	45	5.330	5.315	0.015	85	66070	0.4800	0.4974	
26 Ethyl ether	31	5.524	5.507	0.017	93	16797	0.1600	0.1570	
27 1,1-Dichloroethene	96	5.826	5.825	0.001	96	14046	0.1600	0.1630	
29 Acrylonitrile	53	5.939	5.939	0.000	96	11040	0.1600	0.1606	
28 2-Methyl-2-propanol	59	5.966	5.940	0.026	96	24645	0.1600	0.1540	
30 112TCTFE	101	6.010	6.005	0.005	96	30746	0.1600	0.1631	
31 Methylene Chloride	84	6.193	6.188	0.005	98	14386	0.1600	0.1889	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.209	6.203	0.006	94	13946	0.1600	0.1699	
33 Carbon disulfide	76	6.355	6.351	0.004	99	36680	0.1600	0.1563	
34 trans-1,2-Dichloroethene	96	7.018	7.015	0.003	97	14025	0.1600	0.1649	
35 2-Methylpentane	43	7.029	7.026	0.003	96	37210	0.1600	0.1574	
36 Methyl tert-butyl ether	73	7.185	7.159	0.026	96	36148	0.1600	0.1571	
37 1,1-Dichloroethane	63	7.449	7.449	0.000	99	27430	0.1600	0.1623	
38 Vinyl acetate	43	7.557	7.554	0.003	100	36069	0.1600	0.1426	
40 Hexane	56	8.032	8.029	0.003	67	11402	0.1600	0.1536	
39 2-Butanone (MEK)	72	8.037	8.024	0.013	88	8337	0.1600	0.1837	
41 Isopropyl ether	45	8.231	8.211	0.020	97	53119	0.1600	0.1553	
42 cis-1,2-Dichloroethene	96	8.458	8.452	0.006	96	14347	0.1600	0.1558	
43 Ethyl acetate	43	8.657	8.646	0.011	99	38269	0.1600	0.1654	
44 Chloroform	83	8.803	8.801	0.002	95	30608	0.1600	0.1642	
45 Tert-butyl ethyl ether	59	8.921	8.902	0.019	97	44365	0.1600	0.1552	
46 Tetrahydrofuran	42	9.261	9.228	0.033	91	18344	0.1600	0.1567	
47 1,1,1-Trichloroethane	97	9.854	9.847	0.007	97	29172	0.1600	0.1574	
48 1,2-Dichloroethane	62	9.968	9.964	0.004	97	21594	0.1600	0.1610	
49 n-Butanol	31	10.453	10.421	0.032	55	6735	0.1600	0.1632	
51 Benzene	78	10.453	10.455	-0.002	97	45639	0.1600	0.1729	
50 Cyclohexane	69	10.447	10.450	-0.003	75	6785	0.1600	0.1629	
52 Carbon tetrachloride	117	10.480	10.475	0.005	97	20752	0.1600	0.1211	
53 2,3-Dimethylpentane	71	10.571	10.571	0.000	92	9801	0.1600	0.1648	
54 Thiophene	84	10.733	10.735	-0.002	97	23260	0.1600	0.1595	
55 Isooctane	57	11.224	11.217	0.007	97	74241	0.1600	0.1572	
56 n-Heptane	71	11.596	11.598	-0.002	93	14703	0.1600	0.1617	
57 1,2-Dichloropropane	63	11.693	11.691	0.002	89	18326	0.1600	0.1616	
58 Trichloroethene	130	11.725	11.725	0.000	94	19097	0.1600	0.1598	
59 Dibromomethane	93	11.817	11.814	0.003	97	18662	0.1600	0.1667	
60 Dichlorobromomethane	83	11.957	11.959	-0.002	98	26642	0.1600	0.1517	
61 1,4-Dioxane	88	12.006	11.990	0.016	90	6472	0.1600	0.1613	
62 Methyl methacrylate	41	12.060	12.051	0.009	90	22662	0.1600	0.1581	
63 Methylcyclohexane	83	12.502	12.497	0.005	92	26751	0.1600	0.1652	
64 4-Methyl-2-pentanone (MIBK)	43	12.939	12.925	0.014	97	41583	0.1600	0.1612	
65 cis-1,3-Dichloropropene	75	12.982	12.980	0.002	97	21760	0.1600	0.1451	
66 trans-1,3-Dichloropropene	75	13.699	13.697	0.002	98	19131	0.1600	0.1500	
67 Toluene	91	13.818	13.819	-0.001	93	55526	0.1600	0.1664	
68 1,1,2-Trichloroethane	83	13.904	13.902	0.002	95	17190	0.1600	0.1677	
69 2-Hexanone	58	14.303	14.296	0.007	90	16909	0.1600	0.1532	
70 n-Octane	85	14.513	14.514	-0.001	96	16054	0.1600	0.1673	
71 Chlorodibromomethane	129	14.616	14.617	-0.001	96	23187	0.1600	0.1359	
72 Ethylene Dibromide	107	14.918	14.916	0.002	98	28008	0.1600	0.1607	
73 Tetrachloroethene	129	14.982	14.985	-0.003	98	20941	0.1600	0.1696	
74 Chlorobenzene	112	15.872	15.873	-0.001	94	43556	0.1600	0.1762	
75 2,3-Dimethylheptane	43	15.883	15.880	0.003	95	63128	0.1600	0.1655	
76 Ethylbenzene	91	16.158	16.160	-0.002	99	69135	0.1600	0.1615	
77 m-Xylene & p-Xylene	91	16.325	16.322	0.003	98	108018	0.3200	0.3195	
78 n-Nonane	57	16.735	16.735	0.000	95	33536	0.1600	0.1518	
79 Bromoform	173	16.783	16.782	0.001	96	19172	0.1600	0.1079	
80 Styrene	104	16.794	16.794	0.000	99	32009	0.1600	0.1438	
81 o-Xylene	91	16.854	16.852	0.002	99	57160	0.1600	0.1611	
82 1,1,2,2-Tetrachloroethane	83	17.183	17.183	-0.001	98	39106	0.1600	0.1564	
83 1,2,3-Trichloropropane	110	17.344	17.344	0.000	97	10038	0.1600	0.1589	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Isopropylbenzene	105	17.441	17.441	0.000	95	75353	0.1600	0.1628	
85 N-Propylbenzene	120	17.981	17.978	0.003	99	20802	0.1600	0.1601	
86 2-Chlorotoluene	126	18.029	18.026	0.003	97	19975	0.1600	0.1683	
88 4-Ethyltoluene	105	18.126	18.127	-0.001	98	70973	0.1600	0.1484	
87 1,3,5-Trimethylbenzene	120	18.196	18.199	-0.003	92	31887	0.1600	0.1644	
89 Alpha Methyl Styrene	118	18.428	18.430	-0.002	90	25139	0.1600	0.1333	
90 n-Decane	57	18.477	18.478	-0.001	88	49034	0.1600	0.1664	
91 tert-Butylbenzene	119	18.622	18.623	-0.001	92	70768	0.1600	0.1687	
92 1,2,4-Trimethylbenzene	105	18.633	18.636	-0.003	96	68797	0.1600	0.1686	
93 sec-Butylbenzene	105	18.887	18.888	-0.002	99	96245	0.1600	0.1640	
94 1,3-Dichlorobenzene	146	18.908	18.909	-0.001	97	45521	0.1600	0.1682	
95 Benzyl chloride	91	18.984	18.984	0.000	97	34007	0.1600	0.1189	
96 1,4-Dichlorobenzene	146	18.994	18.996	-0.002	94	44735	0.1600	0.1695	
97 4-Isopropyltoluene	119	19.048	19.049	-0.001	97	77480	0.1600	0.1594	
98 1,2,3-Trimethylbenzene	105	19.102	19.103	-0.001	99	67995	0.1600	0.1614	
99 Butylcyclohexane	83	19.151	19.153	-0.002	91	55947	0.1600	0.1679	
100 2,3-Dihydroindene	117	19.350	19.351	-0.001	93	63030	0.1600	0.1634	
101 1,2-Dichlorobenzene	146	19.356	19.353	0.003	96	47481	0.1600	0.1760	
103 n-Butylbenzene	91	19.480	19.480	0.000	95	78305	0.1600	0.1616	
102 Indene	116	19.480	19.481	-0.001	76	48595	0.1600	0.1542	
104 Undecane	57	19.782	19.779	0.003	94	54735	0.1600	0.1595	
105 1,2-Dibromo-3-Chloropropane	157	19.954	19.955	-0.001	92	16389	0.1600	0.1222	
106 1,2,4,5-Tetramethylbenzene	119	20.229	20.230	-0.001	96	76240	0.1600	0.1598	
107 Dodecane	57	20.839	20.854	-0.015	92	54871	0.1600	0.1551	
108 1,2,4-Trichlorobenzene	180	21.060	21.058	0.002	93	41673	0.1600	0.1625	
109 Naphthalene	128	21.205	21.205	0.000	99	78980	0.1600	0.1379	
110 Hexachlorobutadiene	225	21.416	21.415	0.001	96	51123	0.1600	0.1765	
111 1,2,3-Trichlorobenzene	180	21.491	21.489	0.002	97	42648	0.1600	0.1666	
112 2-Methylnaphthalene	142	22.106	22.104	0.002	98	15698	0.1600	0.1130	
113 1-Methylnaphthalene	142	22.235	22.231	0.004	98	22271	0.1600	0.1472	
A 116 C8 Range	1	14.506	(14.476-14.551)		0	166013	0.1600	0.1608	
S 117 Xylenes, Total	100				0		0.4800	0.4806	
S 118 1,2-Dichloroethene, Total	1				0		0.3200	0.3207	

QC Flag Legend

Processing Flags

Reagents:

40L4DQP_00027	Amount Added: 200.00	Units: mL	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

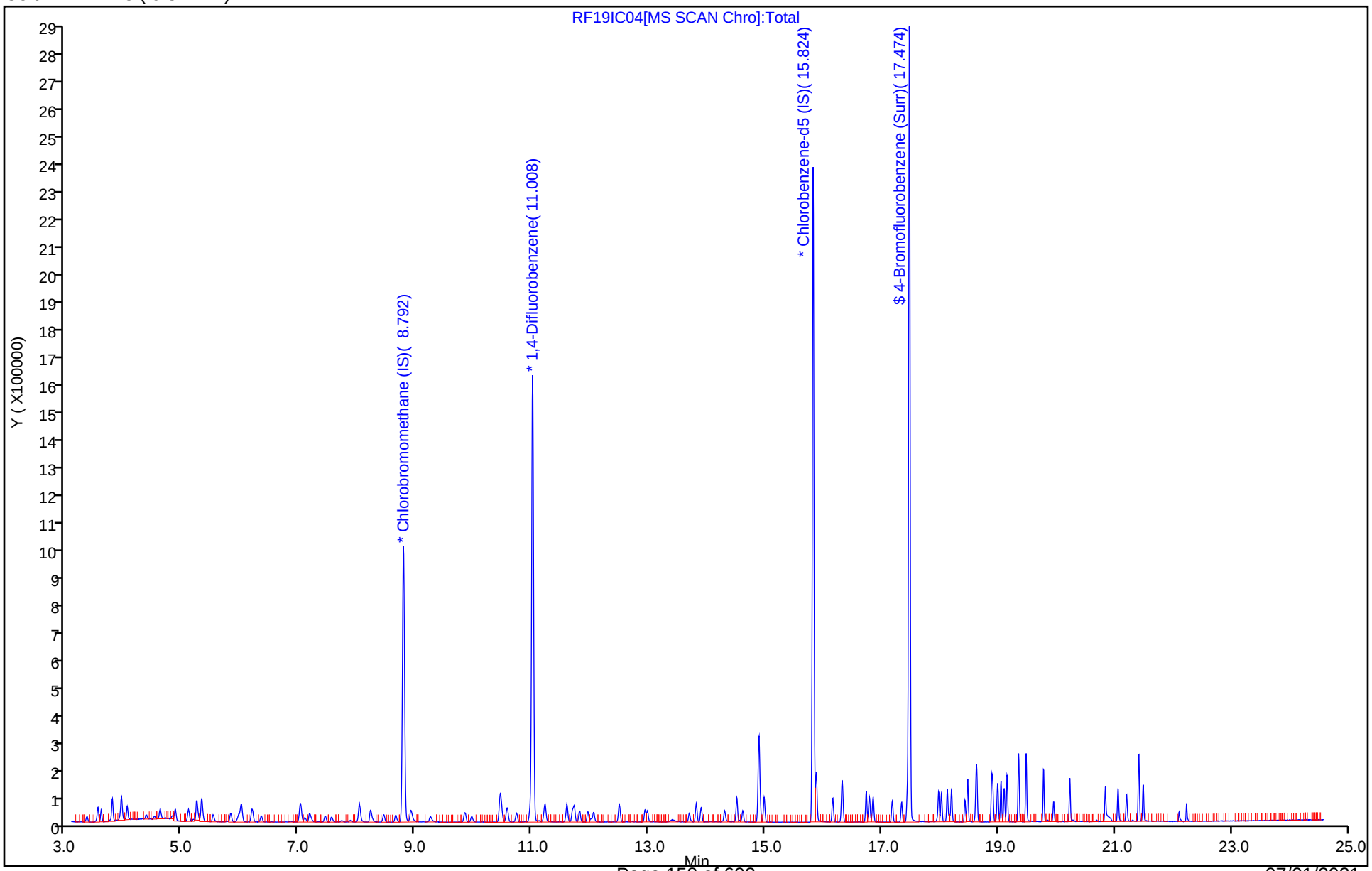
Report Date: 21-Jun-2021 11:40:50 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC04.D

Injection Date:	19-Jun-2021 16:36:30	Instrument ID:	MR	Operator ID:	HMT
Lims ID:	IC L4			Worklist Smp#:	13
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

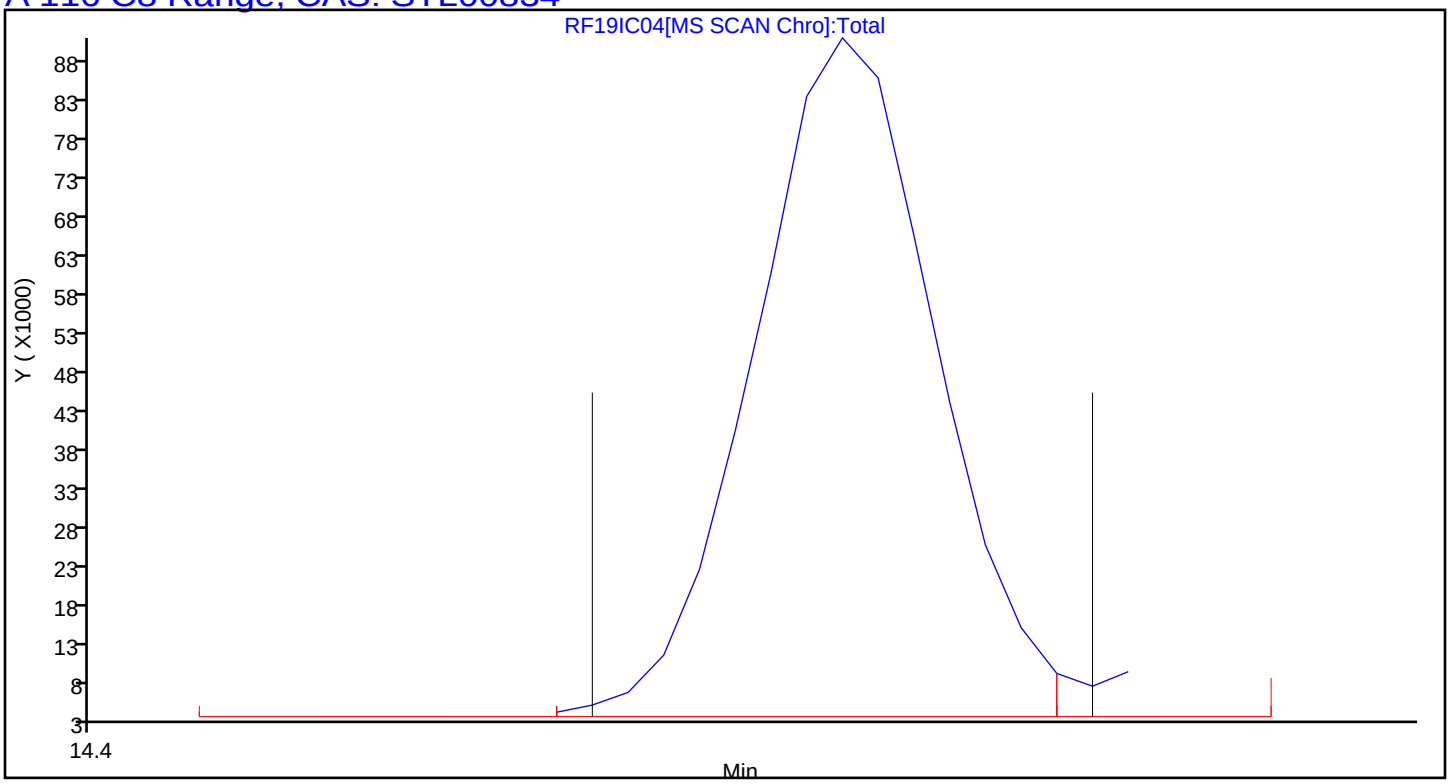


Report Date: 21-Jun-2021 11:40:50 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC04.D				
Injection Date:	19-Jun-2021 16:36:30	Instrument ID:	MR		
Lims ID:	IC L4				
Client ID:					
Operator ID:	HMT	ALS Bottle#:	2	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 116 C8 Range, CAS: STL00834



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC05.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 19-Jun-2021 17:20:30 ALS Bottle#: 3 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019646-014
Misc. Info.: 387799
Operator ID: HMT Instrument ID: MR
Sublist: chrom-MR_TO15*sub16

Method: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\MR_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Jun-2021 11:40:55 Calib Date: 19-Jun-2021 18:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1626

First Level Reviewer: tajh Date: 21-Jun-2021 11:22:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.792	8.792	0.000	98	320869	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.008	11.009	-0.001	95	1521760	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	15.824	15.825	-0.001	88	1427682	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.474	17.475	-0.001	94	1023106	4.64	4.58	
6 Chlorodifluoromethane	51	3.545	3.540	0.005	97	60013	0.4000	0.3903	
7 Propene	41	3.551	3.552	-0.001	97	33936	0.4000	0.4007	
8 Dichlorodifluoromethane	85	3.610	3.605	0.005	100	92444	0.4000	0.3945	
9 Chloromethane	52	3.793	3.787	0.006	59	10810	0.4000	0.4549	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.799	3.795	0.004	94	62609	0.4000	0.4343	
11 Acetaldehyde	44	3.950	3.945	0.005	99	114373	2.00	2.47	
12 Vinyl chloride	62	3.966	3.961	0.005	98	30022	0.4000	0.4250	
13 Butane	43	4.052	4.050	0.002	86	48017	0.4000	0.4250	
14 Butadiene	54	4.057	4.050	0.007	68	23526	0.4000	0.4141	
15 Bromomethane	94	4.376	4.376	0.000	97	26883	0.4000	0.4182	
16 Chloroethane	64	4.527	4.520	0.007	85	12165	0.4000	0.4217	
17 Ethanol	31	4.607	4.610	-0.003	97	70847	2.00	2.01	
18 Vinyl bromide	106	4.829	4.824	0.005	98	29370	0.4000	0.4052	
19 2-Methylbutane	43	4.877	4.872	0.005	93	46684	0.4000	0.4053	
20 Trichlorofluoromethane	101	5.104	5.099	0.005	99	90450	0.4000	0.4007	
21 Acrolein	56	5.120	5.114	0.006	92	12789	0.4000	0.4401	
22 Acetonitrile	40	5.195	5.182	0.013	99	17608	0.4000	0.4248	
23 Acetone	58	5.233	5.233	0.000	99	110404	1.20	1.48	
25 Pentane	72	5.330	5.322	0.008	96	4971	0.4000	0.4320	
24 Isopropyl alcohol	45	5.319	5.315	0.004	93	159766	1.20	1.22	
26 Ethyl ether	31	5.513	5.507	0.006	93	41131	0.4000	0.3903	
27 1,1-Dichloroethene	96	5.832	5.825	0.007	96	33724	0.4000	0.3974	
29 Acrylonitrile	53	5.945	5.939	0.006	93	26033	0.4000	0.3846	
28 2-Methyl-2-propanol	59	5.950	5.940	0.010	96	62133	0.4000	0.3944	
30 112TCTFE	101	6.010	6.005	0.005	97	76438	0.4000	0.4118	
31 Methylene Chloride	84	6.187	6.188	-0.001	97	31675	0.4000	0.4223	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.204	6.203	0.001	94	31239	0.4000	0.3865	
33 Carbon disulfide	76	6.355	6.351	0.004	99	89965	0.4000	0.3892	
34 trans-1,2-Dichloroethene	96	7.018	7.015	0.003	96	33757	0.4000	0.4030	
35 2-Methylpentane	43	7.029	7.026	0.003	96	91804	0.4000	0.3944	
36 Methyl tert-butyl ether	73	7.158	7.159	-0.001	96	89518	0.4000	0.3950	
37 1,1-Dichloroethane	63	7.449	7.449	0.000	100	66131	0.4000	0.3974	
38 Vinyl acetate	43	7.557	7.554	0.003	100	91282	0.4000	0.3663	
40 Hexane	56	8.032	8.029	0.003	67	29087	0.4000	0.3979	
39 2-Butanone (MEK)	72	8.021	8.024	-0.003	90	21620	0.4000	0.4838	
41 Isopropyl ether	45	8.210	8.211	-0.001	97	133593	0.4000	0.3966	
42 cis-1,2-Dichloroethene	96	8.452	8.452	0.000	97	36072	0.4000	0.3979	
43 Ethyl acetate	43	8.646	8.646	0.000	99	86976	0.4000	0.3817	
44 Chloroform	83	8.803	8.801	0.002	98	73500	0.4000	0.4003	
45 Tert-butyl ethyl ether	59	8.900	8.902	-0.002	97	109713	0.4000	0.3898	
46 Tetrahydrofuran	42	9.234	9.228	0.006	93	43796	0.4000	0.3800	
47 1,1,1-Trichloroethane	97	9.843	9.847	-0.004	97	71572	0.4000	0.3921	
48 1,2-Dichloroethane	62	9.957	9.964	-0.007	96	51822	0.4000	0.3947	
50 Cyclohexane	69	10.453	10.450	0.003	79	17456	0.4000	0.4282	
51 Benzene	78	10.453	10.455	-0.002	97	106238	0.4000	0.4113	
49 n-Butanol	31	10.426	10.421	0.005	85	15787	0.4000	0.3909	
52 Carbon tetrachloride	117	10.474	10.475	-0.001	96	71700	0.4000	0.4275	
53 2,3-Dimethylpentane	71	10.571	10.571	0.000	91	23502	0.4000	0.4037	
54 Thiophene	84	10.733	10.735	-0.002	97	57708	0.4000	0.4044	
55 Isooctane	57	11.219	11.217	0.002	97	182927	0.4000	0.3959	
56 n-Heptane	71	11.596	11.598	-0.002	94	36281	0.4000	0.4077	
57 1,2-Dichloropropane	63	11.688	11.691	-0.003	91	45579	0.4000	0.4107	
58 Trichloroethene	130	11.725	11.725	0.000	97	46931	0.4000	0.4012	
59 Dibromomethane	93	11.812	11.814	-0.002	95	43354	0.4000	0.3958	
60 Dichlorobromomethane	83	11.952	11.959	-0.007	99	66737	0.4000	0.3882	
61 1,4-Dioxane	88	11.995	11.990	0.005	91	15329	0.4000	0.3904	
62 Methyl methacrylate	41	12.049	12.051	-0.002	91	53195	0.4000	0.3793	
63 Methylcyclohexane	83	12.497	12.497	0.000	93	64429	0.4000	0.4064	
64 4-Methyl-2-pentanone (MIBK)	43	12.923	12.925	-0.002	98	102844	0.4000	0.4073	
65 cis-1,3-Dichloropropene	75	12.976	12.980	-0.004	96	55751	0.4000	0.3799	
66 trans-1,3-Dichloropropene	75	13.699	13.697	0.002	98	45605	0.4000	0.3632	
67 Toluene	91	13.818	13.819	-0.001	92	134277	0.4000	0.4086	
68 1,1,2-Trichloroethane	83	13.899	13.902	-0.003	96	41582	0.4000	0.4118	
69 2-Hexanone	58	14.292	14.296	-0.004	90	41832	0.4000	0.3847	
70 n-Octane	85	14.513	14.514	-0.001	96	37532	0.4000	0.3972	
71 Chlorodibromomethane	129	14.616	14.617	-0.001	98	63352	0.4000	0.3770	
72 Ethylene Dibromide	107	14.912	14.916	-0.004	98	67612	0.4000	0.3938	
73 Tetrachloroethene	129	14.982	14.985	-0.003	97	48688	0.4000	0.4004	
74 Chlorobenzene	112	15.872	15.873	-0.001	94	101686	0.4000	0.4177	
75 2,3-Dimethylheptane	43	15.878	15.880	-0.002	95	160841	0.4000	0.4281	
76 Ethylbenzene	91	16.158	16.160	-0.002	98	165951	0.4000	0.3936	
77 m-Xylene & p-Xylene	91	16.320	16.322	-0.002	98	264584	0.8000	0.7947	
78 n-Nonane	57	16.735	16.735	0.000	96	90178	0.4000	0.4145	
79 Bromoform	173	16.783	16.782	0.001	97	58462	0.4000	0.3341	
80 Styrene	104	16.794	16.794	0.000	99	86451	0.4000	0.3942	
81 o-Xylene	91	16.854	16.852	0.002	99	141714	0.4000	0.4054	
82 1,1,2,2-Tetrachloroethane	83	17.183	17.183	-0.001	99	97345	0.4000	0.3954	
83 1,2,3-Trichloropropane	110	17.344	17.344	0.000	97	24757	0.4000	0.3979	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Isopropylbenzene	105	17.441	17.441	0.000	96	184114	0.4000	0.4039	
85 N-Propylbenzene	120	17.975	17.978	-0.003	99	51052	0.4000	0.3989	
86 2-Chlorotoluene	126	18.024	18.026	-0.002	97	48461	0.4000	0.4145	
88 4-Ethyltoluene	105	18.126	18.127	-0.001	99	188159	0.4000	0.3994	
87 1,3,5-Trimethylbenzene	120	18.196	18.199	-0.003	92	78281	0.4000	0.4099	
89 Alpha Methyl Styrene	118	18.428	18.430	-0.002	90	65760	0.4000	0.3542	
90 n-Decane	57	18.477	18.478	-0.001	86	124082	0.4000	0.4274	
91 tert-Butylbenzene	119	18.622	18.623	-0.001	95	174280	0.4000	0.4218	
92 1,2,4-Trimethylbenzene	105	18.633	18.636	-0.003	96	167300	0.4000	0.4162	
93 sec-Butylbenzene	105	18.886	18.888	-0.002	99	238270	0.4000	0.4123	
94 1,3-Dichlorobenzene	146	18.908	18.909	-0.001	98	107185	0.4000	0.4021	
95 Benzyl chloride	91	18.984	18.984	0.000	98	97335	0.4000	0.3454	
96 1,4-Dichlorobenzene	146	18.994	18.996	-0.002	93	103743	0.4000	0.3992	
97 4-Isopropyltoluene	119	19.048	19.049	-0.001	97	194995	0.4000	0.4074	
98 1,2,3-Trimethylbenzene	105	19.102	19.103	-0.001	99	168405	0.4000	0.4058	
99 Butylcyclohexane	83	19.151	19.153	-0.002	92	138813	0.4000	0.4230	
100 2,3-Dihydroindene	117	19.350	19.351	-0.001	94	157647	0.4000	0.4150	
101 1,2-Dichlorobenzene	146	19.350	19.353	-0.003	97	110053	0.4000	0.4142	
103 n-Butylbenzene	91	19.480	19.480	0.000	95	197877	0.4000	0.4146	
102 Indene	116	19.480	19.481	-0.001	77	125058	0.4000	0.4030	
104 Undecane	57	19.776	19.779	-0.003	95	142150	0.4000	0.4205	
105 1,2-Dibromo-3-Chloropropane	157	19.954	19.955	-0.001	95	45884	0.4000	0.3474	
106 1,2,4,5-Tetramethylbenzene	119	20.229	20.230	-0.001	97	186510	0.4000	0.3970	
107 Dodecane	57	20.839	20.854	-0.015	93	142011	0.4000	0.4075	
108 1,2,4-Trichlorobenzene	180	21.060	21.058	0.002	94	89630	0.4000	0.3548	
109 Naphthalene	128	21.205	21.205	0.000	99	187640	0.4000	0.3683	
110 Hexachlorobutadiene	225	21.416	21.415	0.001	96	109755	0.4000	0.3846	
111 1,2,3-Trichlorobenzene	180	21.491	21.489	0.002	96	94653	0.4000	0.3755	
112 2-Methylnaphthalene	142	22.106	22.104	0.002	99	45840	0.4000	0.3351	
113 1-Methylnaphthalene	142	22.230	22.231	-0.001	99	61816	0.4000	0.4149	
A 116 C8 Range	1	14.513	(14.465-14.562)		0	409211	0.4000	0.4050	
S 117 Xylenes, Total	100				0		1.20	1.20	
S 118 1,2-Dichloroethene, Total	1				0		0.8000	0.8009	

QC Flag Legend

Processing Flags

Reagents:

40L5DQP_00026	Amount Added: 200.00	Units: mL	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

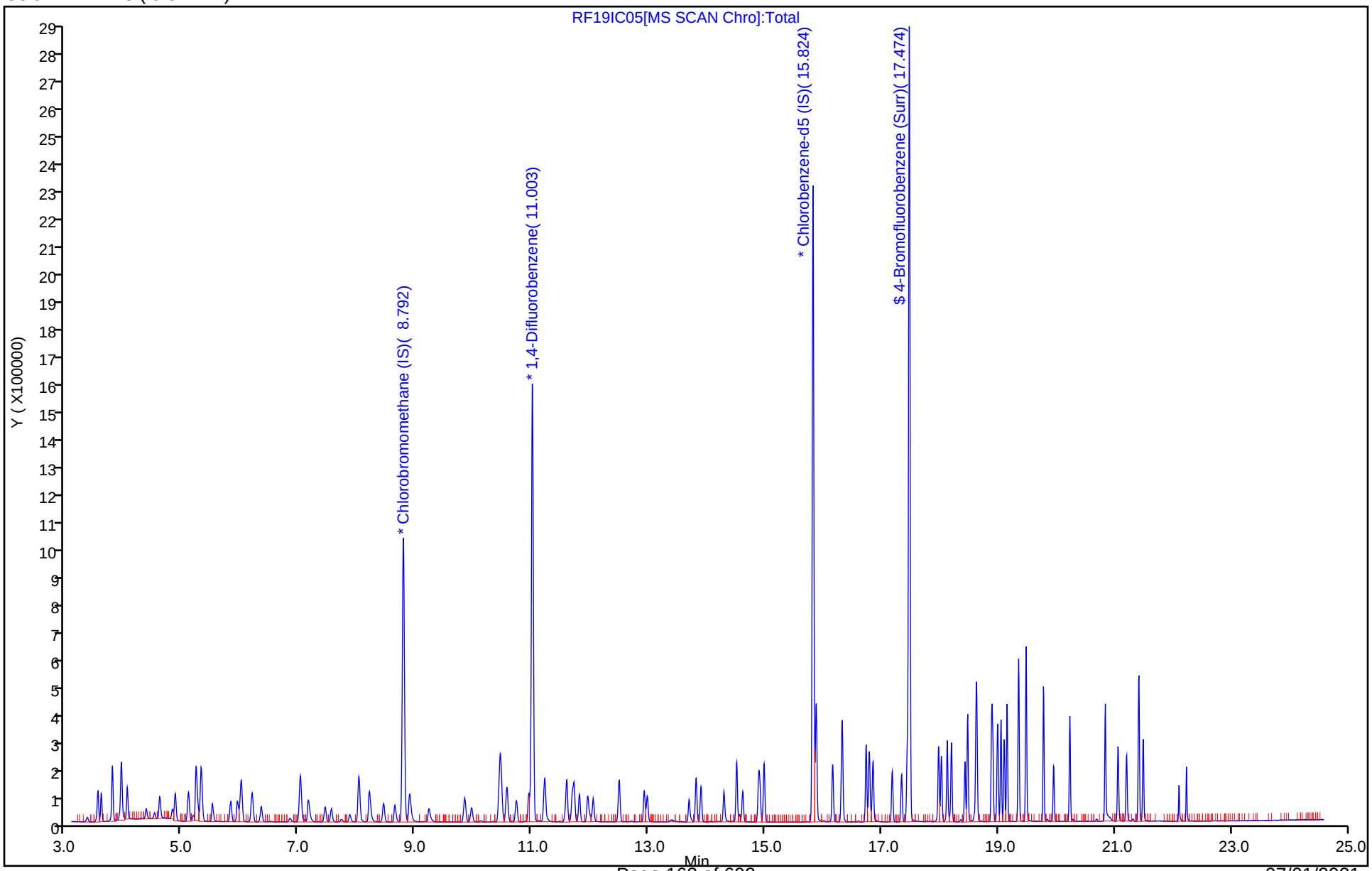
Report Date: 21-Jun-2021 11:40:56 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC05.D

Injection Date:	19-Jun-2021 17:20:30	Instrument ID:	MR	Operator ID:	HMT
Lims ID:	IC L5			Worklist Smp#:	14
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

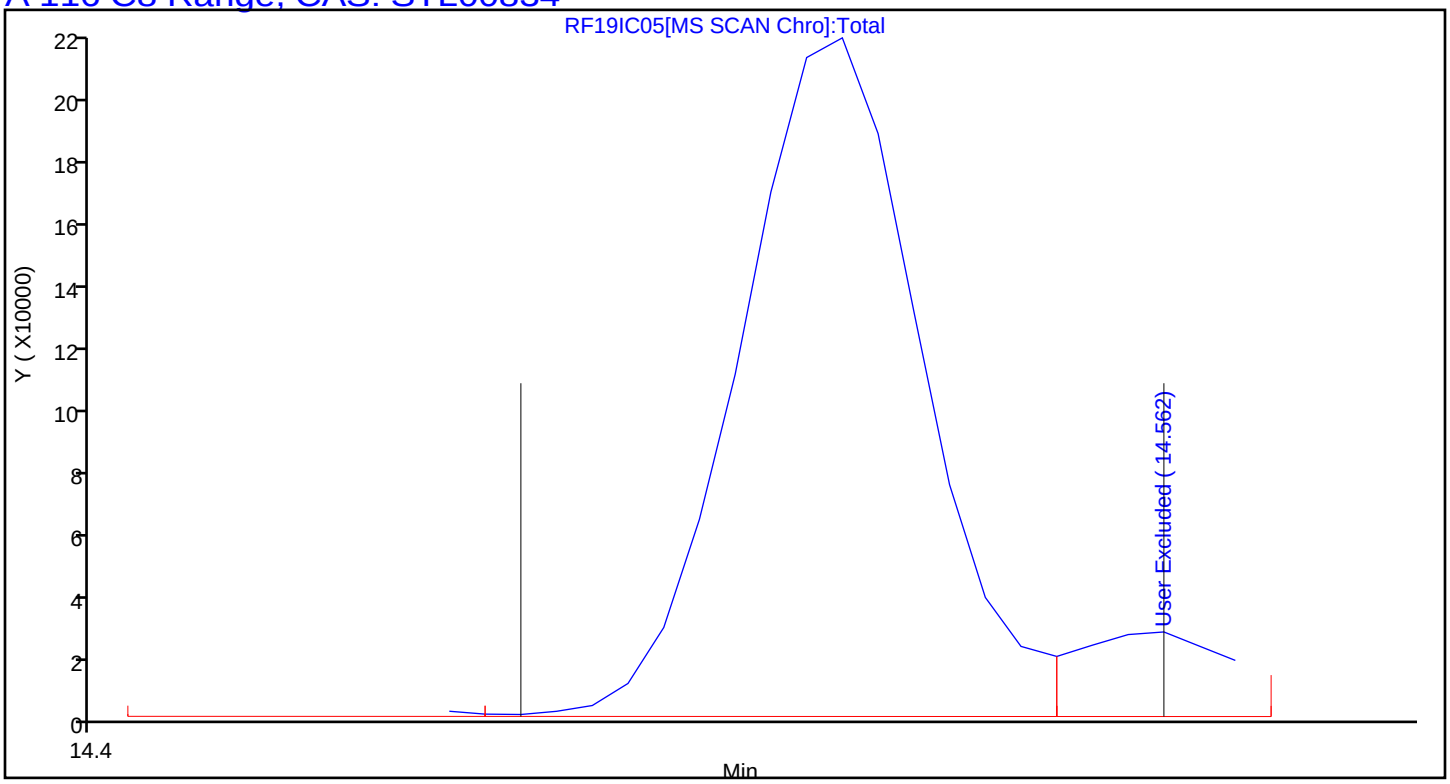


Report Date: 21-Jun-2021 11:40:56 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC05.D				
Injection Date:	19-Jun-2021 17:20:30	Instrument ID:	MR		
Lims ID:	IC L5				
Client ID:					
Operator ID:	HMT	ALS Bottle#:	3	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 116 C8 Range, CAS: STL00834



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC06.D
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 19-Jun-2021 18:05:30 ALS Bottle#: 4 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019646-015
Misc. Info.: 387798
Operator ID: HMT Instrument ID: MR
Sublist: chrom-MR_TO15*sub16

Method: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\MR_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Jun-2021 11:41:01 Calib Date: 19-Jun-2021 18:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1626

First Level Reviewer: tajh Date: 21-Jun-2021 08:39:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.787	8.792	-0.005	98	319729	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.003	11.009	-0.006	95	1510819	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	15.824	15.825	-0.001	88	1438027	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.474	17.475	-0.001	96	1043163	4.64	4.64	
6 Chlorodifluoromethane	51	3.540	3.540	0.000	97	147714	1.00	0.9641	
7 Propene	41	3.551	3.552	-0.001	99	80465	1.00	0.9534	
8 Dichlorodifluoromethane	85	3.605	3.605	0.000	100	230699	1.00	0.9880	
9 Chloromethane	52	3.788	3.787	0.001	56	21001	1.00	0.8869	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.793	3.795	-0.002	89	138964	1.00	0.9673	
11 Acetaldehyde	44	3.939	3.945	-0.006	99	164322	5.00	4.40	
12 Vinyl chloride	62	3.961	3.961	-0.001	99	67138	1.00	0.9538	
13 Butane	43	4.047	4.050	-0.003	84	109996	1.00	0.9771	
14 Butadiene	54	4.047	4.050	-0.003	68	55690	1.00	0.9837	
15 Bromomethane	94	4.376	4.376	0.000	97	60524	1.00	0.9450	
16 Chloroethane	64	4.516	4.520	-0.004	87	27038	1.00	0.9405	
17 Ethanol	31	4.597	4.610	-0.013	97	171753	5.00	4.89	
18 Vinyl bromide	106	4.823	4.824	-0.001	99	66921	1.00	0.9265	
19 2-Methylbutane	43	4.866	4.872	-0.006	94	106292	1.00	0.9260	
20 Trichlorofluoromethane	101	5.093	5.099	-0.006	99	219221	1.00	0.9746	
21 Acrolein	56	5.104	5.114	-0.010	94	26108	1.00	0.9017	
22 Acetonitrile	40	5.168	5.182	-0.014	100	39082	1.00	0.9463	
23 Acetone	58	5.222	5.233	-0.011	98	151562	3.00	2.55	
24 Isopropyl alcohol	45	5.298	5.315	-0.017	97	359505	3.00	2.76	
25 Pentane	72	5.319	5.322	-0.003	95	11242	1.00	0.9805	
26 Ethyl ether	31	5.497	5.507	-0.010	94	99001	1.00	0.9427	
27 1,1-Dichloroethene	96	5.821	5.825	-0.004	95	81488	1.00	0.9637	
29 Acrylonitrile	53	5.929	5.939	-0.010	94	63301	1.00	0.9384	
28 2-Methyl-2-propanol	59	5.918	5.940	-0.022	97	144220	1.00	0.9186	
30 112TCTFE	101	5.999	6.005	-0.006	97	183451	1.00	0.99	
31 Methylene Chloride	84	6.182	6.188	-0.006	97	75390	1.00	1.01	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.198	6.203	-0.005	94	71438	1.00	0.8871	
33 Carbon disulfide	76	6.344	6.351	-0.007	99	228591	1.00	0.99	
34 trans-1,2-Dichloroethene	96	7.007	7.015	-0.008	96	82639	1.00	0.99	
35 2-Methylpentane	43	7.023	7.026	-0.003	96	226154	1.00	0.9750	
36 Methyl tert-butyl ether	73	7.142	7.159	-0.017	96	215910	1.00	0.9560	
37 1,1-Dichloroethane	63	7.444	7.449	-0.005	100	158461	1.00	0.9556	
38 Vinyl acetate	43	7.546	7.554	-0.008	100	231318	1.00	0.9316	
39 2-Butanone (MEK)	72	8.016	8.024	-0.008	95	41552	1.00	0.9332	
40 Hexane	56	8.021	8.029	-0.008	75	71031	1.00	0.9752	
41 Isopropyl ether	45	8.188	8.211	-0.023	97	323609	1.00	0.9642	
42 cis-1,2-Dichloroethene	96	8.447	8.452	-0.005	97	86684	1.00	0.9595	
43 Ethyl acetate	43	8.636	8.646	-0.010	99	212677	1.00	0.9367	
44 Chloroform	83	8.797	8.801	-0.004	99	177534	1.00	0.9703	
45 Tert-butyl ethyl ether	59	8.884	8.902	-0.018	97	273050	1.00	0.9736	
46 Tetrahydrofuran	42	9.207	9.228	-0.021	94	108391	1.00	0.9437	
47 1,1,1-Trichloroethane	97	9.844	9.847	-0.003	97	174387	1.00	0.9587	
48 1,2-Dichloroethane	62	9.957	9.964	-0.007	97	126805	1.00	0.9727	
49 n-Butanol	31	10.404	10.421	-0.017	62	34434	1.00	0.8589	
51 Benzene	78	10.453	10.455	-0.002	98	259654	1.00	1.01	
50 Cyclohexane	69	10.448	10.450	-0.002	90	41607	1.00	1.03	
52 Carbon tetrachloride	117	10.469	10.475	-0.006	97	138361	1.00	0.8308	
53 2,3-Dimethylpentane	71	10.566	10.571	-0.005	93	59412	1.00	1.03	
54 Thiophene	84	10.733	10.735	-0.002	97	144410	1.00	1.02	
55 Isooctane	57	11.213	11.217	-0.004	97	460514	1.00	1.00	
56 n-Heptane	71	11.596	11.598	-0.002	94	89145	1.00	1.01	
57 1,2-Dichloropropane	63	11.688	11.691	-0.003	92	112023	1.00	1.02	
58 Trichloroethene	130	11.720	11.725	-0.005	95	114954	1.00	0.9899	
59 Dibromomethane	93	11.812	11.814	-0.002	96	109388	1.00	1.01	
60 Dichlorobromomethane	83	11.957	11.959	-0.002	99	169486	1.00	0.99	
61 1,4-Dioxane	88	11.979	11.990	-0.011	92	38059	1.00	0.9762	
62 Methyl methacrylate	41	12.044	12.051	-0.007	91	127867	1.00	0.9183	
63 Methylcyclohexane	83	12.497	12.497	0.000	93	160045	1.00	1.02	
64 4-Methyl-2-pentanone (MIBK)	43	12.912	12.925	-0.013	98	243654	1.00	0.9719	
65 cis-1,3-Dichloropropene	75	12.977	12.980	-0.003	96	144713	1.00	0.99	
66 trans-1,3-Dichloropropene	75	13.694	13.697	-0.003	99	120449	1.00	0.9523	
67 Toluene	91	13.818	13.819	-0.001	93	335269	1.00	1.01	
68 1,1,2-Trichloroethane	83	13.899	13.902	-0.003	96	101874	1.00	1.00	
69 2-Hexanone	58	14.287	14.296	-0.009	91	106725	1.00	0.9744	
70 n-Octane	85	14.513	14.514	-0.001	96	97657	1.00	1.03	
71 Chlorodibromomethane	129	14.616	14.617	-0.001	99	167240	1.00	0.9880	
72 Ethylene Dibromide	107	14.912	14.916	-0.004	98	172560	1.00	1.00	
73 Tetrachloroethene	129	14.983	14.985	-0.003	96	122389	1.00	1.00	
74 Chlorobenzene	112	15.872	15.873	-0.001	93	251493	1.00	1.03	
75 2,3-Dimethylheptane	43	15.878	15.880	-0.002	95	391851	1.00	1.04	
76 Ethylbenzene	91	16.158	16.160	-0.002	98	428647	1.00	1.01	
77 m-Xylene & p-Xylene	91	16.320	16.322	-0.002	98	672305	2.00	2.00	
78 n-Nonane	57	16.735	16.735	0.000	96	232371	1.00	1.06	
79 Bromoform	173	16.784	16.782	0.002	97	167629	1.00	0.9510	
80 Styrene	104	16.789	16.794	-0.005	99	235517	1.00	1.07	
81 o-Xylene	91	16.854	16.852	0.002	98	355356	1.00	1.01	
82 1,1,2,2-Tetrachloroethane	83	17.183	17.183	0.000	98	252401	1.00	1.02	
83 1,2,3-Trichloropropane	110	17.344	17.344	0.000	97	63444	1.00	1.01	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Isopropylbenzene	105	17.441	17.441	0.000	96	472083	1.00	1.03	
85 N-Propylbenzene	120	17.975	17.978	-0.003	99	133760	1.00	1.04	
86 2-Chlorotoluene	126	18.024	18.026	-0.002	98	121070	1.00	1.03	
88 4-Ethyltoluene	105	18.126	18.127	-0.001	98	481113	1.00	1.01	
87 1,3,5-Trimethylbenzene	120	18.196	18.199	-0.003	92	196605	1.00	1.02	
89 Alpha Methyl Styrene	118	18.428	18.430	-0.002	89	189471	1.00	1.01	
90 n-Decane	57	18.477	18.478	-0.001	87	317493	1.00	1.09	
91 tert-Butylbenzene	119	18.622	18.623	-0.001	91	439303	1.00	1.06	
92 1,2,4-Trimethylbenzene	105	18.633	18.636	-0.003	96	428115	1.00	1.06	
93 sec-Butylbenzene	105	18.887	18.888	-0.001	99	609730	1.00	1.05	
94 1,3-Dichlorobenzene	146	18.908	18.909	-0.001	97	274567	1.00	1.02	
95 Benzyl chloride	91	18.984	18.984	0.000	97	285054	1.00	1.00	
96 1,4-Dichlorobenzene	146	18.994	18.996	-0.002	94	261718	1.00	1.00	
97 4-Isopropyltoluene	119	19.048	19.049	-0.001	97	510696	1.00	1.06	
98 1,2,3-Trimethylbenzene	105	19.102	19.103	-0.001	99	437334	1.00	1.05	
99 Butylcyclohexane	83	19.151	19.153	-0.002	91	352942	1.00	1.07	
100 2,3-Dihydroindene	117	19.350	19.351	-0.001	94	407949	1.00	1.07	
101 1,2-Dichlorobenzene	146	19.350	19.353	-0.003	95	275800	1.00	1.03	
103 n-Butylbenzene	91	19.480	19.480	0.000	95	521360	1.00	1.08	
102 Indene	116	19.480	19.481	-0.001	77	342488	1.00	1.10	
104 Undecane	57	19.776	19.779	-0.003	96	381085	1.00	1.12	
105 1,2-Dibromo-3-Chloropropane	157	19.954	19.955	-0.001	96	133457	1.00	1.00	
106 1,2,4,5-Tetramethylbenzene	119	20.229	20.230	-0.001	96	499948	1.00	1.06	
107 Dodecane	57	20.839	20.854	-0.015	95	408456	1.00	1.16	
108 1,2,4-Trichlorobenzene	180	21.060	21.058	0.002	94	240084	1.00	0.9437	
109 Naphthalene	128	21.205	21.205	0.000	99	516404	1.00	1.05	
110 Hexachlorobutadiene	225	21.416	21.415	0.001	96	282827	1.00	0.9841	
111 1,2,3-Trichlorobenzene	180	21.491	21.489	0.002	95	250844	1.00	0.9879	
112 2-Methylnaphthalene	142	22.100	22.104	-0.004	99	147659	1.00	1.07	
113 1-Methylnaphthalene	142	22.230	22.231	-0.001	99	178316	1.00	1.19	
A 116 C8 Range	1	14.511	(14.465-14.573)		0	1027814	1.00	1.02	
S 117 Xylenes, Total	100				0		3.00	3.01	
S 118 1,2-Dichloroethene, Total	1				0		2.00	1.95	

QC Flag Legend

Processing Flags

Reagents:

40L6DQP_00025	Amount Added: 200.00	Units: mL	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

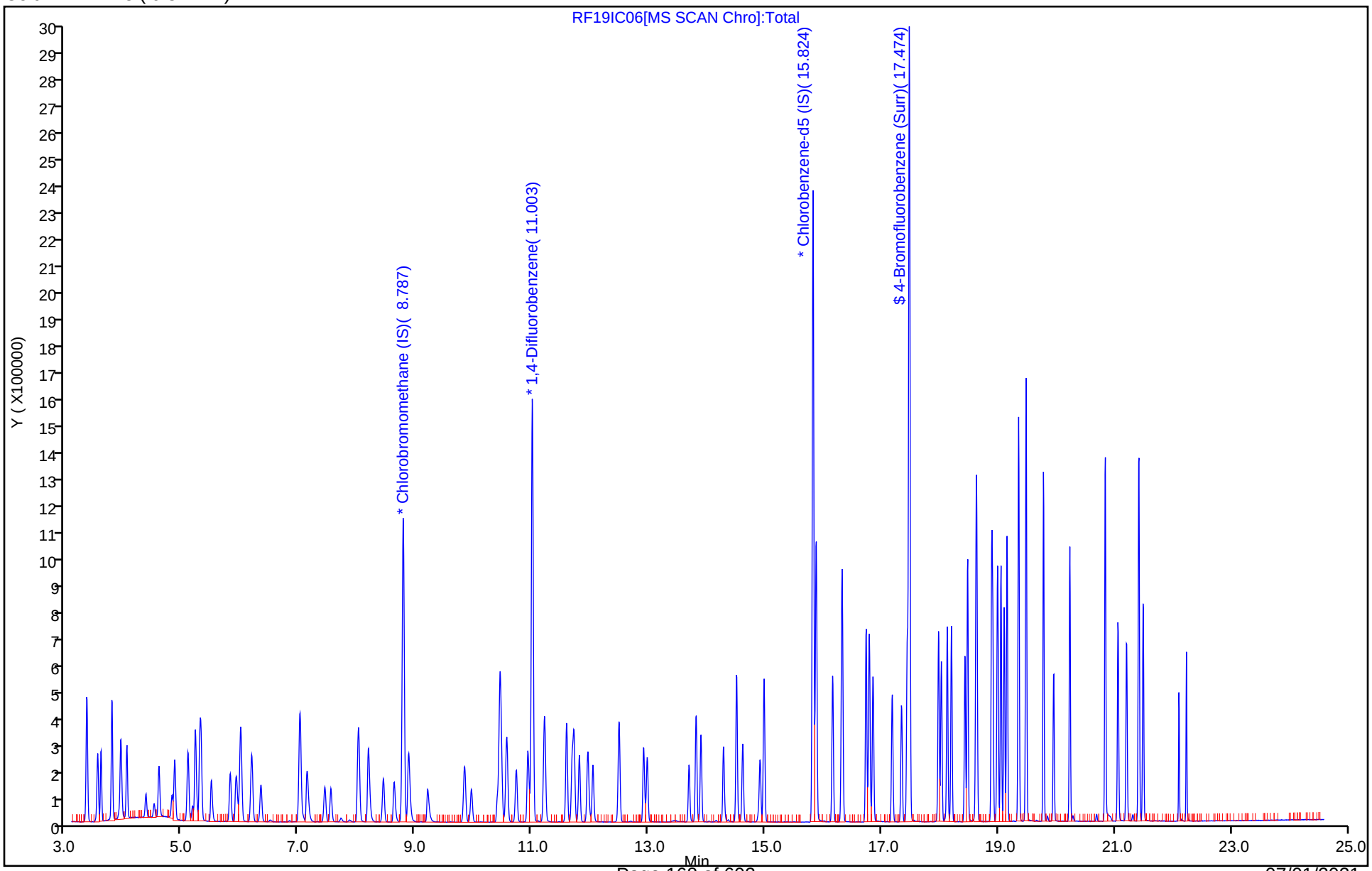
Report Date: 21-Jun-2021 11:41:03 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC06.D

Injection Date:	19-Jun-2021 18:05:30	Instrument ID:	MR	Operator ID:	HMT
Lims ID:	IC L6			Worklist Smp#:	15
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

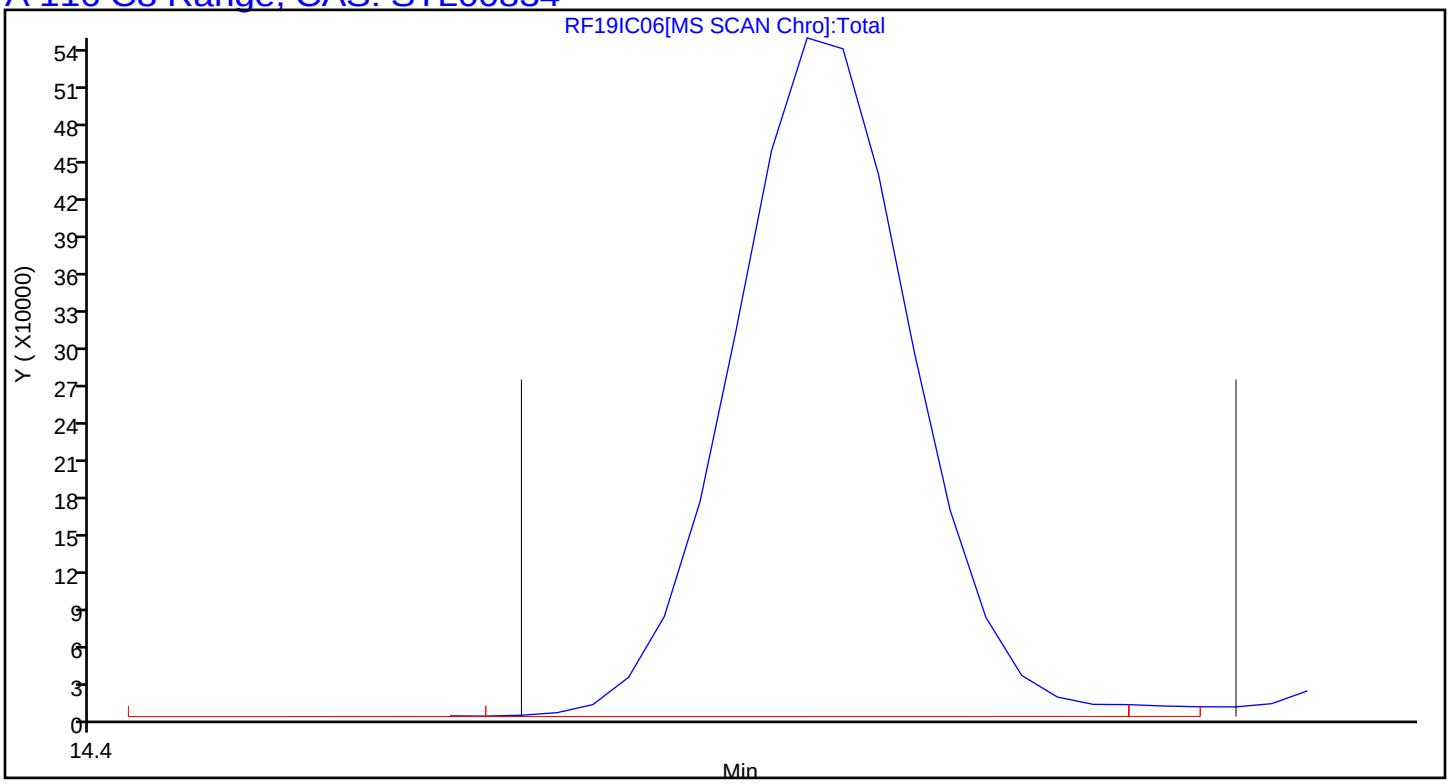


Report Date: 21-Jun-2021 11:41:03 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC06.D				
Injection Date:	19-Jun-2021 18:05:30	Instrument ID:	MR		
Lims ID:	IC L6				
Client ID:					
Operator ID:	HMT	ALS Bottle#:	4	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 116 C8 Range, CAS: STL00834



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D
Lims ID: ICIS L7
Client ID:
Sample Type: ICIS Calib Level: 7
Inject. Date: 19-Jun-2021 18:49:30 ALS Bottle#: 5 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019646-016
Misc. Info.: 387537
Operator ID: HMT Instrument ID: MR
Sublist: chrom-MR_TO15*sub16

Method: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\MR_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Jun-2021 11:41:09 Calib Date: 19-Jun-2021 18:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1626

First Level Reviewer: tajh Date: 21-Jun-2021 08:38:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.792	8.792	0.000	98	324554	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.008	11.009	-0.001	95	1539588	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	15.824	15.825	-0.001	88	1474901	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.474	17.475	-0.001	94	1075672	4.64	4.67	
6 Chlorodifluoromethane	51	3.540	3.540	0.000	97	298163	2.00	1.92	
7 Propene	41	3.551	3.552	-0.002	98	163542	2.00	1.91	
8 Dichlorodifluoromethane	85	3.604	3.605	-0.001	100	472117	2.00	1.99	
9 Chloromethane	52	3.788	3.787	0.001	98	41287	2.00	1.72	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.793	3.795	-0.002	89	275146	2.00	1.89	
11 Acetaldehyde	44	3.939	3.945	-0.006	99	279855	10.0	8.68	
12 Vinyl chloride	62	3.960	3.961	-0.001	99	134550	2.00	1.88	
13 Butane	43	4.047	4.050	-0.003	85	221672	2.00	1.94	
14 Butadiene	54	4.047	4.050	-0.003	68	111774	2.00	1.95	
15 Bromomethane	94	4.376	4.376	0.000	98	124421	2.00	1.91	
16 Chloroethane	64	4.516	4.520	-0.004	86	53869	2.00	1.85	
17 Ethanol	31	4.597	4.610	-0.013	97	354615	10.0	9.95	
18 Vinyl bromide	106	4.823	4.824	-0.001	99	136295	2.00	1.86	
19 2-Methylbutane	43	4.866	4.872	-0.006	94	211442	2.00	1.81	
20 Trichlorofluoromethane	101	5.093	5.099	-0.006	99	441052	2.00	1.93	
21 Acrolein	56	5.109	5.114	-0.005	94	54204	2.00	1.84	
22 Acetonitrile	40	5.174	5.182	-0.008	99	77994	2.00	1.86	
23 Acetone	58	5.222	5.233	-0.011	98	261502	6.00	5.30	
24 Isopropyl alcohol	45	5.298	5.315	-0.017	97	792084	6.00	5.99	
25 Pentane	72	5.319	5.322	-0.003	94	23399	2.00	2.01	
26 Ethyl ether	31	5.492	5.507	-0.015	93	201799	2.00	1.89	
27 1,1-Dichloroethene	96	5.821	5.825	-0.004	95	166665	2.00	1.94	
28 2-Methyl-2-propanol	59	5.912	5.940	-0.028	97	314588	2.00	1.97	
29 Acrylonitrile	53	5.929	5.939	-0.010	94	132751	2.00	1.94	
30 112TCTFE	101	5.999	6.005	-0.006	97	366650	2.00	1.95	
31 Methylene Chloride	84	6.187	6.188	-0.001	97	150696	2.00	1.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.198	6.203	-0.005	94	155615	2.00	1.90	
33 Carbon disulfide	76	6.349	6.351	-0.002	99	465636	2.00	1.99	
34 trans-1,2-Dichloroethene	96	7.012	7.015	-0.003	95	165258	2.00	1.95	
35 2-Methylpentane	43	7.023	7.026	-0.003	96	455939	2.00	1.94	
36 Methyl tert-butyl ether	73	7.131	7.159	-0.028	96	444783	2.00	1.94	
37 1,1-Dichloroethane	63	7.444	7.449	-0.005	100	327097	2.00	1.94	
38 Vinyl acetate	43	7.546	7.554	-0.008	100	488799	2.00	1.94	
39 2-Butanone (MEK)	72	8.005	8.024	-0.019	97	81762	2.00	1.81	
40 Hexane	56	8.026	8.029	-0.003	89	143544	2.00	1.94	
41 Isopropyl ether	45	8.188	8.211	-0.023	97	666870	2.00	1.96	
42 cis-1,2-Dichloroethene	96	8.447	8.452	-0.005	97	175828	2.00	1.92	
43 Ethyl acetate	43	8.630	8.646	-0.016	99	442773	2.00	1.92	
44 Chloroform	83	8.797	8.801	-0.004	98	358989	2.00	1.93	
45 Tert-butyl ethyl ether	59	8.878	8.902	-0.024	97	578434	2.00	2.03	
46 Tetrahydrofuran	42	9.196	9.228	-0.032	94	225708	2.00	1.94	
47 1,1,1-Trichloroethane	97	9.843	9.847	-0.004	96	362888	2.00	1.97	
48 1,2-Dichloroethane	62	9.962	9.964	-0.002	96	259743	2.00	1.96	
49 n-Butanol	31	10.393	10.421	-0.028	86	78139	2.00	1.91	
50 Cyclohexane	69	10.447	10.450	-0.003	94	84258	2.00	2.04	
51 Benzene	78	10.453	10.455	-0.002	97	515758	2.00	1.97	
52 Carbon tetrachloride	117	10.474	10.475	-0.001	97	373606	2.00	2.20	
53 2,3-Dimethylpentane	71	10.571	10.571	0.000	92	119410	2.00	2.03	
54 Thiophene	84	10.733	10.735	-0.002	97	289312	2.00	2.00	
55 Isooctane	57	11.213	11.217	-0.004	97	933389	2.00	2.00	
56 n-Heptane	71	11.596	11.598	-0.002	94	184822	2.00	2.05	
57 1,2-Dichloropropane	63	11.688	11.691	-0.003	91	223642	2.00	1.99	
58 Trichloroethene	130	11.720	11.725	-0.005	95	228031	2.00	1.93	
59 Dibromomethane	93	11.812	11.814	-0.002	95	222126	2.00	2.00	
60 Dichlorobromomethane	83	11.957	11.959	-0.002	99	361082	2.00	2.08	
61 1,4-Dioxane	88	11.968	11.990	-0.022	92	83030	2.00	2.09	
62 Methyl methacrylate	41	12.043	12.051	-0.008	91	276938	2.00	1.95	
63 Methylcyclohexane	83	12.496	12.497	-0.001	93	328646	2.00	2.05	
64 4-Methyl-2-pentanone (MIBK)	43	12.912	12.925	-0.013	98	514176	2.00	2.01	
65 cis-1,3-Dichloropropene	75	12.976	12.980	-0.004	96	310264	2.00	2.09	
66 trans-1,3-Dichloropropene	75	13.694	13.697	-0.003	99	266392	2.00	2.05	
67 Toluene	91	13.818	13.819	-0.001	93	682011	2.00	2.01	
68 1,1,2-Trichloroethane	83	13.898	13.902	-0.004	96	209922	2.00	2.01	
69 2-Hexanone	58	14.281	14.296	-0.015	90	232266	2.00	2.07	
70 n-Octane	85	14.513	14.514	-0.001	96	202167	2.00	2.07	
71 Chlorodibromomethane	129	14.616	14.617	-0.001	98	369978	2.00	2.13	
72 Ethylene Dibromide	107	14.912	14.916	-0.004	99	360945	2.00	2.03	
73 Tetrachloroethene	129	14.982	14.985	-0.003	97	247340	2.00	1.97	
74 Chlorobenzene	112	15.872	15.873	-0.001	93	500247	2.00	1.99	
75 2,3-Dimethylheptane	43	15.877	15.880	-0.003	95	781640	2.00	2.01	
76 Ethylbenzene	91	16.158	16.160	-0.002	98	880245	2.00	2.02	
77 m-Xylene & p-Xylene	91	16.320	16.322	-0.002	98	1379573	4.00	4.01	
78 n-Nonane	57	16.735	16.735	0.000	96	480400	2.00	2.14	
79 Bromoform	173	16.783	16.782	0.001	97	395465	2.00	2.19	
80 Styrene	104	16.794	16.794	0.000	99	494143	2.00	2.18	
81 o-Xylene	91	16.853	16.852	0.001	99	729935	2.00	2.02	
82 1,1,2,2-Tetrachloroethane	83	17.182	17.183	-0.001	98	528105	2.00	2.08	
83 1,2,3-Trichloropropane	110	17.344	17.344	0.000	98	130444	2.00	2.03	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Isopropylbenzene	105	17.441	17.441	0.000	95	969757	2.00	2.06	
85 N-Propylbenzene	120	17.975	17.978	-0.003	99	279334	2.00	2.11	
86 2-Chlorotoluene	126	18.024	18.026	-0.002	98	246717	2.00	2.04	
88 4-Ethyltoluene	105	18.126	18.127	-0.001	99	998141	2.00	2.05	
87 1,3,5-Trimethylbenzene	120	18.202	18.199	0.003	92	405246	2.00	2.05	
89 Alpha Methyl Styrene	118	18.428	18.430	-0.002	89	416091	2.00	2.17	
90 n-Decane	57	18.477	18.478	-0.001	87	646036	2.00	2.15	
91 tert-Butylbenzene	119	18.622	18.623	-0.001	91	894122	2.00	2.09	
92 1,2,4-Trimethylbenzene	105	18.633	18.636	-0.003	96	864881	2.00	2.08	
93 sec-Butylbenzene	105	18.886	18.888	-0.002	99	1249565	2.00	2.09	
94 1,3-Dichlorobenzene	146	18.908	18.909	-0.001	98	551262	2.00	2.00	
95 Benzyl chloride	91	18.983	18.984	-0.001	97	630948	2.00	2.17	
96 1,4-Dichlorobenzene	146	18.994	18.996	-0.002	94	540973	2.00	2.01	
97 4-Isopropyltoluene	119	19.048	19.049	-0.001	97	1039154	2.00	2.10	
98 1,2,3-Trimethylbenzene	105	19.102	19.103	-0.001	99	899411	2.00	2.10	
99 Butylcyclohexane	83	19.151	19.153	-0.002	92	716441	2.00	2.11	
100 2,3-Dihydroindene	117	19.350	19.351	-0.001	94	820413	2.00	2.09	
101 1,2-Dichlorobenzene	146	19.356	19.353	0.003	97	552595	2.00	2.01	
103 n-Butylbenzene	91	19.480	19.480	0.000	95	1066715	2.00	2.16	
102 Indene	116	19.480	19.481	-0.001	77	702015	2.00	2.19	
104 Undecane	57	19.776	19.779	-0.003	96	764853	2.00	2.19	
105 1,2-Dibromo-3-Chloropropane	157	19.954	19.955	-0.001	98	288793	2.00	2.12	
106 1,2,4,5-Tetramethylbenzene	119	20.229	20.230	-0.001	96	1020836	2.00	2.10	
107 Dodecane	57	20.838	20.854	-0.016	94	779472	2.00	2.16	
108 1,2,4-Trichlorobenzene	180	21.060	21.058	0.002	94	488023	2.00	1.87	
109 Naphthalene	128	21.205	21.205	0.000	99	1043411	2.00	2.09	
110 Hexachlorobutadiene	225	21.415	21.415	0.000	95	558980	2.00	1.90	
111 1,2,3-Trichlorobenzene	180	21.486	21.489	-0.003	96	493144	2.00	1.89	
112 2-Methylnaphthalene	142	22.100	22.104	-0.004	99	291340	2.00	2.06	
113 1-Methylnaphthalene	142	22.230	22.231	-0.001	99	329729	2.00	2.14	
A 116 C8 Range	1	14.513	(14.465-14.562)		0	2095484	2.00	2.05	
S 117 Xylenes, Total	100				0		6.00	6.03	
S 118 1,2-Dichloroethene, Total	1				0		4.00	3.87	

QC Flag Legend

Processing Flags

Reagents:

40L7DQP_00025	Amount Added: 200.00	Units: mL	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

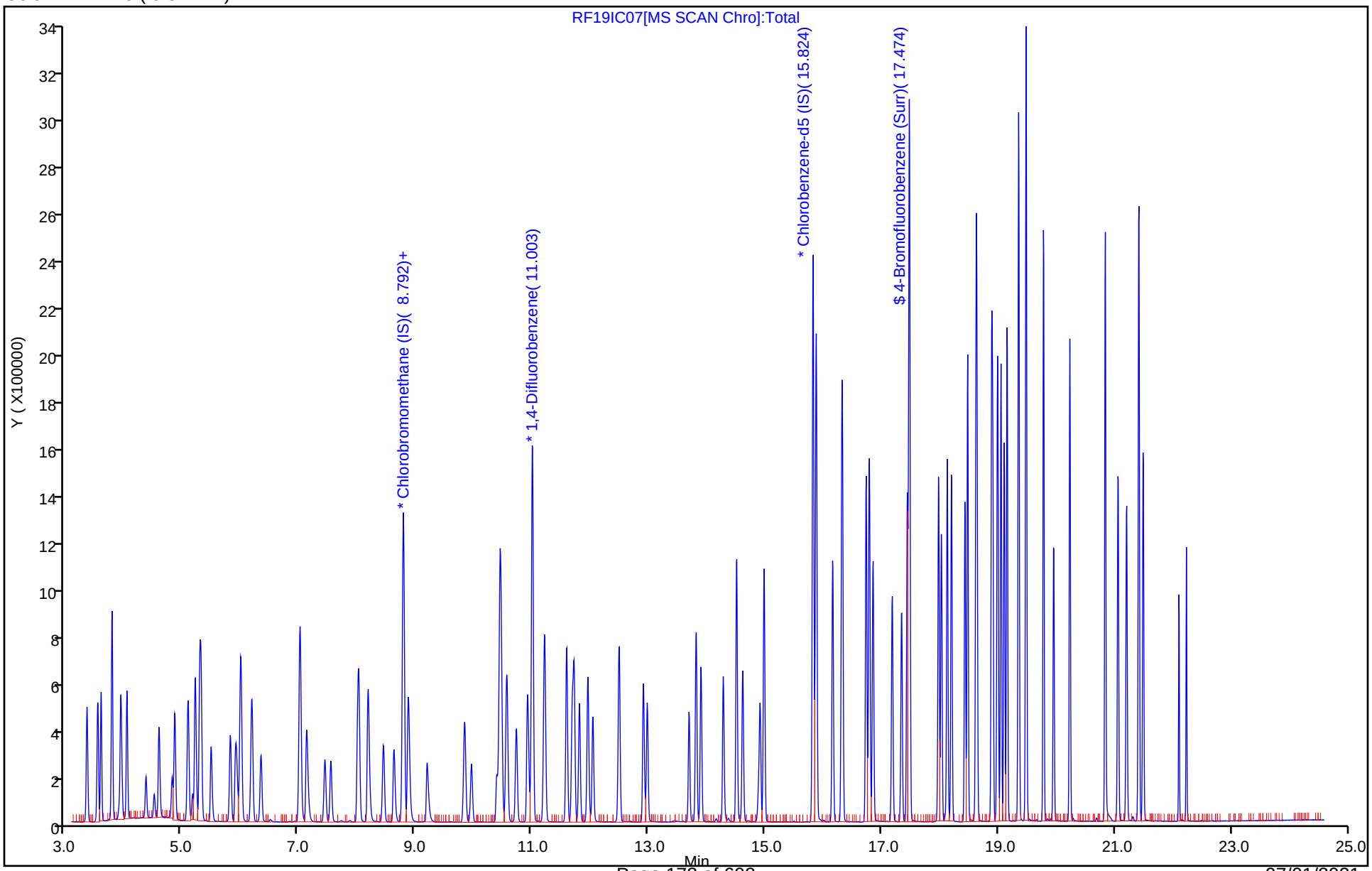
Report Date: 21-Jun-2021 11:41:10 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D

Injection Date:	19-Jun-2021 18:49:30	Instrument ID:	MR	Operator ID:	HMT
Lims ID:	ICIS L7			Worklist Smp#:	16
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

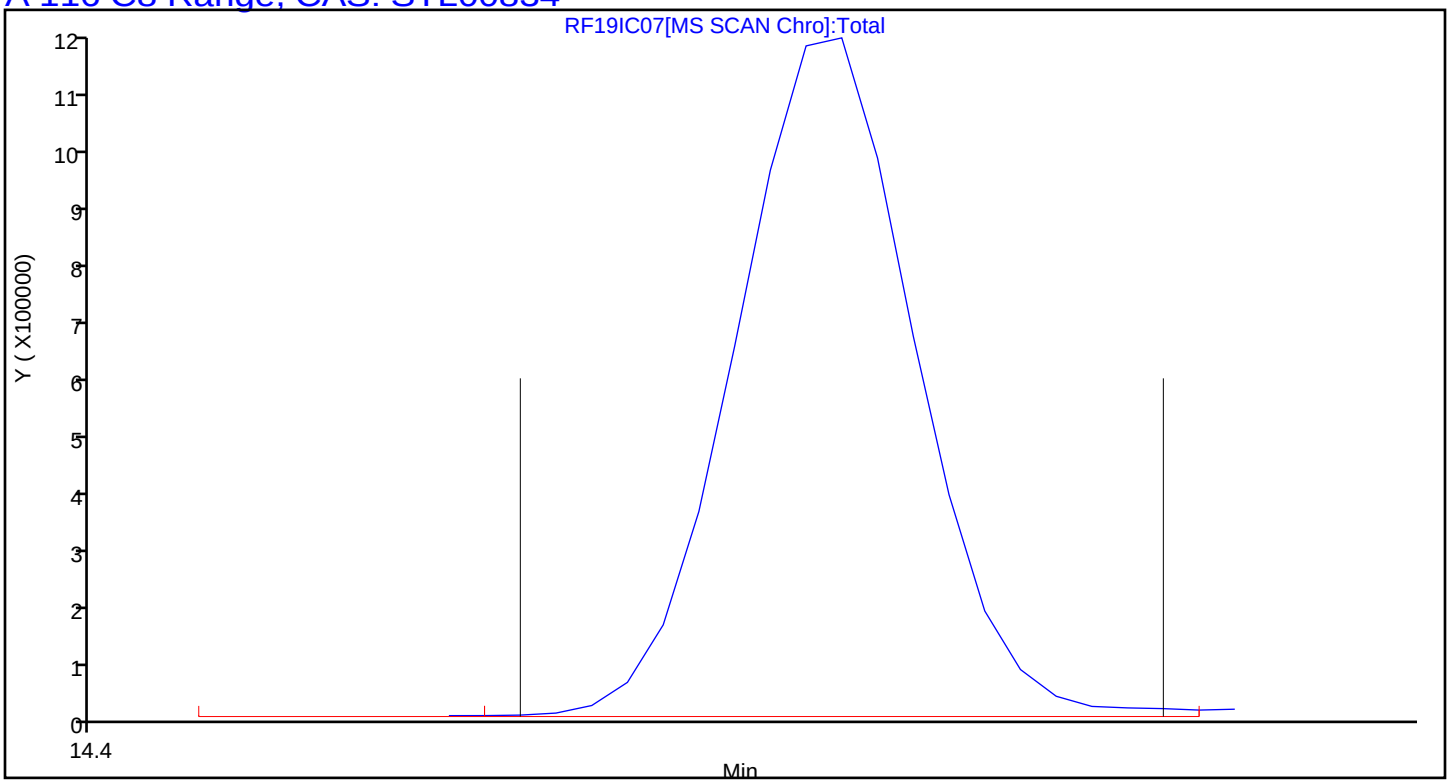


Report Date: 21-Jun-2021 11:41:10 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D				
Injection Date:	19-Jun-2021 18:49:30	Instrument ID:	MR		
Lims ID:	ICIS L7				
Client ID:					
Operator ID:	HMT	ALS Bottle#:	5	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 116 C8 Range, CAS: STL00834



Calibration / Chlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

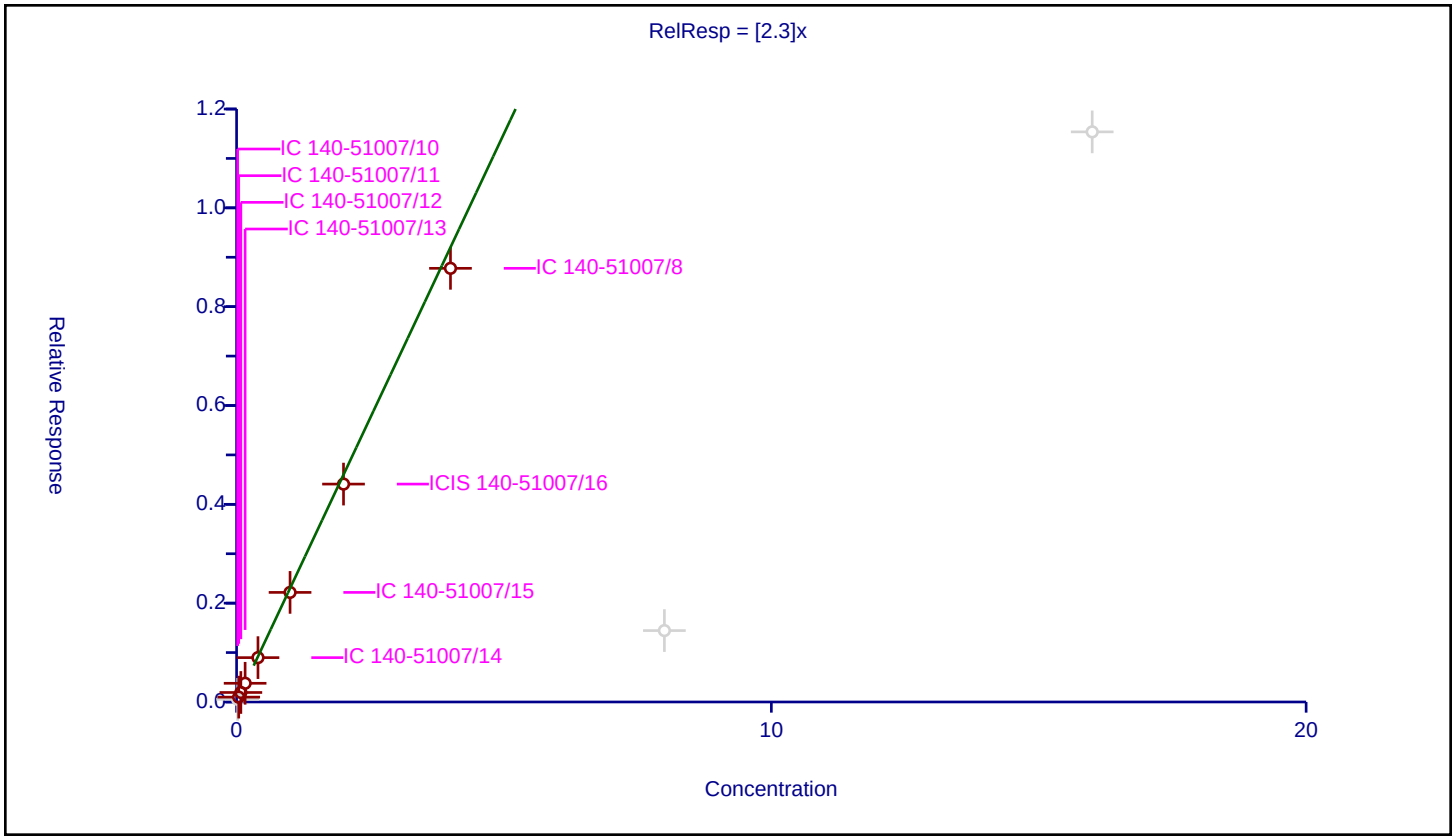
Curve Coefficients

Intercept:	0
Slope:	2.3

Error Coefficients

Standard Error:	305000
Relative Standard Error:	4.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.053567	4.8	355474.0	2.678339	N
2	IC 140-51007/11	0.04	0.098691	4.8	340455.0	2.467286	Y
3	IC 140-51007/12	0.08	0.192539	4.8	329450.0	2.406739	Y
4	IC 140-51007/13	0.16	0.378645	4.8	325806.0	2.366531	Y
5	IC 140-51007/14	0.4	0.897757	4.8	320869.0	2.244393	Y
6	IC 140-51007/15	1.0	2.217588	4.8	319729.0	2.217588	Y
7	ICIS 140-51007/16	2.0	4.40969	4.8	324554.0	2.204845	Y
8	IC 140-51007/8	4.0	8.775898	4.8	363415.0	2.193974	Y
9	IC 140-51007/6	8.0	1.445132	4.8	370463.0	0.180642	N
10	IC 140-51007/4	16.0	11.537395	4.8	356728.0	0.721087	N



Calibration / Propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

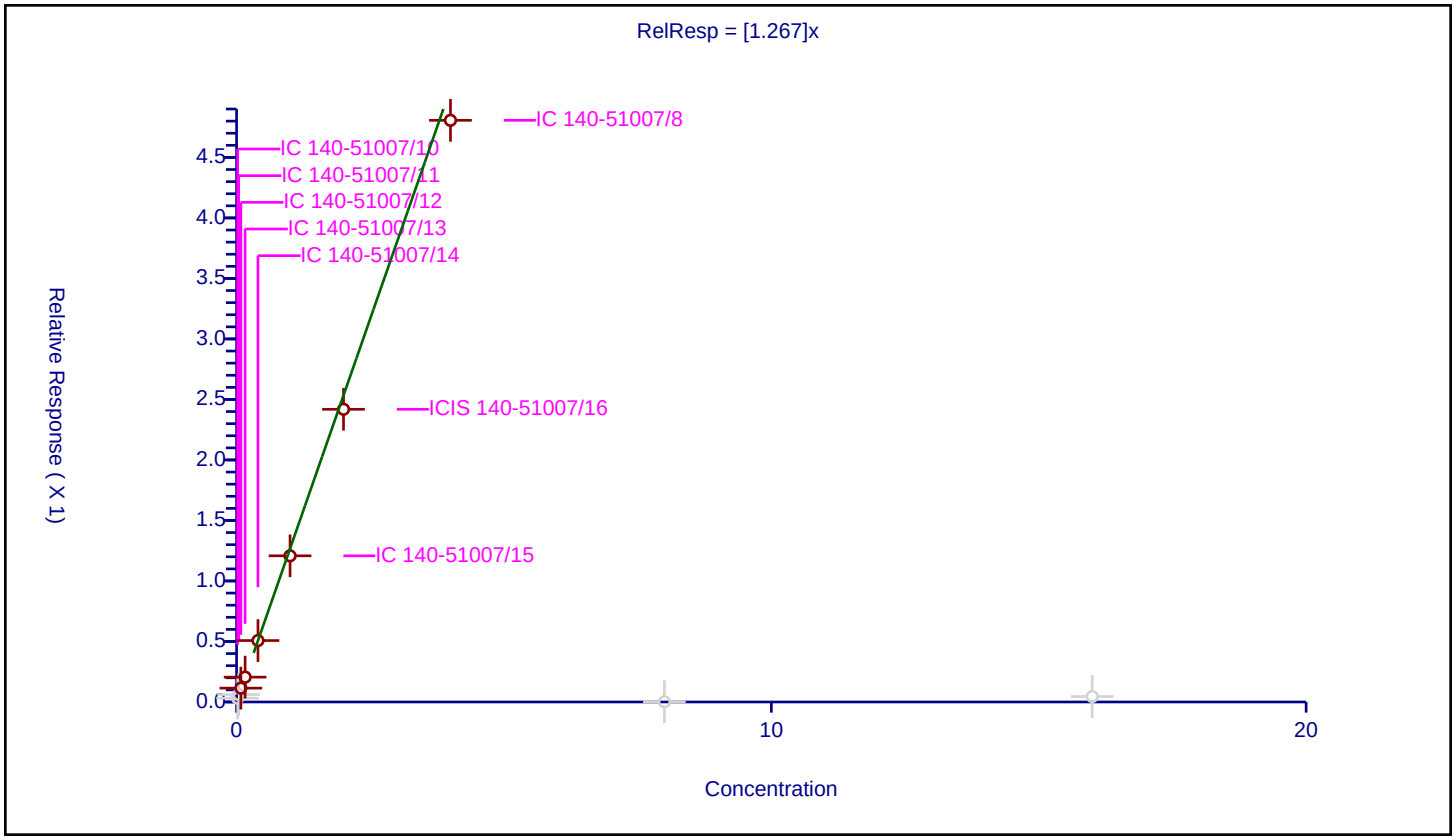
Curve Coefficients

Intercept:	0
Slope:	1.267

Error Coefficients

Standard Error:	183000
Relative Standard Error:	6.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.0318	4.8	355474.0	1.58999	N
2	IC 140-51007/11	0.04	0.061457	4.8	340455.0	1.536415	N
3	IC 140-51007/12	0.08	0.114518	4.8	329450.0	1.431477	Y
4	IC 140-51007/13	0.16	0.205256	4.8	325806.0	1.282849	Y
5	IC 140-51007/14	0.4	0.507661	4.8	320869.0	1.269153	Y
6	IC 140-51007/15	1.0	1.207998	4.8	319729.0	1.207998	Y
7	ICIS 140-51007/16	2.0	2.418709	4.8	324554.0	1.209354	Y
8	IC 140-51007/8	4.0	4.80663	4.8	363415.0	1.201658	Y
9	IC 140-51007/6	8.0	0.001892	4.8	370463.0	0.000236	N
10	IC 140-51007/4	16.0	0.045332	4.8	356728.0	0.002833	N



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

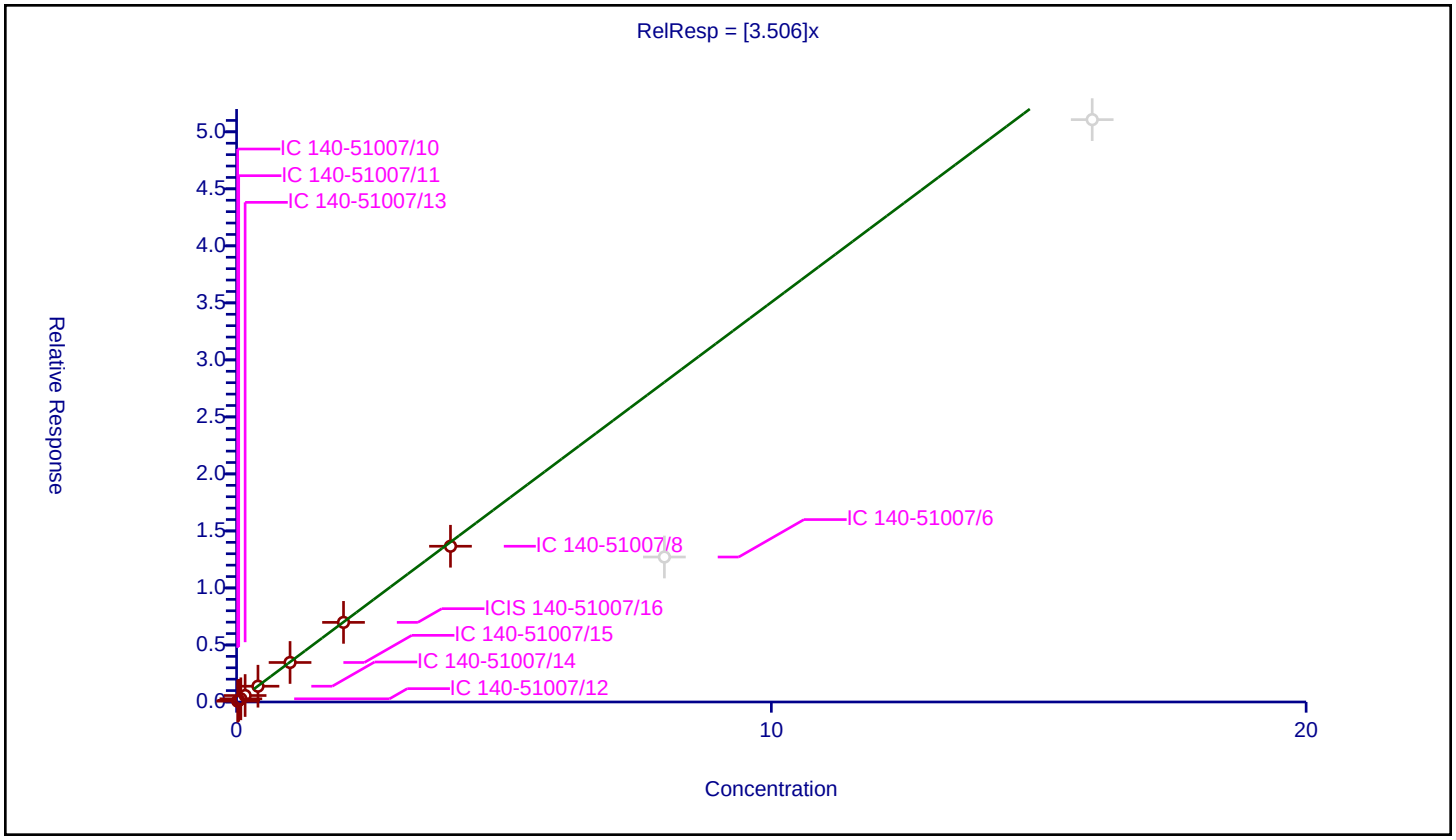
Curve Coefficients

Intercept:	0
Slope:	3.506

Error Coefficients

Standard Error:	440000
Relative Standard Error:	2.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.070864	4.8	355474.0	3.543213	Y
2	IC 140-51007/11	0.04	0.145697	4.8	340455.0	3.64242	Y
3	IC 140-51007/12	0.08	0.279535	4.8	329450.0	3.494187	Y
4	IC 140-51007/13	0.16	0.566163	4.8	325806.0	3.538517	Y
5	IC 140-51007/14	0.4	1.382905	4.8	320869.0	3.457261	Y
6	IC 140-51007/15	1.0	3.463418	4.8	319729.0	3.463418	Y
7	ICIS 140-51007/16	2.0	6.982387	4.8	324554.0	3.491193	Y
8	IC 140-51007/8	4.0	13.658699	4.8	363415.0	3.414675	Y
9	IC 140-51007/6	8.0	12.713289	4.8	370463.0	1.589161	N
10	IC 140-51007/4	16.0	51.069041	4.8	356728.0	3.191815	N



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

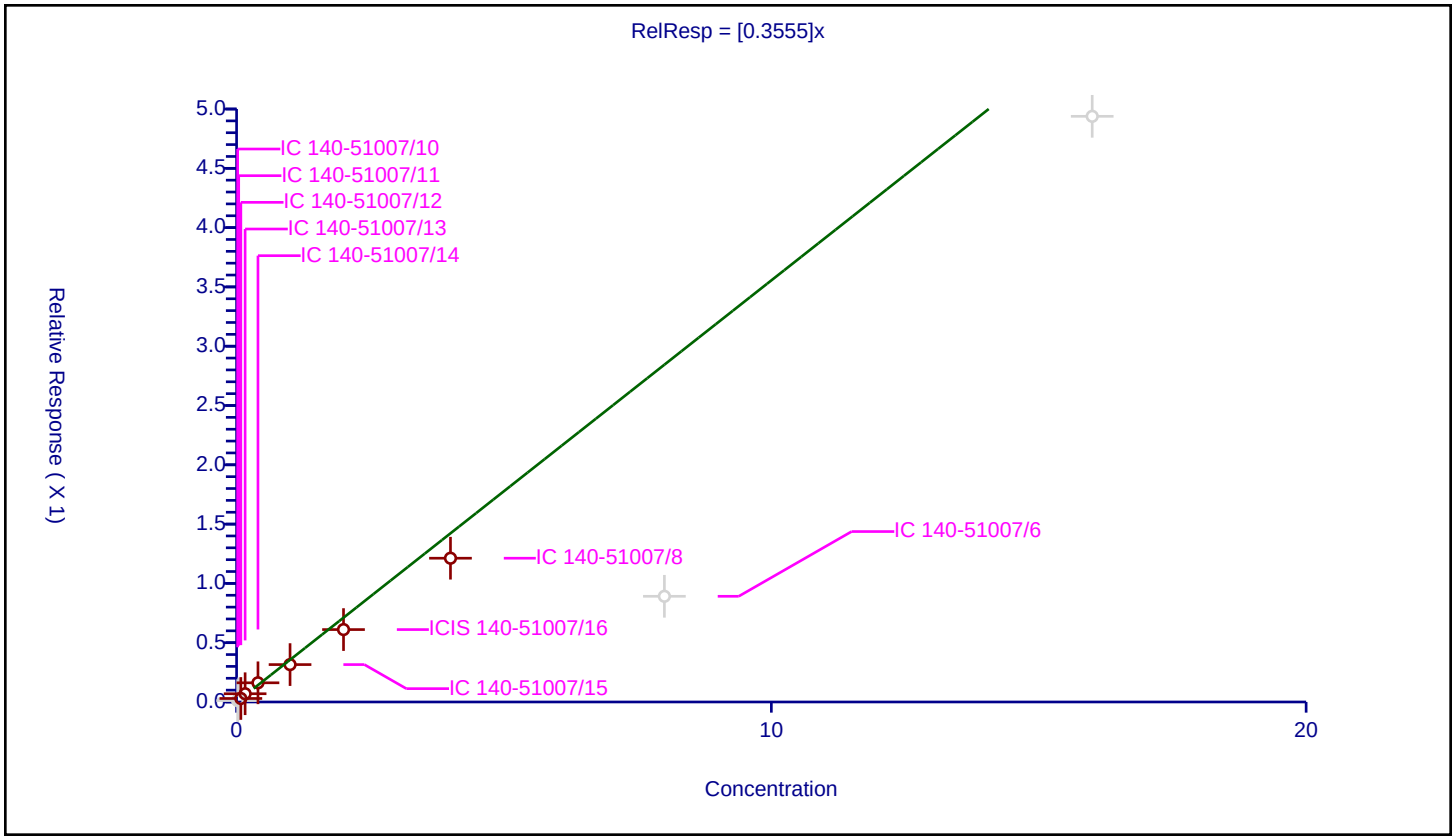
Curve Coefficients

Intercept:	0
Slope:	0.3555

Error Coefficients

Standard Error:	46300
Relative Standard Error:	15.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.959

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.011599	4.8	355474.0	0.579958	N
2	IC 140-51007/11	0.04	0.025829	4.8	340455.0	0.645724	N
3	IC 140-51007/12	0.08	0.029664	4.8	329450.0	0.3708	Y
4	IC 140-51007/13	0.16	0.069479	4.8	325806.0	0.434246	Y
5	IC 140-51007/14	0.4	0.161711	4.8	320869.0	0.404277	Y
6	IC 140-51007/15	1.0	0.315282	4.8	319729.0	0.315282	Y
7	ICIS 140-51007/16	2.0	0.610615	4.8	324554.0	0.305308	Y
8	IC 140-51007/8	4.0	1.212392	4.8	363415.0	0.303098	Y
9	IC 140-51007/6	8.0	0.891218	4.8	370463.0	0.111402	N
10	IC 140-51007/4	16.0	4.938405	4.8	356728.0	0.30865	N



Calibration / 1,2-Dichloro-1,1,2,2-tetrafluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

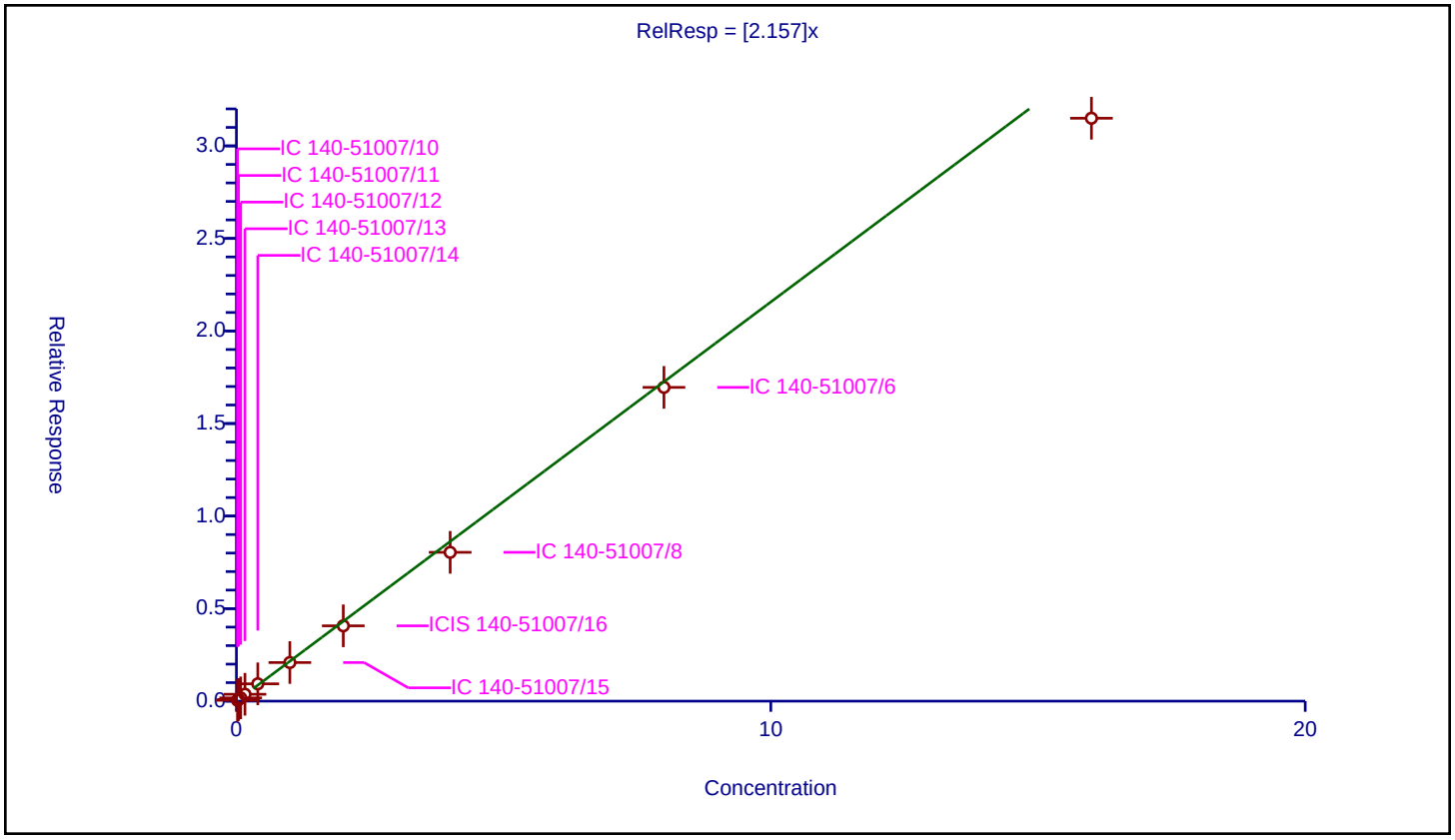
Curve Coefficients

Intercept:	0
Slope:	2.157

Error Coefficients

Standard Error:	923000
Relative Standard Error:	6.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.045627	4.8	355474.0	2.281348	Y
2	IC 140-51007/11	0.04	0.088695	4.8	340455.0	2.217386	Y
3	IC 140-51007/12	0.08	0.1744	4.8	329450.0	2.179997	Y
4	IC 140-51007/13	0.16	0.372605	4.8	325806.0	2.328778	Y
5	IC 140-51007/14	0.4	0.936592	4.8	320869.0	2.341479	Y
6	IC 140-51007/15	1.0	2.086227	4.8	319729.0	2.086227	Y
7	ICIS 140-51007/16	2.0	4.069279	4.8	324554.0	2.03464	Y
8	IC 140-51007/8	4.0	8.040606	4.8	363415.0	2.010151	Y
9	IC 140-51007/6	8.0	16.953453	4.8	370463.0	2.119182	Y
10	IC 140-51007/4	16.0	31.495499	4.8	356728.0	1.968469	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

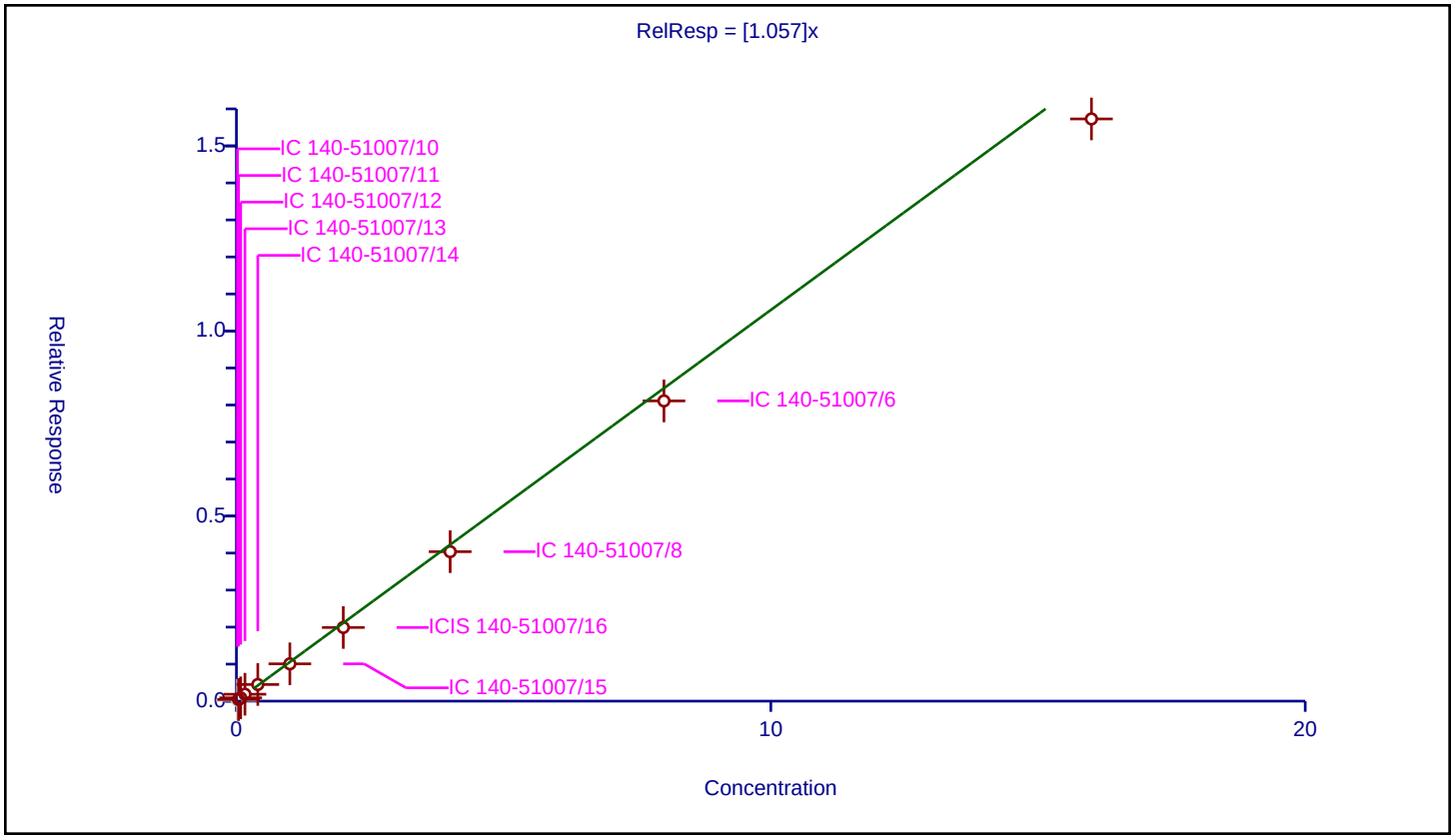
Curve Coefficients

Intercept:	0
Slope:	1.057

Error Coefficients

Standard Error:	484000
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.02413	4.8	355474.0	1.206502	N
2	IC 140-51007/11	0.04	0.044143	4.8	340455.0	1.103582	Y
3	IC 140-51007/12	0.08	0.08873	4.8	329450.0	1.109121	Y
4	IC 140-51007/13	0.16	0.186516	4.8	325806.0	1.165724	Y
5	IC 140-51007/14	0.4	0.44911	4.8	320869.0	1.122776	Y
6	IC 140-51007/15	1.0	1.007924	4.8	319729.0	1.007924	Y
7	ICIS 140-51007/16	2.0	1.989931	4.8	324554.0	0.994965	Y
8	IC 140-51007/8	4.0	4.037539	4.8	363415.0	1.009385	Y
9	IC 140-51007/6	8.0	8.110841	4.8	370463.0	1.013855	Y
10	IC 140-51007/4	16.0	15.728461	4.8	356728.0	0.983029	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

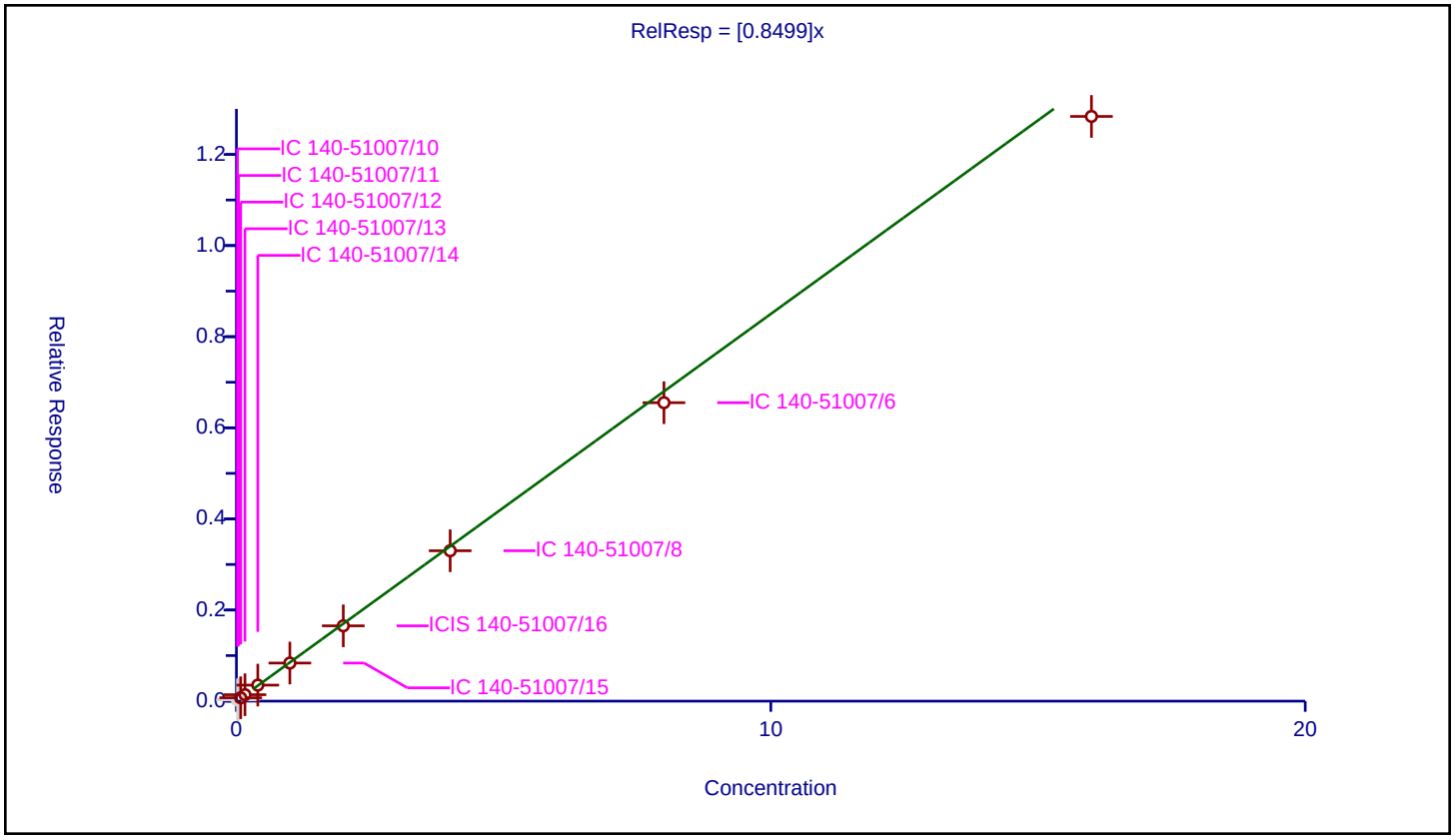
Curve Coefficients

Intercept:	0
Slope:	0.8499

Error Coefficients

Standard Error:	422000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.026331	4.8	355474.0	1.316552	N
2	IC 140-51007/11	0.04	0.039984	4.8	340455.0	0.999603	N
3	IC 140-51007/12	0.08	0.07432	4.8	329450.0	0.929003	Y
4	IC 140-51007/13	0.16	0.140992	4.8	325806.0	0.881199	Y
5	IC 140-51007/14	0.4	0.351934	4.8	320869.0	0.879836	Y
6	IC 140-51007/15	1.0	0.836058	4.8	319729.0	0.836058	Y
7	ICIS 140-51007/16	2.0	1.653085	4.8	324554.0	0.826542	Y
8	IC 140-51007/8	4.0	3.301218	4.8	363415.0	0.825304	Y
9	IC 140-51007/6	8.0	6.551274	4.8	370463.0	0.818909	Y
10	IC 140-51007/4	16.0	12.834585	4.8	356728.0	0.802162	Y



Calibration / Butane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

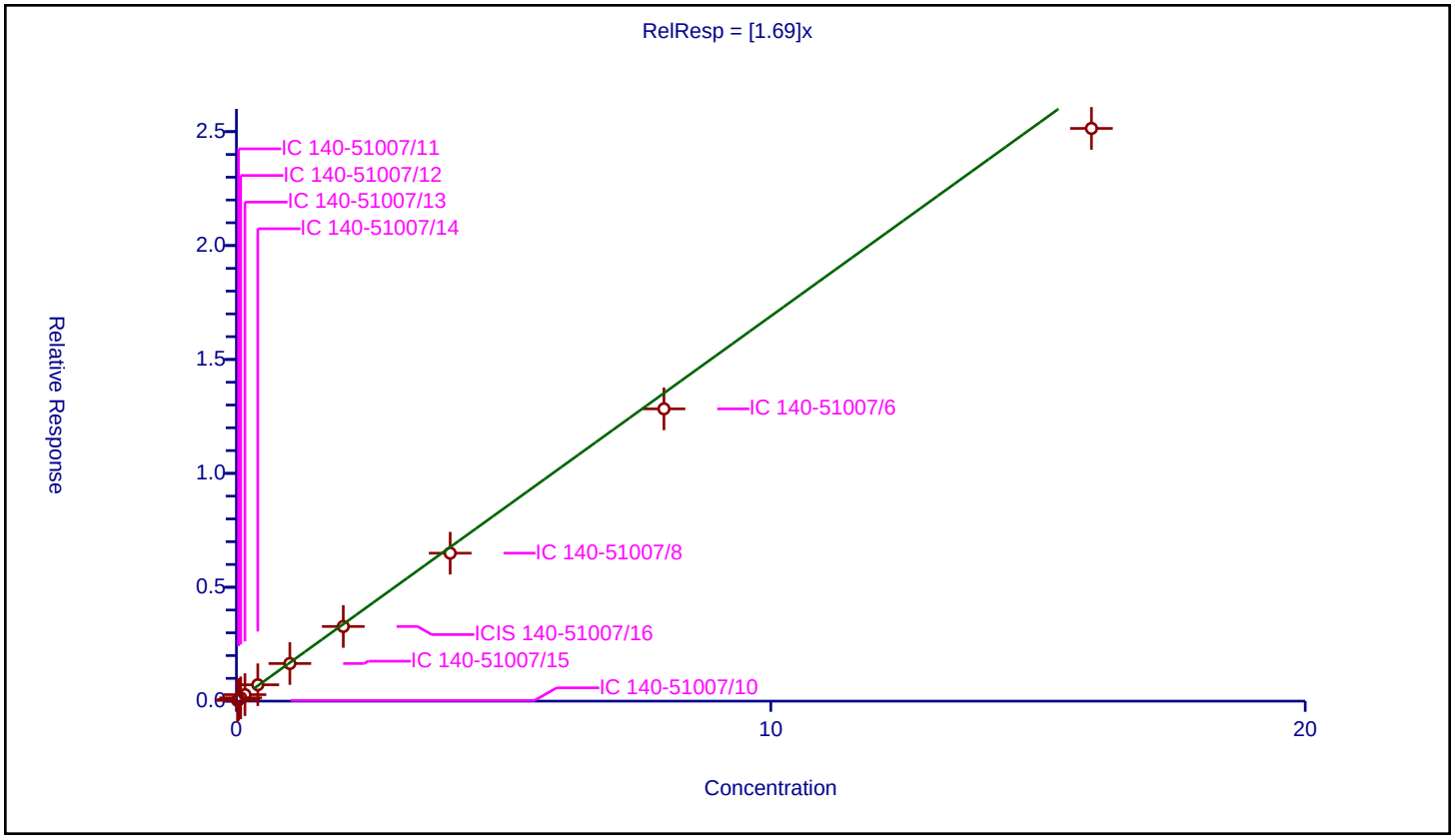
Curve Coefficients

Intercept:	0
Slope:	1.69

Error Coefficients

Standard Error:	729000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.031665	4.8	355474.0	1.583238	Y
2	IC 140-51007/11	0.04	0.073835	4.8	340455.0	1.845883	Y
3	IC 140-51007/12	0.08	0.144736	4.8	329450.0	1.809197	Y
4	IC 140-51007/13	0.16	0.284312	4.8	325806.0	1.776947	Y
5	IC 140-51007/14	0.4	0.718304	4.8	320869.0	1.795761	Y
6	IC 140-51007/15	1.0	1.651338	4.8	319729.0	1.651338	Y
7	ICIS 140-51007/16	2.0	3.278424	4.8	324554.0	1.639212	Y
8	IC 140-51007/8	4.0	6.495952	4.8	363415.0	1.623988	Y
9	IC 140-51007/6	8.0	12.832064	4.8	370463.0	1.604008	Y
10	IC 140-51007/4	16.0	25.14315	4.8	356728.0	1.571447	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

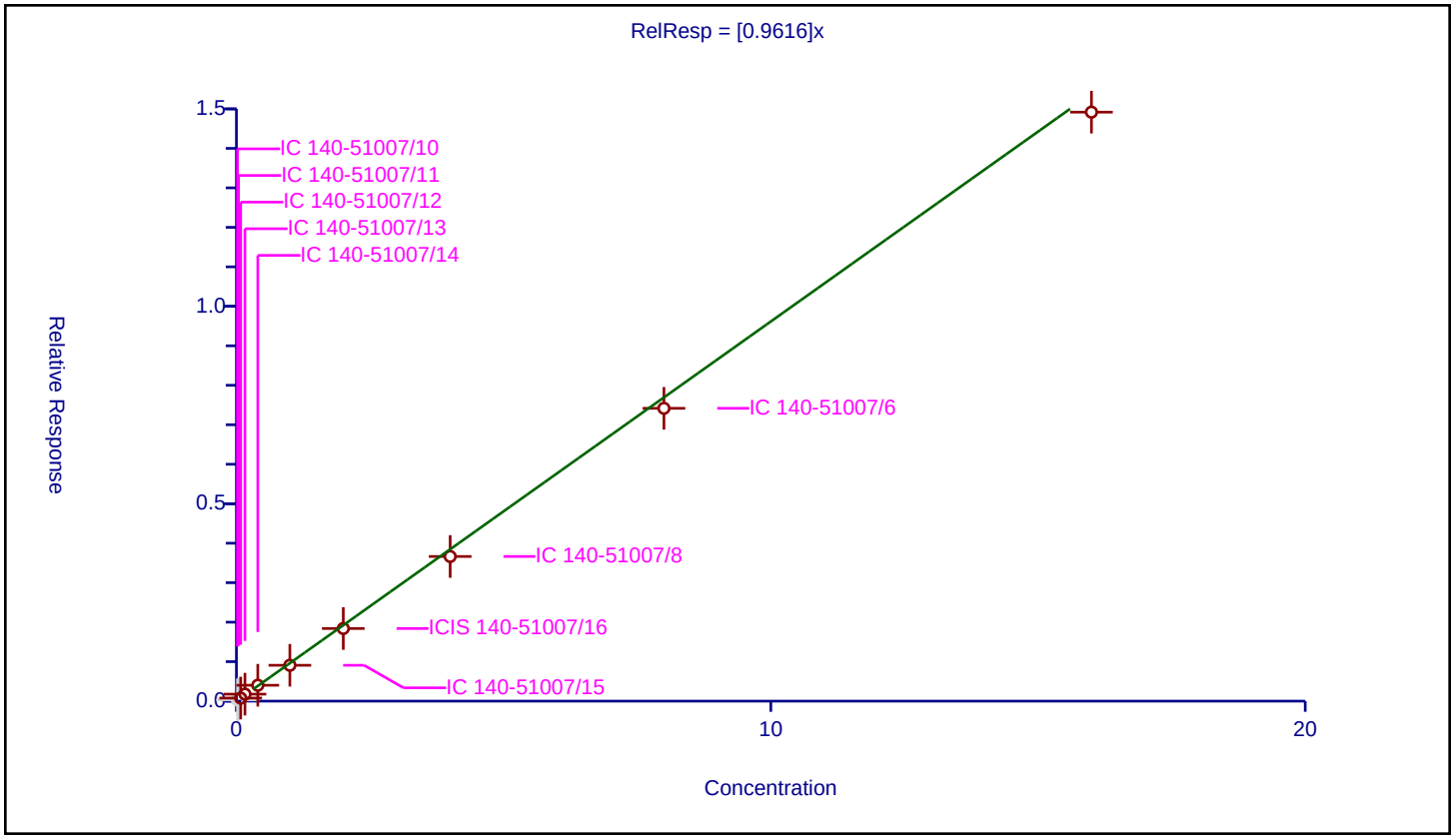
Curve Coefficients

Intercept:	0
Slope:	0.9616

Error Coefficients

Standard Error:	486000
Relative Standard Error:	7.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.031138	4.8	355474.0	1.556907	N
2	IC 140-51007/11	0.04	0.053646	4.8	340455.0	1.341146	N
3	IC 140-51007/12	0.08	0.078108	4.8	329450.0	0.976355	Y
4	IC 140-51007/13	0.16	0.177043	4.8	325806.0	1.106517	Y
5	IC 140-51007/14	0.4	0.402153	4.8	320869.0	1.005382	Y
6	IC 140-51007/15	1.0	0.908629	4.8	319729.0	0.908629	Y
7	ICIS 140-51007/16	2.0	1.840128	4.8	324554.0	0.920064	Y
8	IC 140-51007/8	4.0	3.664069	4.8	363415.0	0.916017	Y
9	IC 140-51007/6	8.0	7.416812	4.8	370463.0	0.927101	Y
10	IC 140-51007/4	16.0	14.917813	4.8	356728.0	0.932363	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

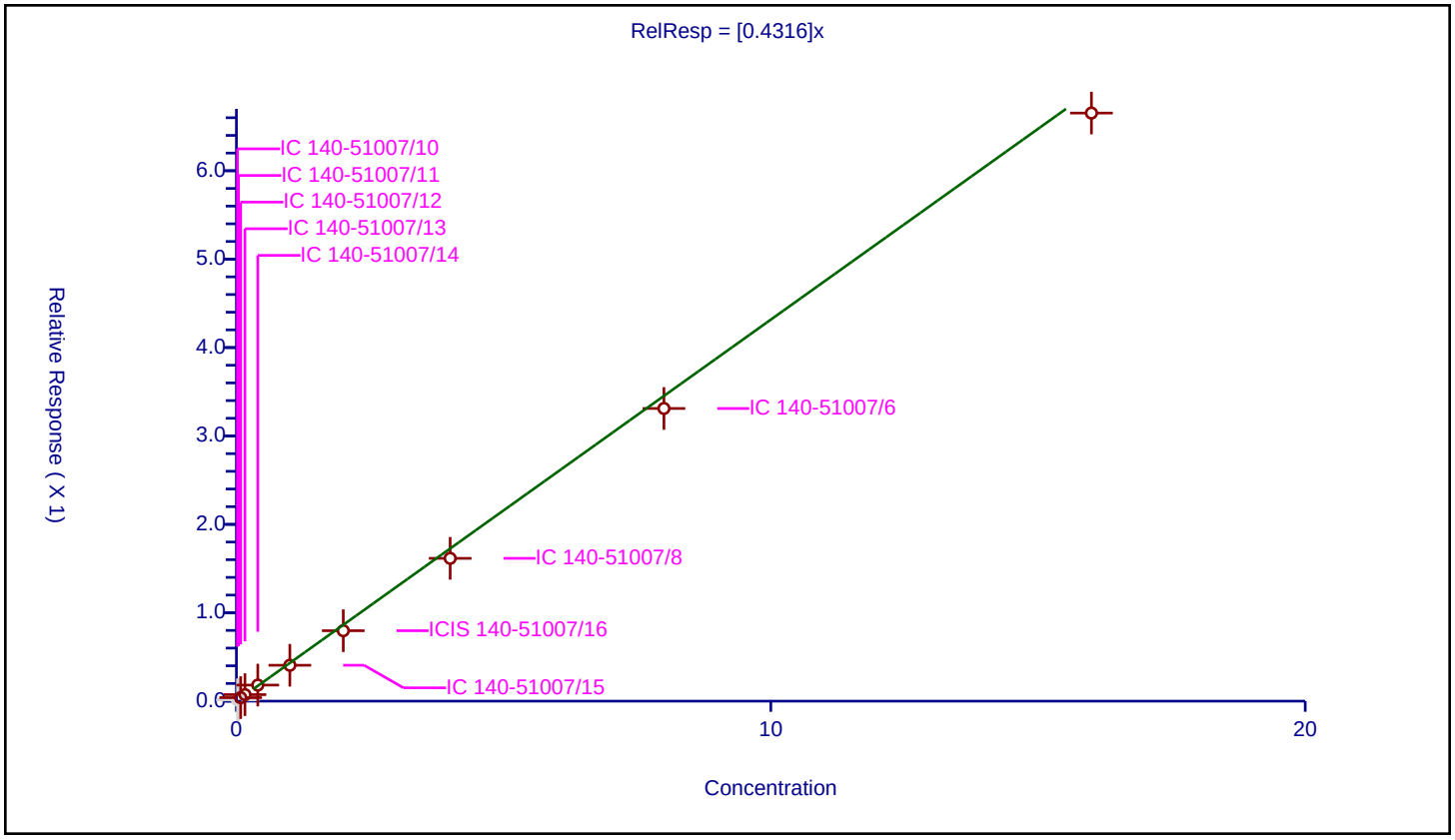
Curve Coefficients

Intercept:	0
Slope:	0.4316

Error Coefficients

Standard Error:	217000
Relative Standard Error:	8.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.01376	4.8	355474.0	0.687983	N
2	IC 140-51007/11	0.04	0.019358	4.8	340455.0	0.483941	N
3	IC 140-51007/12	0.08	0.039965	4.8	329450.0	0.49956	Y
4	IC 140-51007/13	0.16	0.073663	4.8	325806.0	0.460397	Y
5	IC 140-51007/14	0.4	0.181981	4.8	320869.0	0.454952	Y
6	IC 140-51007/15	1.0	0.405914	4.8	319729.0	0.405914	Y
7	ICIS 140-51007/16	2.0	0.796697	4.8	324554.0	0.398349	Y
8	IC 140-51007/8	4.0	1.615594	4.8	363415.0	0.403899	Y
9	IC 140-51007/6	8.0	3.310828	4.8	370463.0	0.413853	Y
10	IC 140-51007/4	16.0	6.652665	4.8	356728.0	0.415792	Y



Calibration / Ethanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

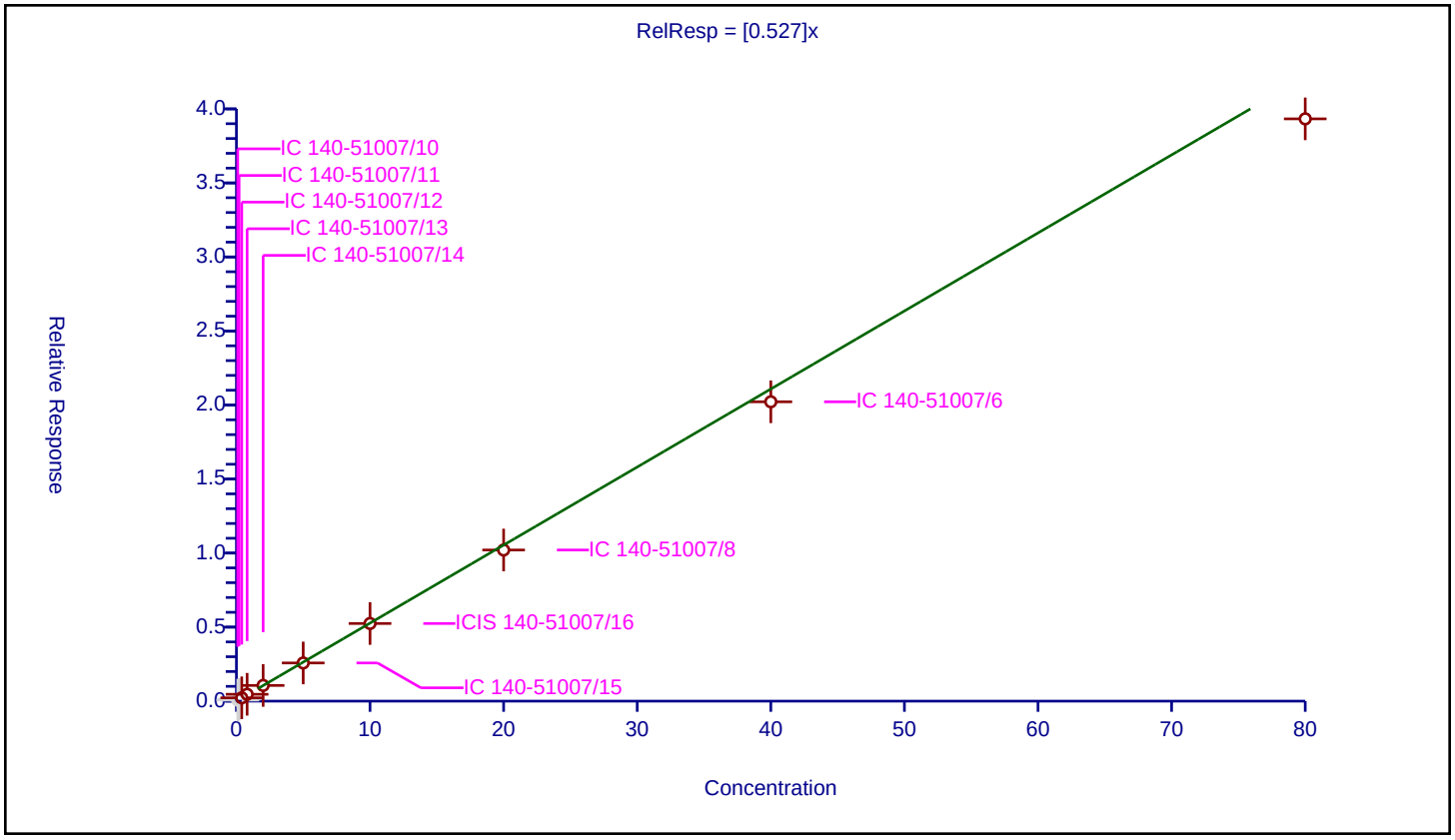
Curve Coefficients

Intercept:	0
Slope:	0.527

Error Coefficients

Standard Error:	1290000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.1	0.069163	4.8	355474.0	0.691629	N
2	IC 140-51007/11	0.2	0.129568	4.8	340455.0	0.647839	N
3	IC 140-51007/12	0.4	0.223514	4.8	329450.0	0.558786	Y
4	IC 140-51007/13	0.8	0.463991	4.8	325806.0	0.579989	Y
5	IC 140-51007/14	2.0	1.059827	4.8	320869.0	0.529913	Y
6	IC 140-51007/15	5.0	2.578479	4.8	319729.0	0.515696	Y
7	ICIS 140-51007/16	10.0	5.244588	4.8	324554.0	0.524459	Y
8	IC 140-51007/8	20.0	10.207226	4.8	363415.0	0.510361	Y
9	IC 140-51007/6	40.0	20.21809	4.8	370463.0	0.505452	Y
10	IC 140-51007/4	80.0	39.327133	4.8	356728.0	0.491589	Y



Calibration / Vinyl bromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

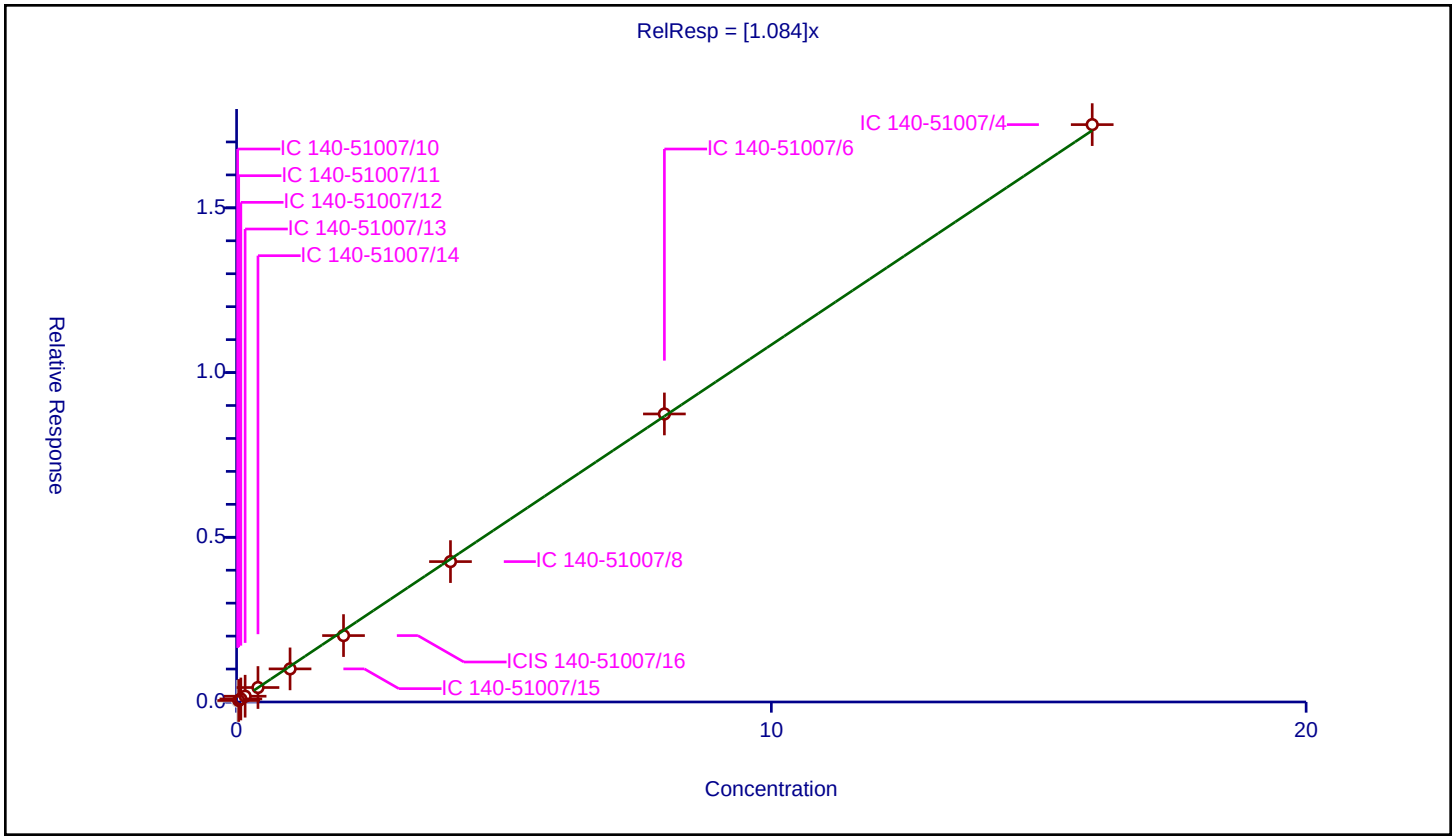
Curve Coefficients

Intercept:	0
Slope:	1.084

Error Coefficients

Standard Error:	534000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.023009	4.8	355474.0	1.150464	N
2	IC 140-51007/11	0.04	0.045779	4.8	340455.0	1.144468	Y
3	IC 140-51007/12	0.08	0.092226	4.8	329450.0	1.15283	Y
4	IC 140-51007/13	0.16	0.175496	4.8	325806.0	1.096849	Y
5	IC 140-51007/14	0.4	0.439357	4.8	320869.0	1.098392	Y
6	IC 140-51007/15	1.0	1.004666	4.8	319729.0	1.004666	Y
7	ICIS 140-51007/16	2.0	2.015739	4.8	324554.0	1.007869	Y
8	IC 140-51007/8	4.0	4.261455	4.8	363415.0	1.065364	Y
9	IC 140-51007/6	8.0	8.743662	4.8	370463.0	1.092958	Y
10	IC 140-51007/4	16.0	17.526725	4.8	356728.0	1.09542	Y



Calibration / 2-Methylbutane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

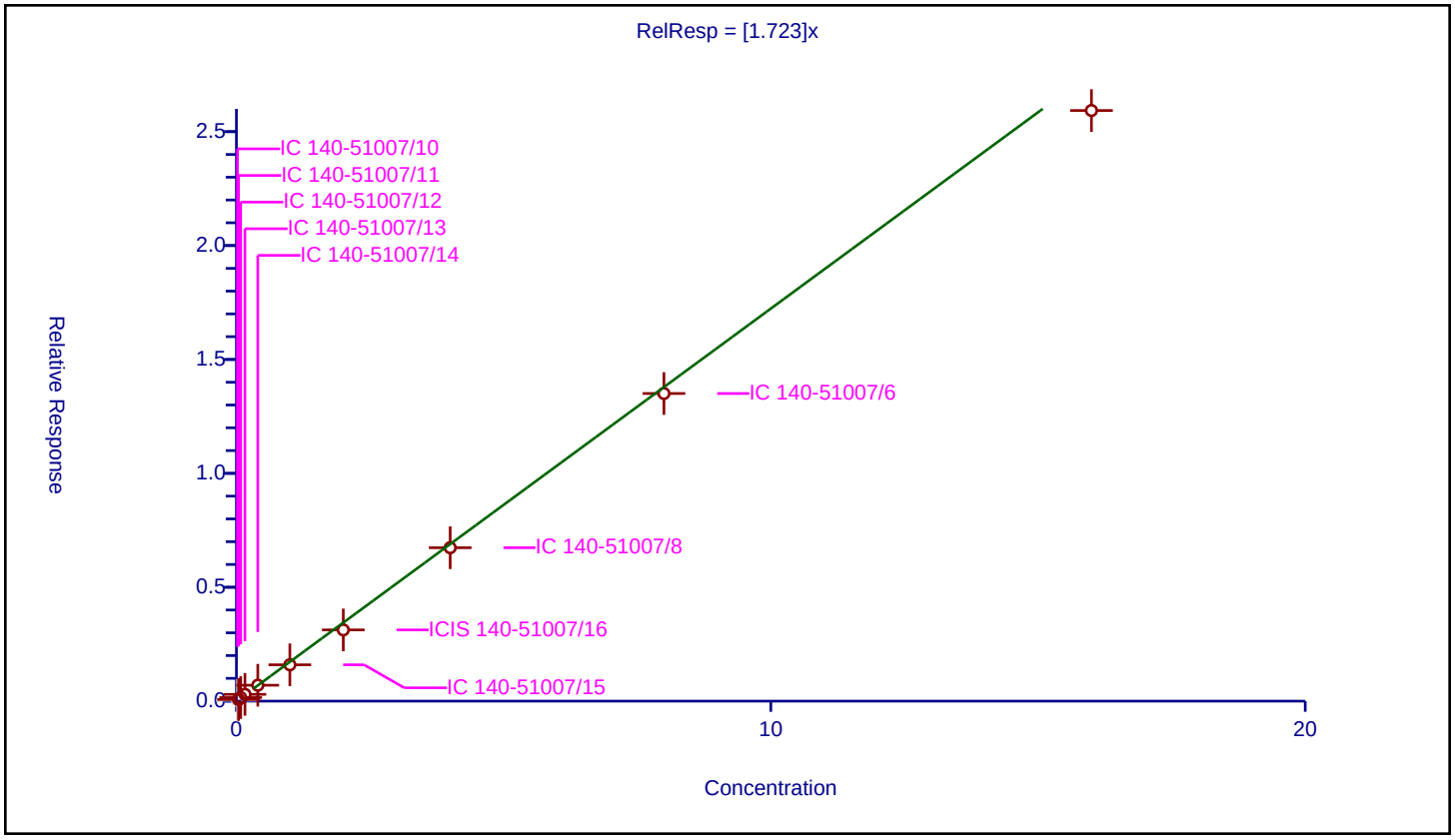
Curve Coefficients

Intercept:	0
Slope:	1.723

Error Coefficients

Standard Error:	800000
Relative Standard Error:	7.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.042427	4.8	355474.0	2.121337	N
2	IC 140-51007/11	0.04	0.072115	4.8	340455.0	1.802881	Y
3	IC 140-51007/12	0.08	0.155969	4.8	329450.0	1.949613	Y
4	IC 140-51007/13	0.16	0.297438	4.8	325806.0	1.85899	Y
5	IC 140-51007/14	0.4	0.698364	4.8	320869.0	1.745909	Y
6	IC 140-51007/15	1.0	1.595731	4.8	319729.0	1.595731	Y
7	ICIS 140-51007/16	2.0	3.127127	4.8	324554.0	1.563564	Y
8	IC 140-51007/8	4.0	6.73544	4.8	363415.0	1.68386	Y
9	IC 140-51007/6	8.0	13.505517	4.8	370463.0	1.68819	Y
10	IC 140-51007/4	16.0	25.928192	4.8	356728.0	1.620512	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

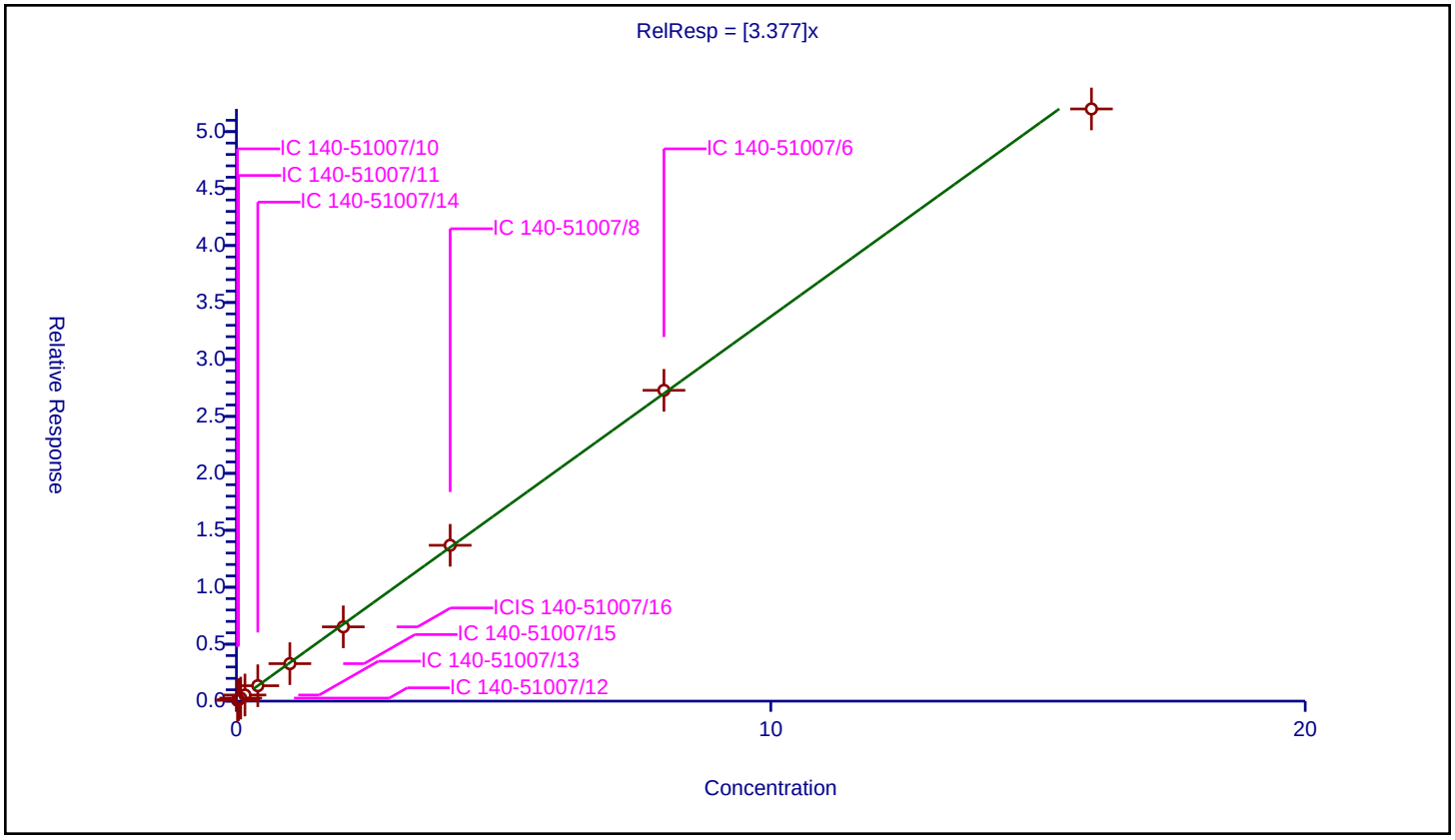
Curve Coefficients

Intercept:	0
Slope:	3.377

Error Coefficients

Standard Error:	1520000
Relative Standard Error:	3.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.072053	4.8	355474.0	3.602626	Y
2	IC 140-51007/11	0.04	0.137322	4.8	340455.0	3.433053	Y
3	IC 140-51007/12	0.08	0.268389	4.8	329450.0	3.354864	Y
4	IC 140-51007/13	0.16	0.537876	4.8	325806.0	3.361724	Y
5	IC 140-51007/14	0.4	1.353076	4.8	320869.0	3.382689	Y
6	IC 140-51007/15	1.0	3.291102	4.8	319729.0	3.291102	Y
7	ICIS 140-51007/16	2.0	6.52295	4.8	324554.0	3.261475	Y
8	IC 140-51007/8	4.0	13.684586	4.8	363415.0	3.421147	Y
9	IC 140-51007/6	8.0	27.292403	4.8	370463.0	3.41155	Y
10	IC 140-51007/4	16.0	51.995932	4.8	356728.0	3.249746	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

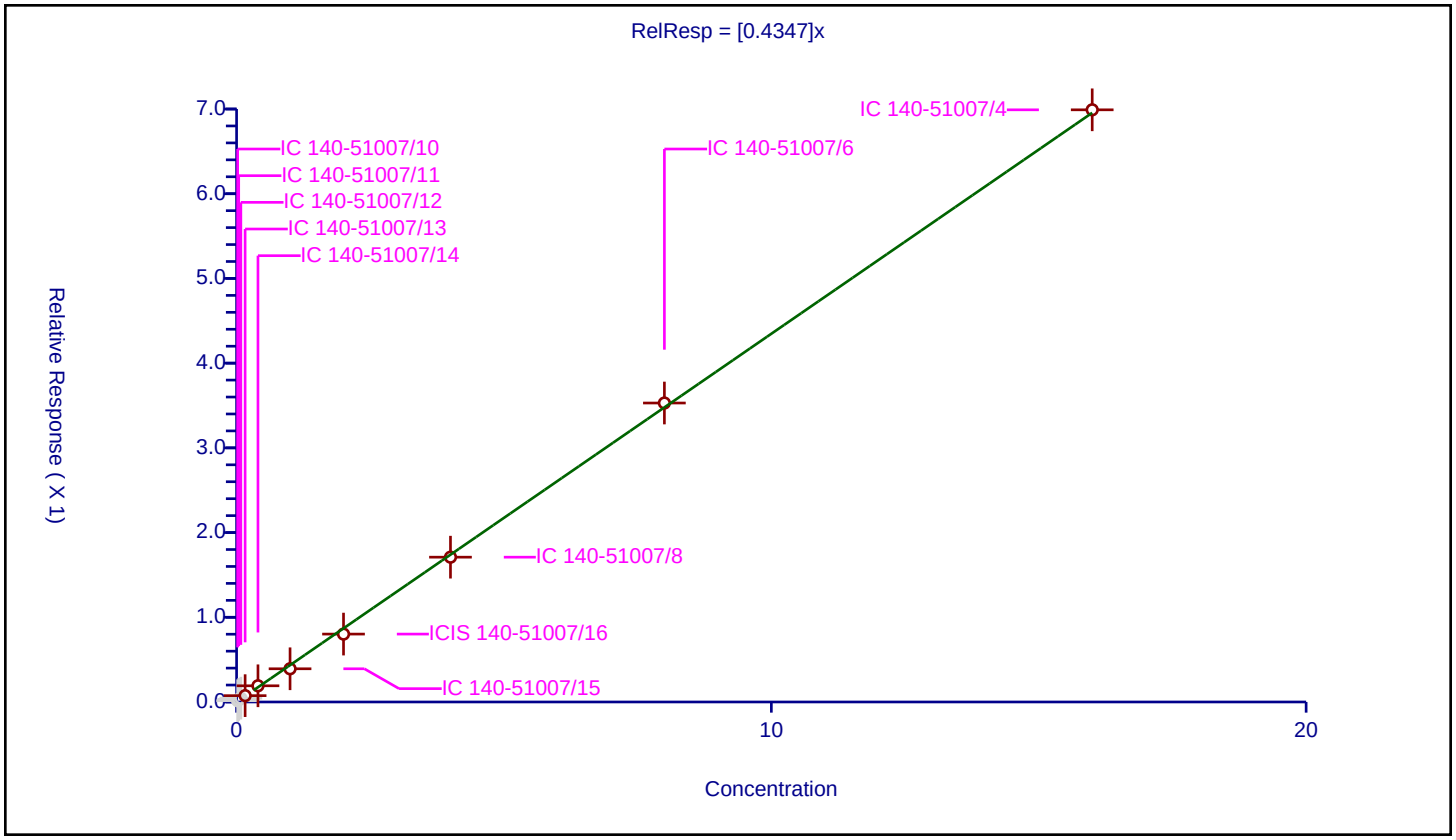
Curve Coefficients

Intercept:	0
Slope:	0.4347

Error Coefficients

Standard Error:	247000
Relative Standard Error:	7.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.014894	4.8	355474.0	0.744696	N
2	IC 140-51007/11	0.04	0.030073	4.8	340455.0	0.751817	N
3	IC 140-51007/12	0.08	0.045326	4.8	329450.0	0.566581	N
4	IC 140-51007/13	0.16	0.074621	4.8	325806.0	0.466382	Y
5	IC 140-51007/14	0.4	0.191315	4.8	320869.0	0.478289	Y
6	IC 140-51007/15	1.0	0.391952	4.8	319729.0	0.391952	Y
7	ICIS 140-51007/16	2.0	0.801651	4.8	324554.0	0.400826	Y
8	IC 140-51007/8	4.0	1.709424	4.8	363415.0	0.427356	Y
9	IC 140-51007/6	8.0	3.52946	4.8	370463.0	0.441183	Y
10	IC 140-51007/4	16.0	6.990617	4.8	356728.0	0.436914	Y



Calibration / Acetonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

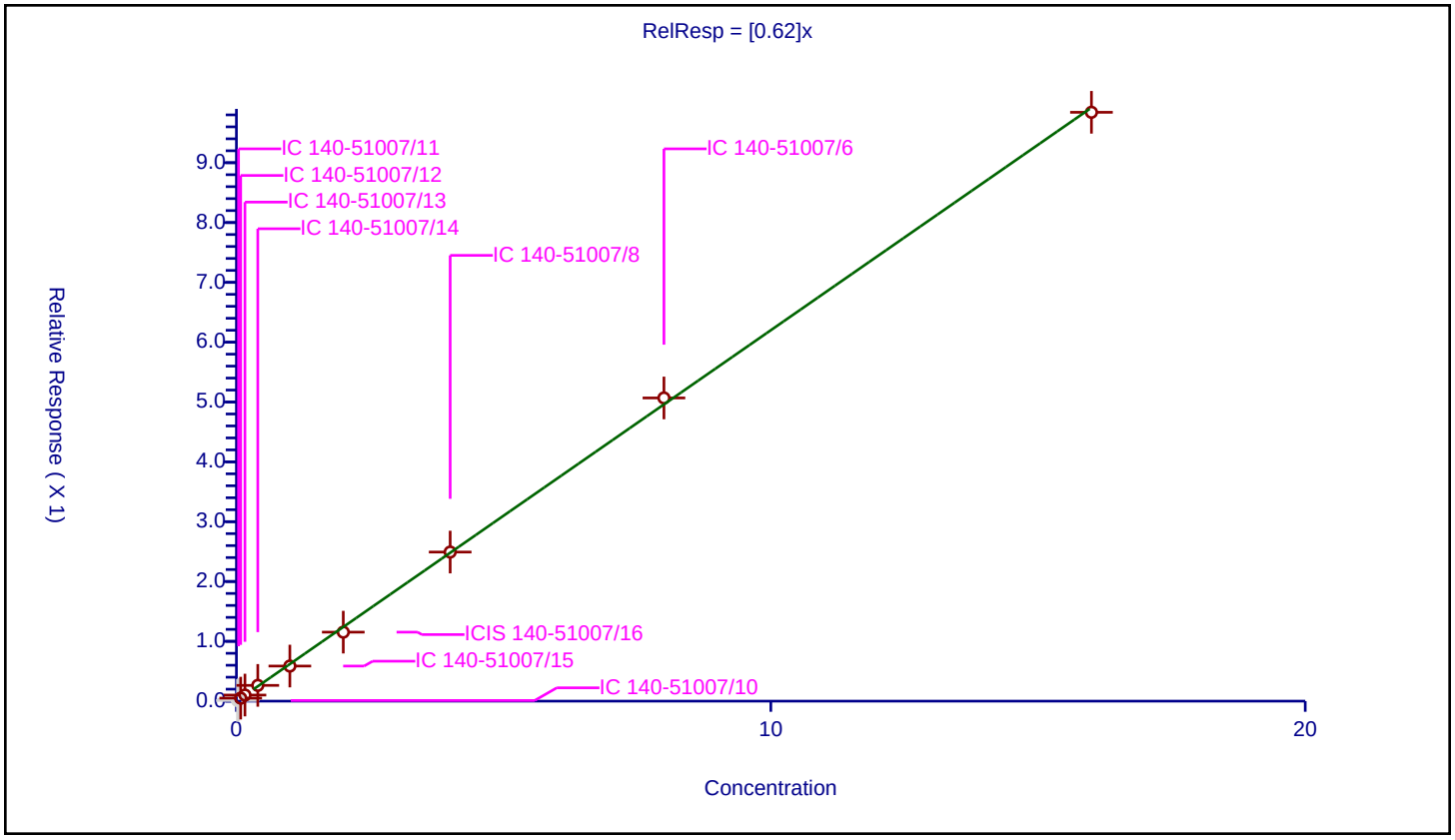
Curve Coefficients

Intercept:	0
Slope:	0.62

Error Coefficients

Standard Error:	323000
Relative Standard Error:	4.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.010883	4.8	355474.0	0.544175	N
2	IC 140-51007/11	0.04	0.027323	4.8	340455.0	0.683086	N
3	IC 140-51007/12	0.08	0.050528	4.8	329450.0	0.631598	Y
4	IC 140-51007/13	0.16	0.101567	4.8	325806.0	0.634795	Y
5	IC 140-51007/14	0.4	0.263405	4.8	320869.0	0.658512	Y
6	IC 140-51007/15	1.0	0.586727	4.8	319729.0	0.586727	Y
7	ICIS 140-51007/16	2.0	1.153494	4.8	324554.0	0.576747	Y
8	IC 140-51007/8	4.0	2.491882	4.8	363415.0	0.62297	Y
9	IC 140-51007/6	8.0	5.067894	4.8	370463.0	0.633487	Y
10	IC 140-51007/4	16.0	9.843036	4.8	356728.0	0.61519	Y



Calibration / Acetone

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

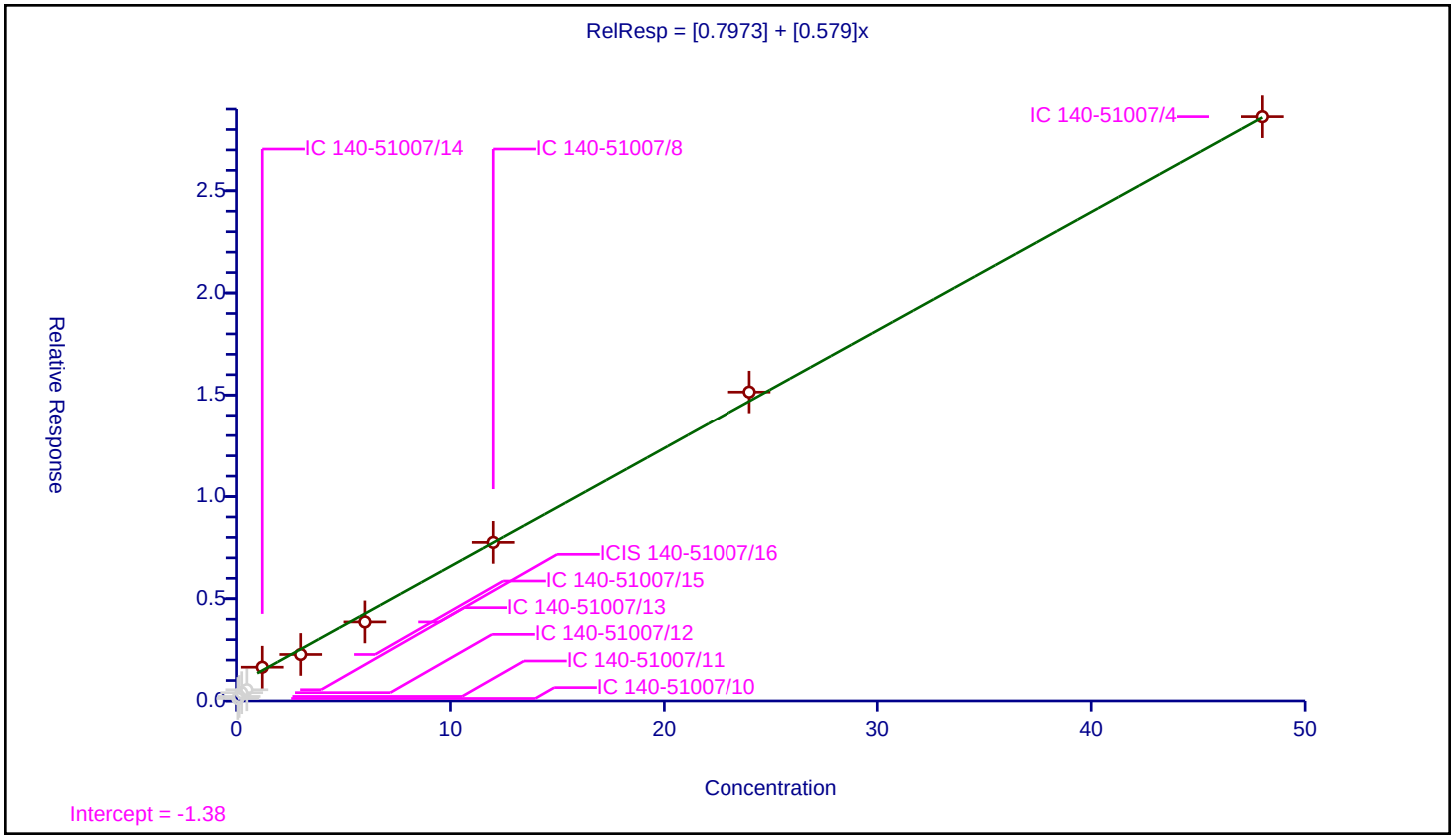
Curve Coefficients

Intercept:	0.7973
Slope:	0.579

Error Coefficients

Standard Error:	1260000
Relative Standard Error:	15.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.06	0.121555	4.8	355474.0	2.025915	N
2	IC 140-51007/11	0.12	0.222056	4.8	340455.0	1.850465	N
3	IC 140-51007/12	0.24	0.406088	4.8	329450.0	1.692032	N
4	IC 140-51007/13	0.48	0.548513	4.8	325806.0	1.142735	N
5	IC 140-51007/14	1.2	1.651575	4.8	320869.0	1.376312	Y
6	IC 140-51007/15	3.0	2.275357	4.8	319729.0	0.758452	Y
7	ICIS 140-51007/16	6.0	3.867491	4.8	324554.0	0.644582	Y
8	IC 140-51007/8	12.0	7.758192	4.8	363415.0	0.646516	Y
9	IC 140-51007/6	24.0	15.146841	4.8	370463.0	0.631118	Y
10	IC 140-51007/4	48.0	28.627754	4.8	356728.0	0.596412	Y



Calibration / Isopropyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

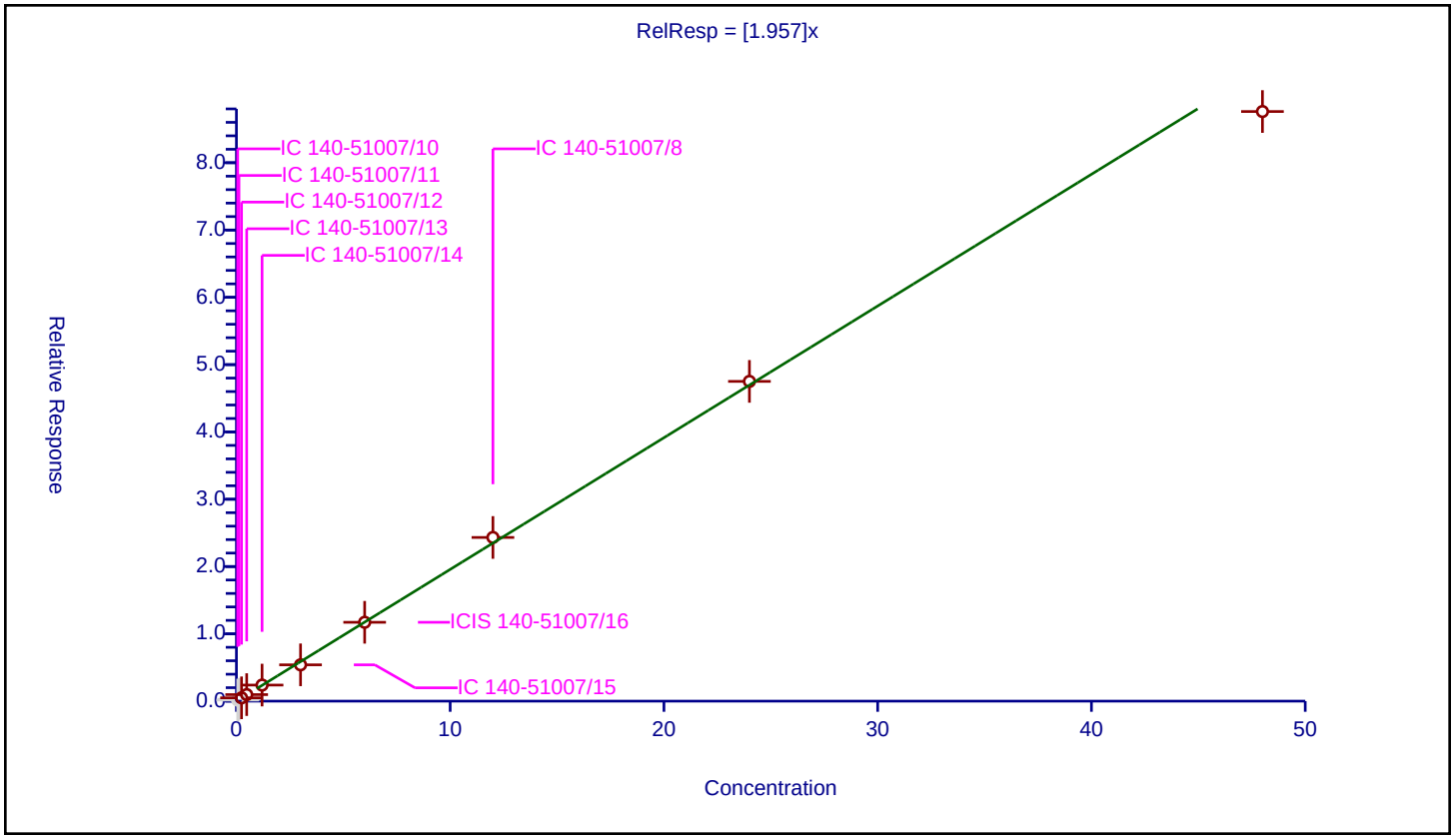
Curve Coefficients

Intercept:	0
Slope:	1.957

Error Coefficients

Standard Error:	2930000
Relative Standard Error:	4.9
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.06	0.160228	4.8	355474.0	2.670463	N
2	IC 140-51007/11	0.12	0.275377	4.8	340455.0	2.294811	N
3	IC 140-51007/12	0.24	0.492938	4.8	329450.0	2.053908	Y
4	IC 140-51007/13	0.48	0.973389	4.8	325806.0	2.027894	Y
5	IC 140-51007/14	1.2	2.39	4.8	320869.0	1.991666	Y
6	IC 140-51007/15	3.0	5.397146	4.8	319729.0	1.799049	Y
7	ICIS 140-51007/16	6.0	11.714547	4.8	324554.0	1.952425	Y
8	IC 140-51007/8	12.0	24.322104	4.8	363415.0	2.026842	Y
9	IC 140-51007/6	24.0	47.511763	4.8	370463.0	1.979657	Y
10	IC 140-51007/4	48.0	87.607656	4.8	356728.0	1.82516	Y



Calibration / Pentane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

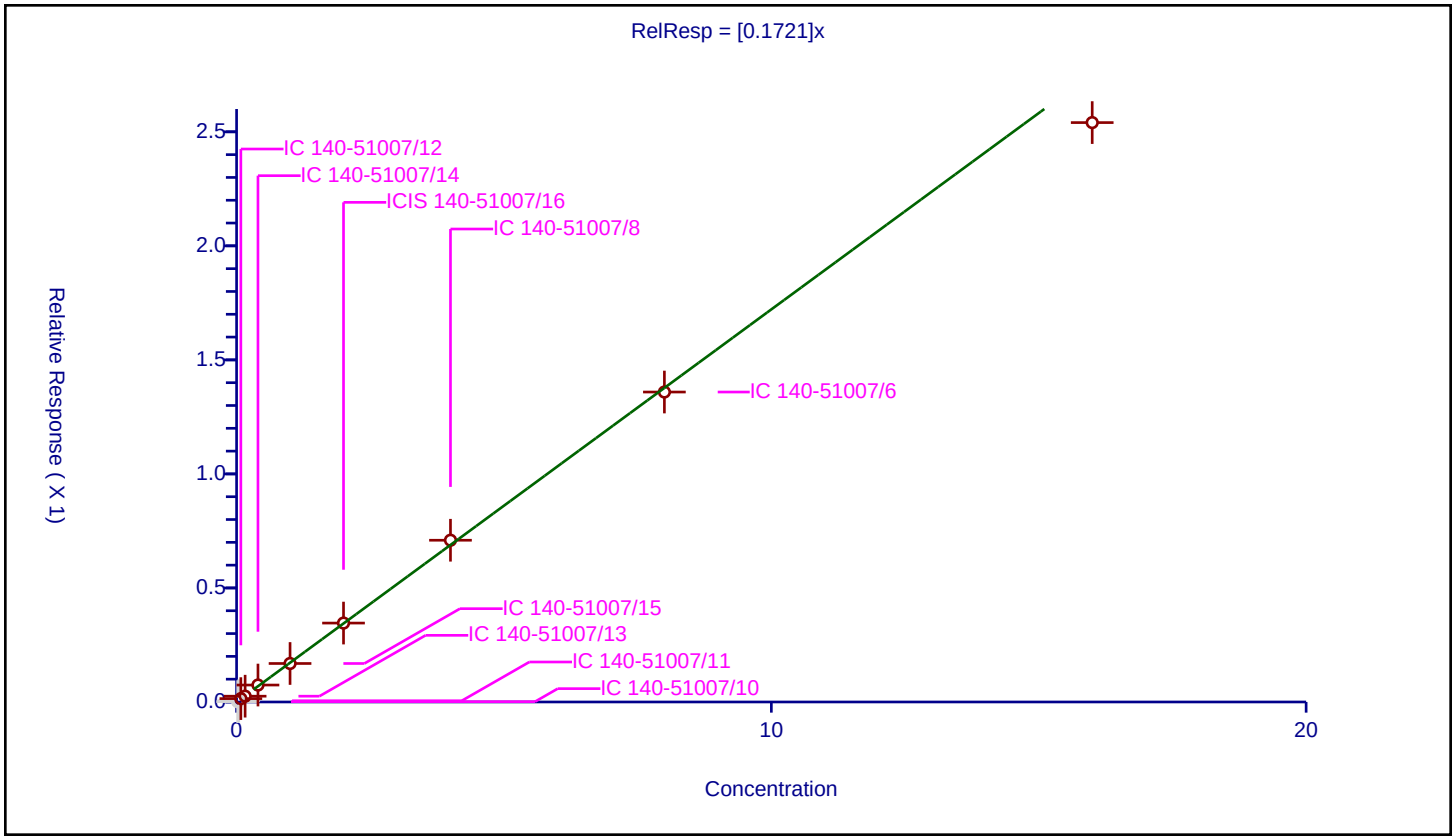
Curve Coefficients

Intercept:	0
Slope:	0.1721

Error Coefficients

Standard Error:	84700
Relative Standard Error:	6.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.001445	4.8	355474.0	0.072242	N
2	IC 140-51007/11	0.04	0.00547	4.8	340455.0	0.136758	N
3	IC 140-51007/12	0.08	0.014759	4.8	329450.0	0.184489	Y
4	IC 140-51007/13	0.16	0.025429	4.8	325806.0	0.158929	Y
5	IC 140-51007/14	0.4	0.074363	4.8	320869.0	0.185908	Y
6	IC 140-51007/15	1.0	0.168773	4.8	319729.0	0.168773	Y
7	ICIS 140-51007/16	2.0	0.34606	4.8	324554.0	0.17303	Y
8	IC 140-51007/8	4.0	0.709219	4.8	363415.0	0.177305	Y
9	IC 140-51007/6	8.0	1.35906	4.8	370463.0	0.169883	Y
10	IC 140-51007/4	16.0	2.540517	4.8	356728.0	0.158782	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

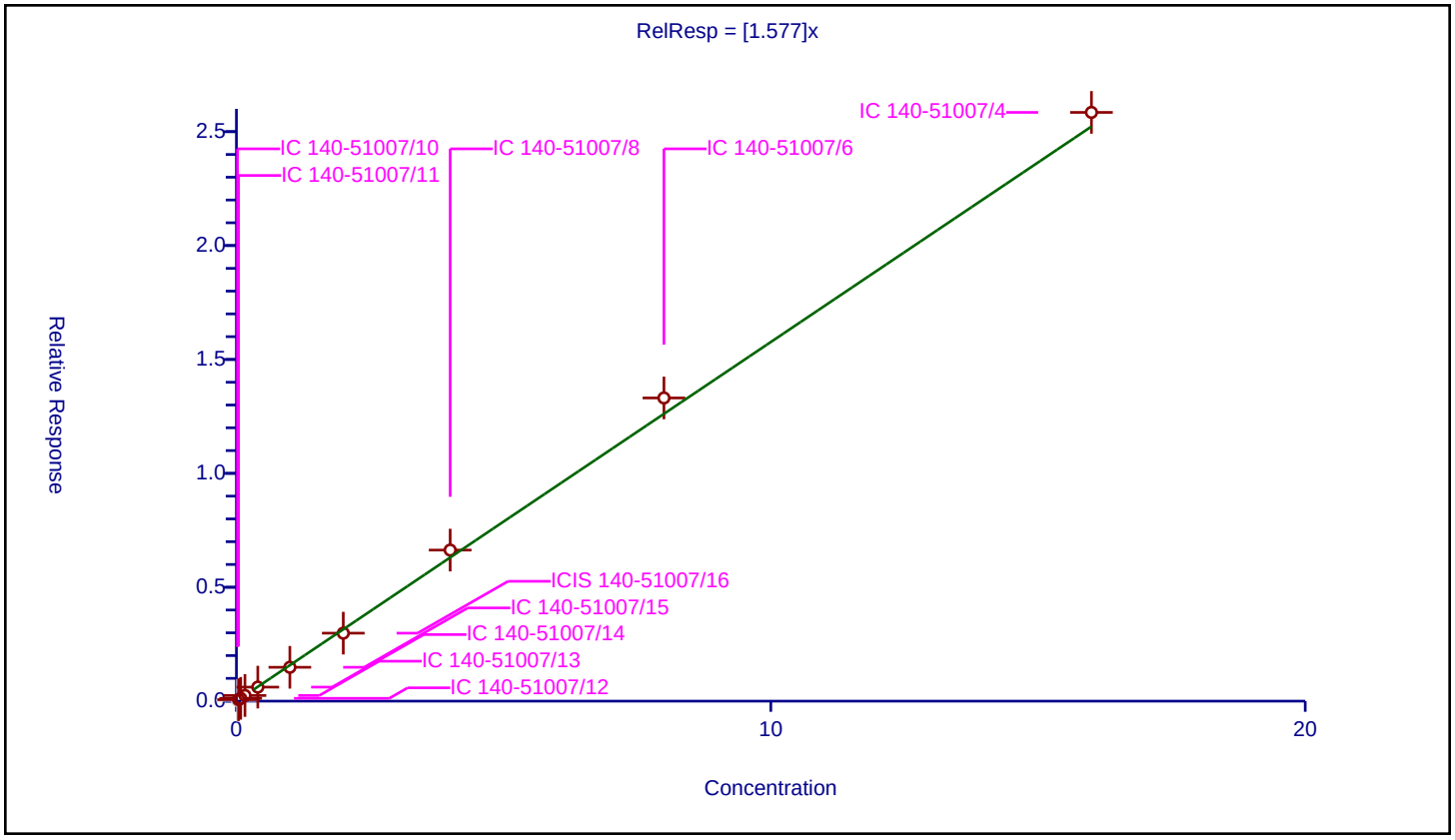
Curve Coefficients

Intercept:	0
Slope:	1.577

Error Coefficients

Standard Error:	794000
Relative Standard Error:	4.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.03554	4.8	355474.0	1.777008	N
2	IC 140-51007/11	0.04	0.065757	4.8	340455.0	1.643918	Y
3	IC 140-51007/12	0.08	0.123551	4.8	329450.0	1.544392	Y
4	IC 140-51007/13	0.16	0.247465	4.8	325806.0	1.546657	Y
5	IC 140-51007/14	0.4	0.615294	4.8	320869.0	1.538235	Y
6	IC 140-51007/15	1.0	1.486274	4.8	319729.0	1.486274	Y
7	ICIS 140-51007/16	2.0	2.984512	4.8	324554.0	1.492256	Y
8	IC 140-51007/8	4.0	6.631942	4.8	363415.0	1.657985	Y
9	IC 140-51007/6	8.0	13.310026	4.8	370463.0	1.663753	Y
10	IC 140-51007/4	16.0	25.845763	4.8	356728.0	1.61536	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

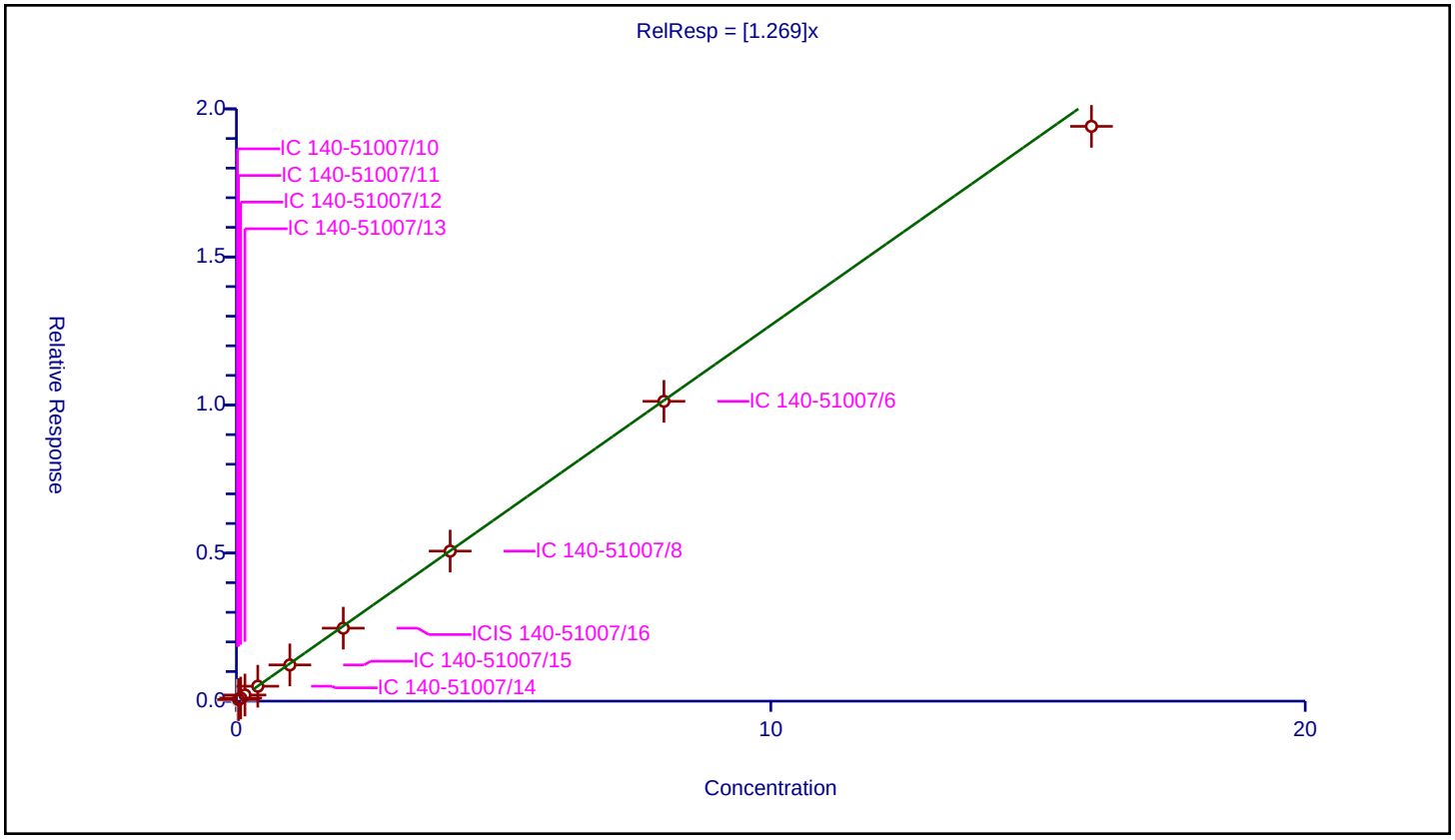
Curve Coefficients

Intercept:	0
Slope:	1.269

Error Coefficients

Standard Error:	599000
Relative Standard Error:	3.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.02941	4.8	355474.0	1.470487	N
2	IC 140-51007/11	0.04	0.054308	4.8	340455.0	1.357712	Y
3	IC 140-51007/12	0.08	0.104917	4.8	329450.0	1.311458	Y
4	IC 140-51007/13	0.16	0.206935	4.8	325806.0	1.293346	Y
5	IC 140-51007/14	0.4	0.50449	4.8	320869.0	1.261225	Y
6	IC 140-51007/15	1.0	1.223356	4.8	319729.0	1.223356	Y
7	ICIS 140-51007/16	2.0	2.464896	4.8	324554.0	1.232448	Y
8	IC 140-51007/8	4.0	5.067119	4.8	363415.0	1.26678	Y
9	IC 140-51007/6	8.0	10.124762	4.8	370463.0	1.265595	Y
10	IC 140-51007/4	16.0	19.409975	4.8	356728.0	1.213123	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

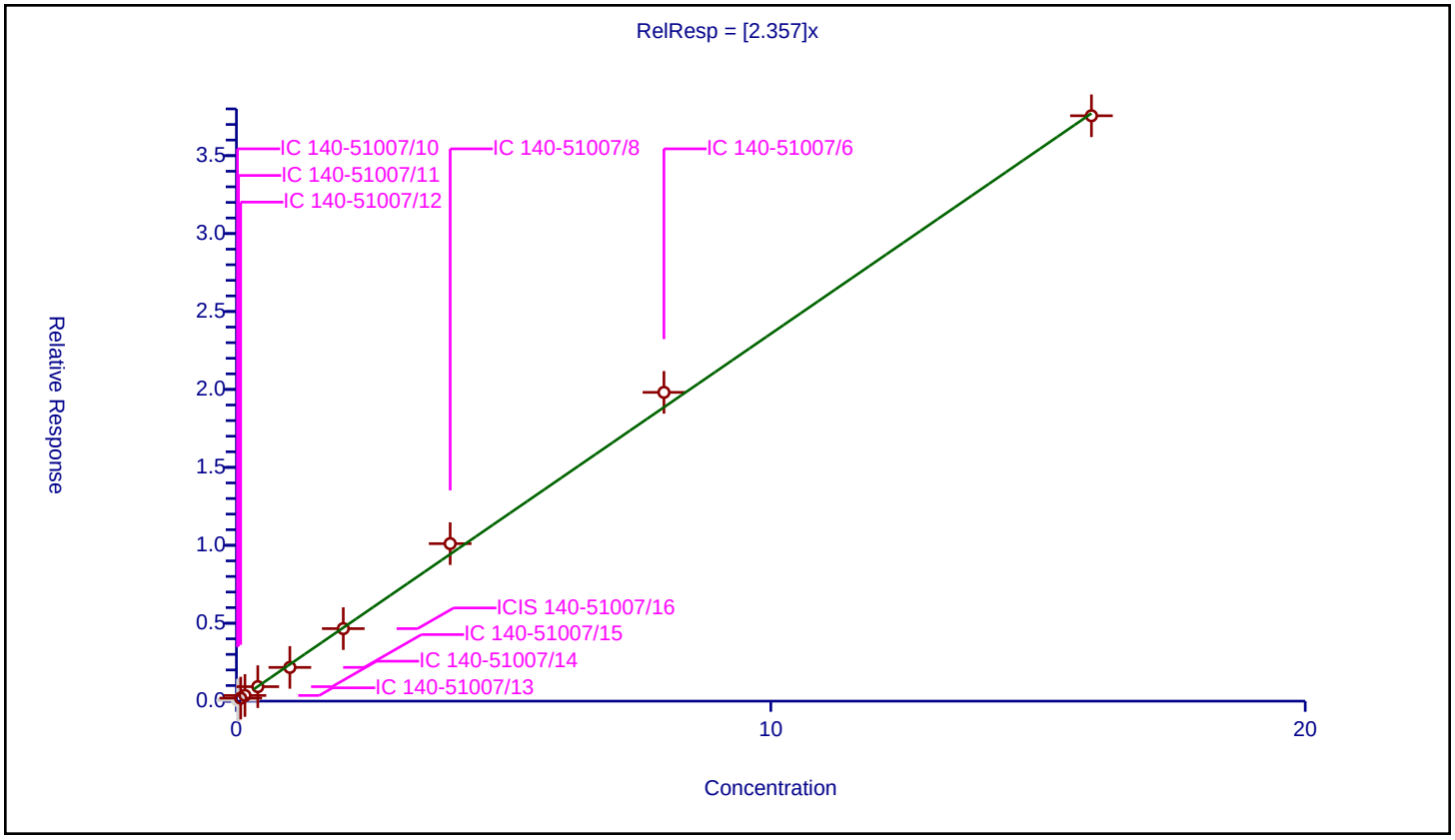
Curve Coefficients

Intercept:	0
Slope:	2.357

Error Coefficients

Standard Error:	1240000
Relative Standard Error:	4.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.051892	4.8	355474.0	2.59462	N
2	IC 140-51007/11	0.04	0.100538	4.8	340455.0	2.51346	N
3	IC 140-51007/12	0.08	0.19369	4.8	329450.0	2.421126	Y
4	IC 140-51007/13	0.16	0.363087	4.8	325806.0	2.269295	Y
5	IC 140-51007/14	0.4	0.929471	4.8	320869.0	2.323677	Y
6	IC 140-51007/15	1.0	2.165134	4.8	319729.0	2.165134	Y
7	ICIS 140-51007/16	2.0	4.652608	4.8	324554.0	2.326304	Y
8	IC 140-51007/8	4.0	10.104772	4.8	363415.0	2.526193	Y
9	IC 140-51007/6	8.0	19.811676	4.8	370463.0	2.476459	Y
10	IC 140-51007/4	16.0	37.559063	4.8	356728.0	2.347441	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

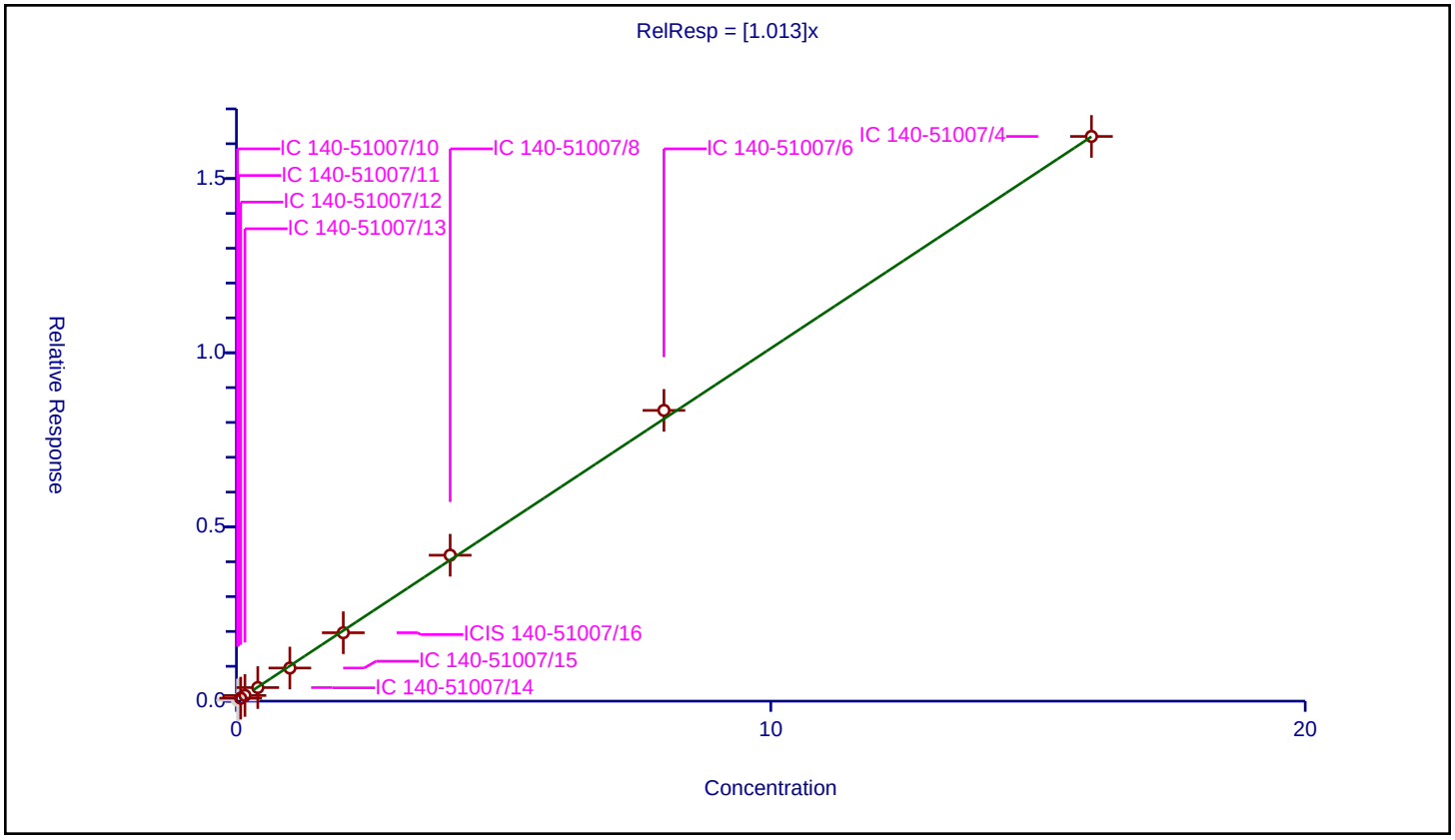
Curve Coefficients

Intercept:	0
Slope:	1.013

Error Coefficients

Standard Error:	533000
Relative Standard Error:	4.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.0286	4.8	355474.0	1.429978	N
2	IC 140-51007/11	0.04	0.050206	4.8	340455.0	1.255144	N
3	IC 140-51007/12	0.08	0.086063	4.8	329450.0	1.075793	Y
4	IC 140-51007/13	0.16	0.162649	4.8	325806.0	1.016556	Y
5	IC 140-51007/14	0.4	0.389437	4.8	320869.0	0.973594	Y
6	IC 140-51007/15	1.0	0.95032	4.8	319729.0	0.95032	Y
7	ICIS 140-51007/16	2.0	1.963324	4.8	324554.0	0.981662	Y
8	IC 140-51007/8	4.0	4.189392	4.8	363415.0	1.047348	Y
9	IC 140-51007/6	8.0	8.345695	4.8	370463.0	1.043212	Y
10	IC 140-51007/4	16.0	16.209446	4.8	356728.0	1.01309	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

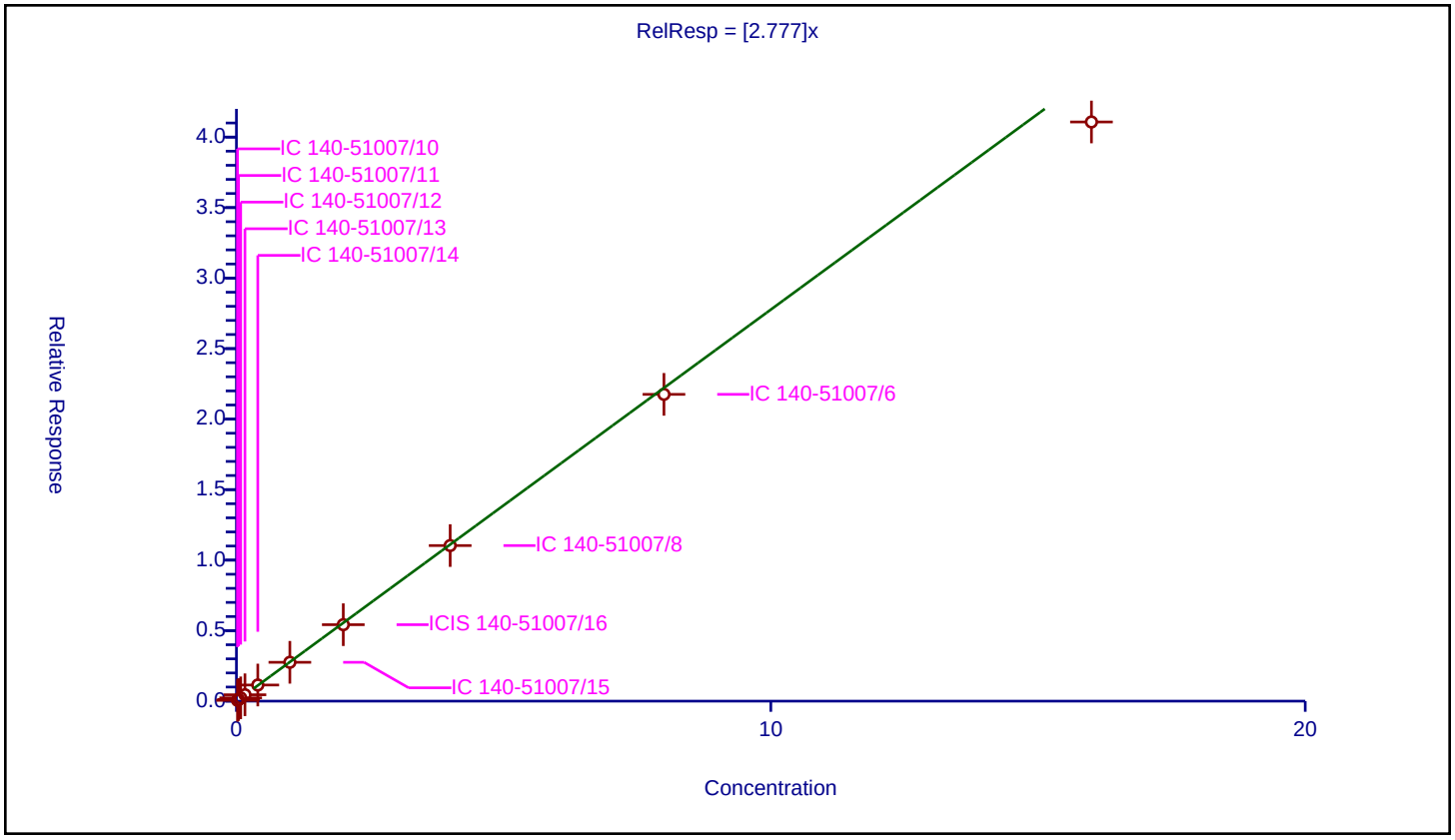
Curve Coefficients

Intercept:	0
Slope:	2.777

Error Coefficients

Standard Error:	1200000
Relative Standard Error:	3.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.056456	4.8	355474.0	2.822822	Y
2	IC 140-51007/11	0.04	0.113566	4.8	340455.0	2.839142	Y
3	IC 140-51007/12	0.08	0.232329	4.8	329450.0	2.904113	Y
4	IC 140-51007/13	0.16	0.452971	4.8	325806.0	2.831071	Y
5	IC 140-51007/14	0.4	1.143465	4.8	320869.0	2.858662	Y
6	IC 140-51007/15	1.0	2.754097	4.8	319729.0	2.754097	Y
7	ICIS 140-51007/16	2.0	5.42258	4.8	324554.0	2.71129	Y
8	IC 140-51007/8	4.0	11.03298	4.8	363415.0	2.758245	Y
9	IC 140-51007/6	8.0	21.756874	4.8	370463.0	2.719609	Y
10	IC 140-51007/4	16.0	41.073365	4.8	356728.0	2.567085	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

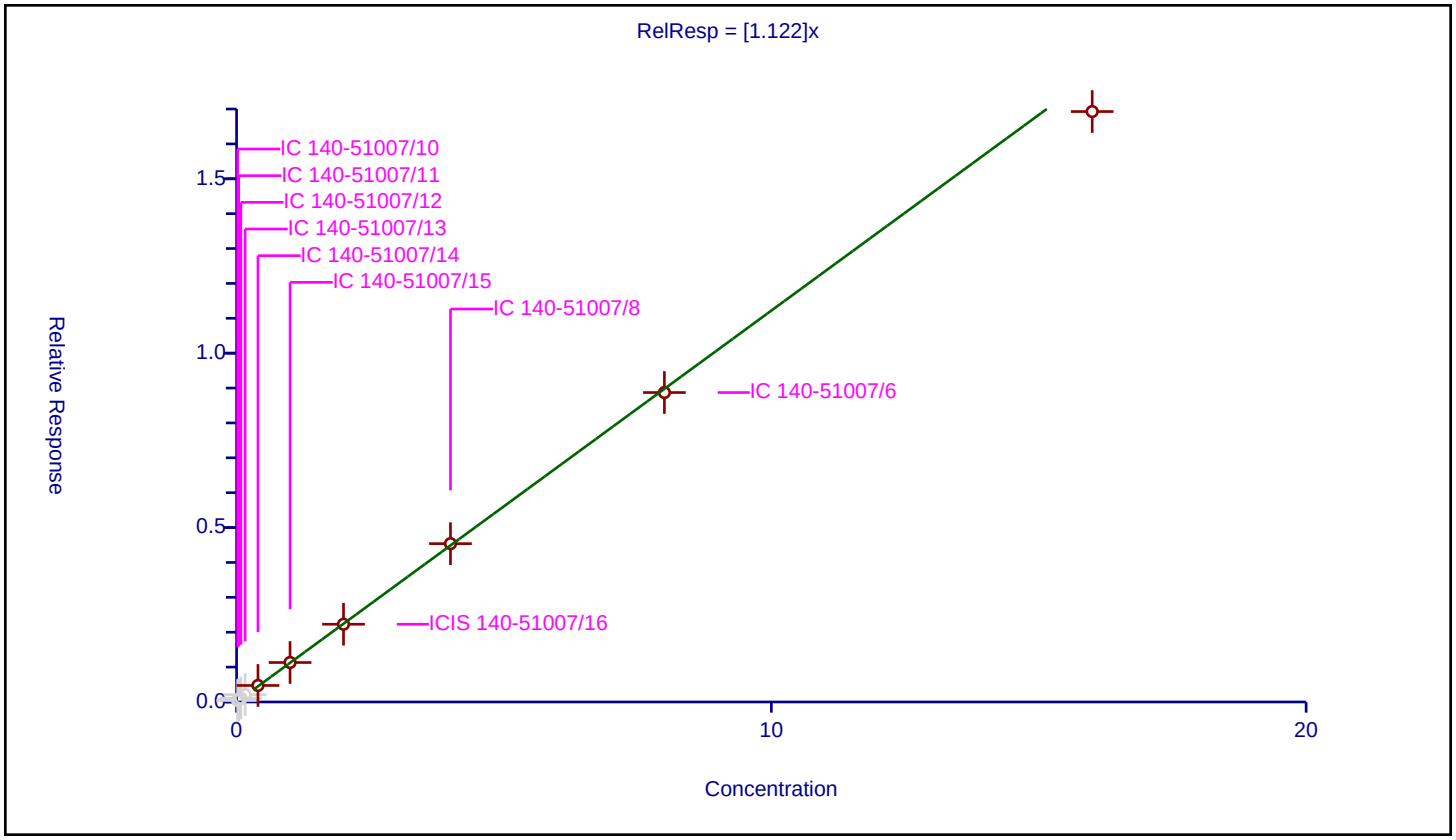
Curve Coefficients

Intercept:	0
Slope:	1.122

Error Coefficients

Standard Error:	663000
Relative Standard Error:	3.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.042278	4.8	355474.0	2.11391	N
2	IC 140-51007/11	0.04	0.066208	4.8	340455.0	1.655197	N
3	IC 140-51007/12	0.08	0.112041	4.8	329450.0	1.400516	N
4	IC 140-51007/13	0.16	0.211945	4.8	325806.0	1.324653	N
5	IC 140-51007/14	0.4	0.473838	4.8	320869.0	1.184596	Y
6	IC 140-51007/15	1.0	1.131809	4.8	319729.0	1.131809	Y
7	ICIS 140-51007/16	2.0	2.228722	4.8	324554.0	1.114361	Y
8	IC 140-51007/8	4.0	4.539036	4.8	363415.0	1.134759	Y
9	IC 140-51007/6	8.0	8.871454	4.8	370463.0	1.108932	Y
10	IC 140-51007/4	16.0	16.927438	4.8	356728.0	1.057965	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

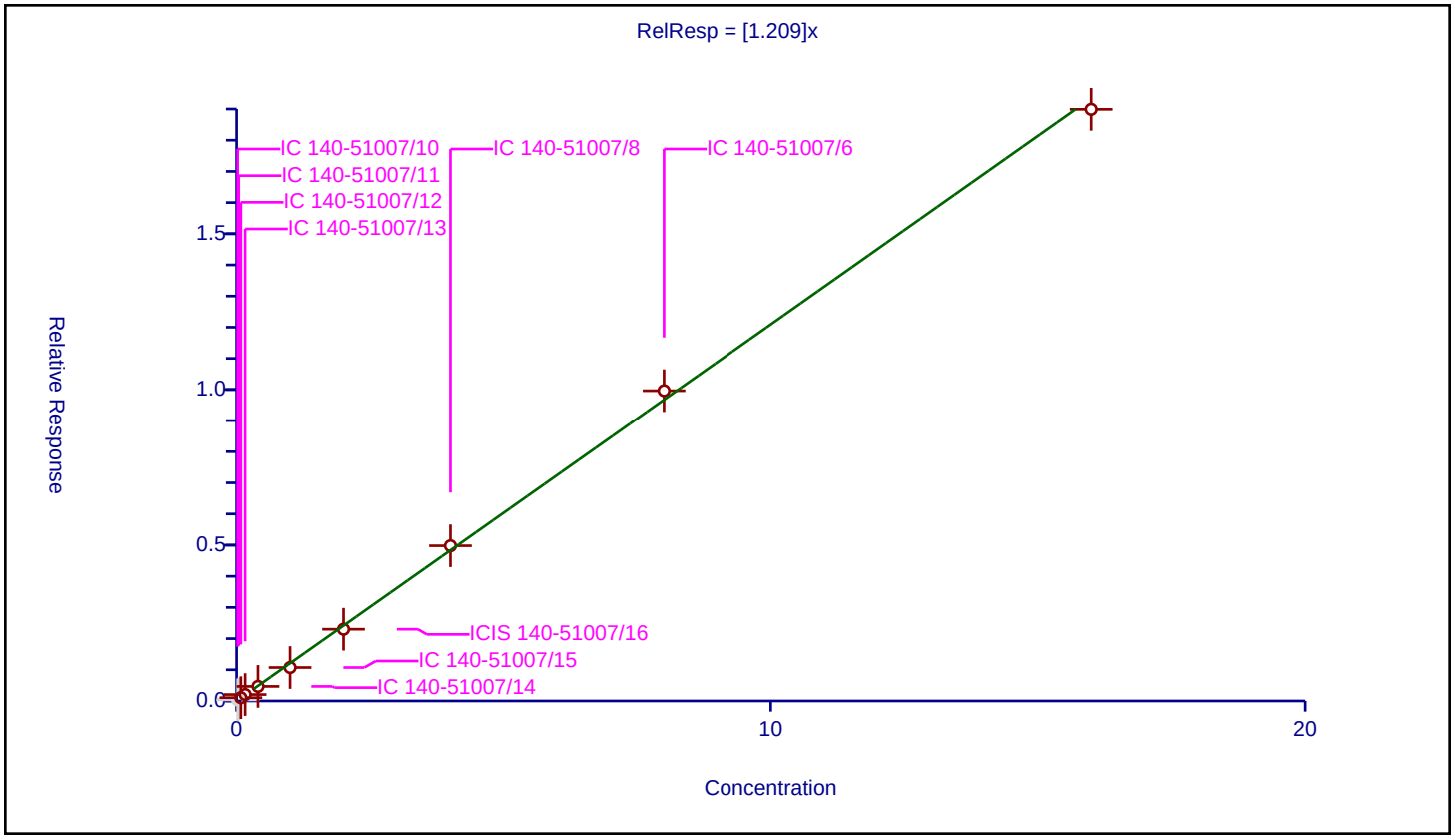
Curve Coefficients

Intercept:	0
Slope:	1.209

Error Coefficients

Standard Error:	627000
Relative Standard Error:	6.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.034379	4.8	355474.0	1.718944	N
2	IC 140-51007/11	0.04	0.061034	4.8	340455.0	1.52584	N
3	IC 140-51007/12	0.08	0.105514	4.8	329450.0	1.318925	Y
4	IC 140-51007/13	0.16	0.205462	4.8	325806.0	1.284138	Y
5	IC 140-51007/14	0.4	0.467316	4.8	320869.0	1.16829	Y
6	IC 140-51007/15	1.0	1.072478	4.8	319729.0	1.072478	Y
7	ICIS 140-51007/16	2.0	2.301472	4.8	324554.0	1.150736	Y
8	IC 140-51007/8	4.0	4.979814	4.8	363415.0	1.244954	Y
9	IC 140-51007/6	8.0	9.962815	4.8	370463.0	1.245352	Y
10	IC 140-51007/4	16.0	18.989971	4.8	356728.0	1.186873	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

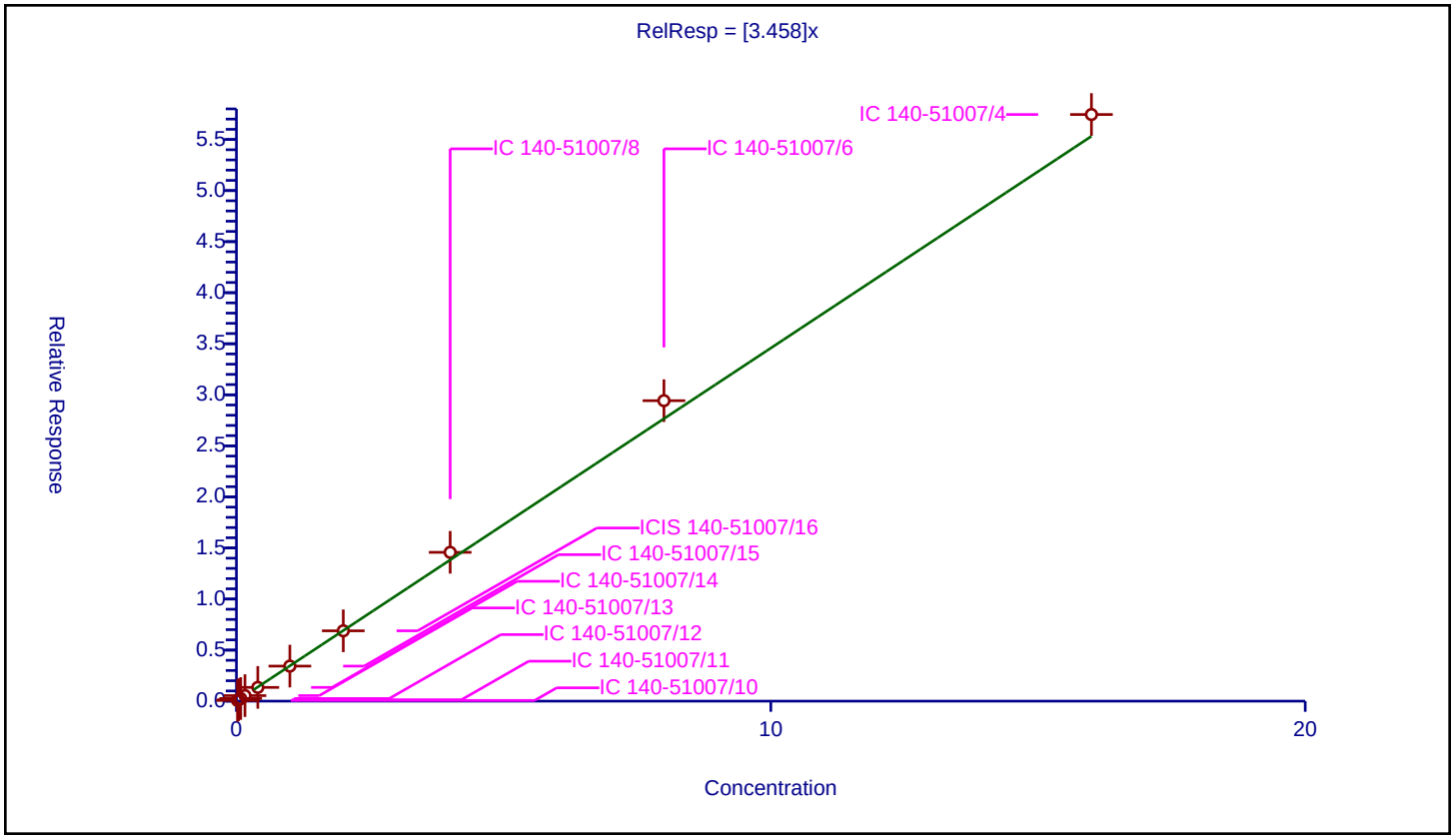
Curve Coefficients

Intercept:	0
Slope:	3.458

Error Coefficients

Standard Error:	1660000
Relative Standard Error:	4.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.068623	4.8	355474.0	3.431137	Y
2	IC 140-51007/11	0.04	0.135898	4.8	340455.0	3.397453	Y
3	IC 140-51007/12	0.08	0.257404	4.8	329450.0	3.217544	Y
4	IC 140-51007/13	0.16	0.540395	4.8	325806.0	3.37747	Y
5	IC 140-51007/14	0.4	1.34582	4.8	320869.0	3.364551	Y
6	IC 140-51007/15	1.0	3.431771	4.8	319729.0	3.431771	Y
7	ICIS 140-51007/16	2.0	6.886536	4.8	324554.0	3.443268	Y
8	IC 140-51007/8	4.0	14.574782	4.8	363415.0	3.643695	Y
9	IC 140-51007/6	8.0	29.424594	4.8	370463.0	3.678074	Y
10	IC 140-51007/4	16.0	57.44888	4.8	356728.0	3.590555	Y



Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

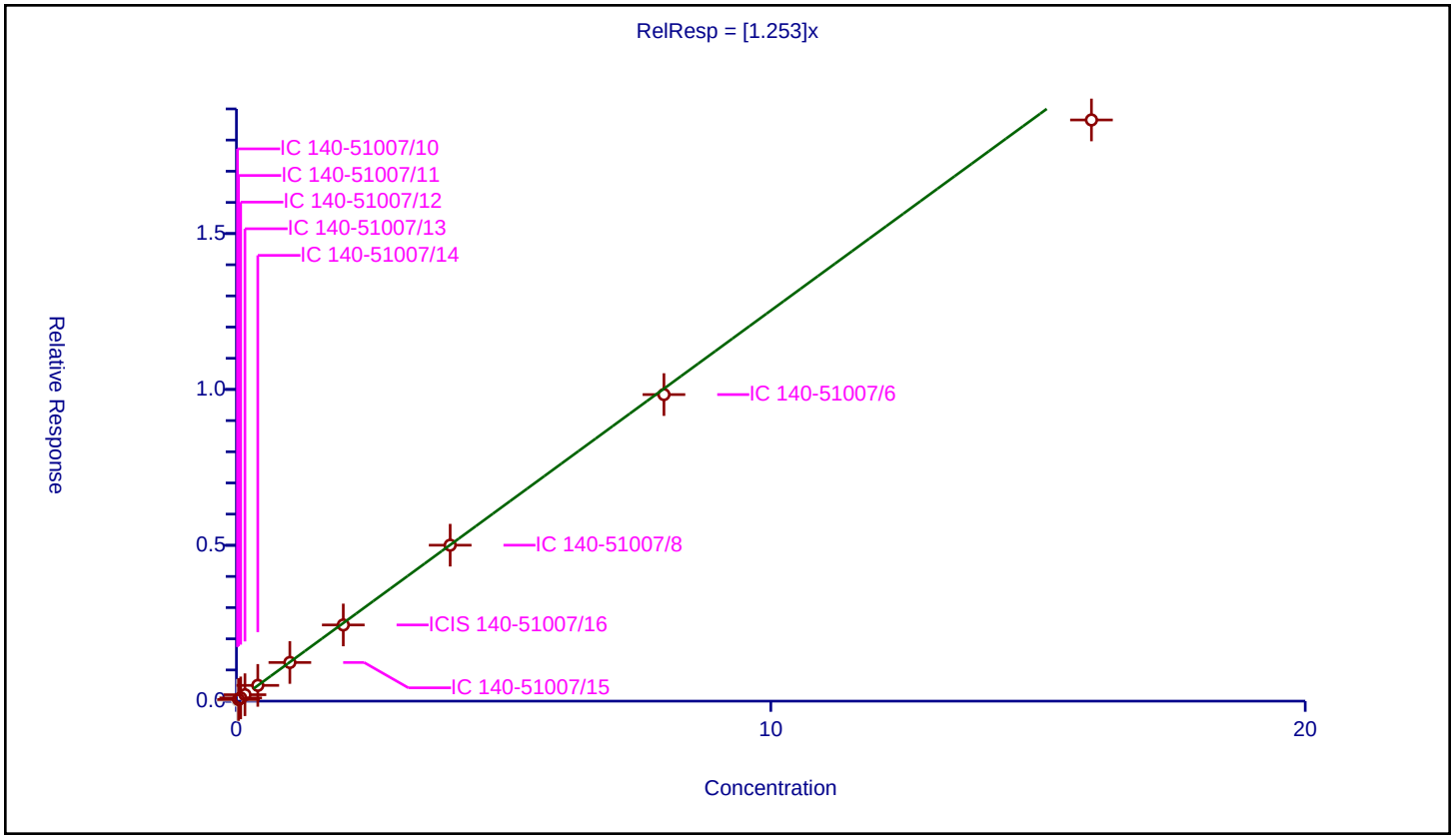
Curve Coefficients

Intercept:	0
Slope:	1.253

Error Coefficients

Standard Error:	578000
Relative Standard Error:	3.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.027168	4.8	355474.0	1.358412	N
2	IC 140-51007/11	0.04	0.052518	4.8	340455.0	1.312949	Y
3	IC 140-51007/12	0.08	0.104188	4.8	329450.0	1.302352	Y
4	IC 140-51007/13	0.16	0.206626	4.8	325806.0	1.291413	Y
5	IC 140-51007/14	0.4	0.504984	4.8	320869.0	1.262459	Y
6	IC 140-51007/15	1.0	1.240636	4.8	319729.0	1.240636	Y
7	ICIS 140-51007/16	2.0	2.444088	4.8	324554.0	1.222044	Y
8	IC 140-51007/8	4.0	5.003126	4.8	363415.0	1.250782	Y
9	IC 140-51007/6	8.0	9.835372	4.8	370463.0	1.229422	Y
10	IC 140-51007/4	16.0	18.645063	4.8	356728.0	1.165316	Y



Calibration / 2-Methylpentane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

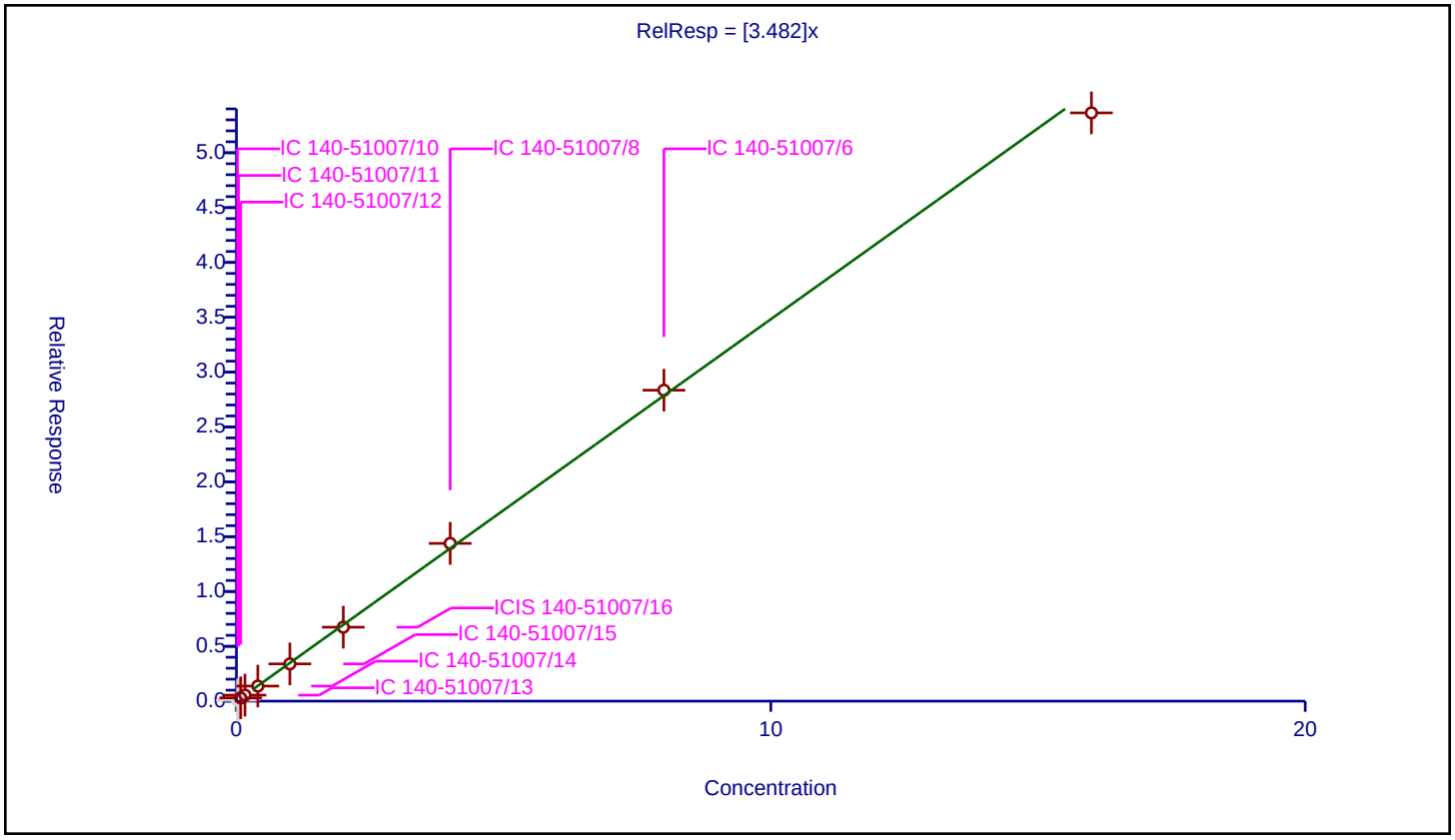
Curve Coefficients

Intercept:	0
Slope:	3.482

Error Coefficients

Standard Error:	1780000
Relative Standard Error:	3.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.080114	4.8	355474.0	4.005694	N
2	IC 140-51007/11	0.04	0.15214	4.8	340455.0	3.803498	N
3	IC 140-51007/12	0.08	0.29916	4.8	329450.0	3.739505	Y
4	IC 140-51007/13	0.16	0.548204	4.8	325806.0	3.426272	Y
5	IC 140-51007/14	0.4	1.373331	4.8	320869.0	3.433326	Y
6	IC 140-51007/15	1.0	3.395185	4.8	319729.0	3.395185	Y
7	ICIS 140-51007/16	2.0	6.743122	4.8	324554.0	3.371561	Y
8	IC 140-51007/8	4.0	14.381799	4.8	363415.0	3.59545	Y
9	IC 140-51007/6	8.0	28.350556	4.8	370463.0	3.543819	Y
10	IC 140-51007/4	16.0	53.636644	4.8	356728.0	3.35229	Y



Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

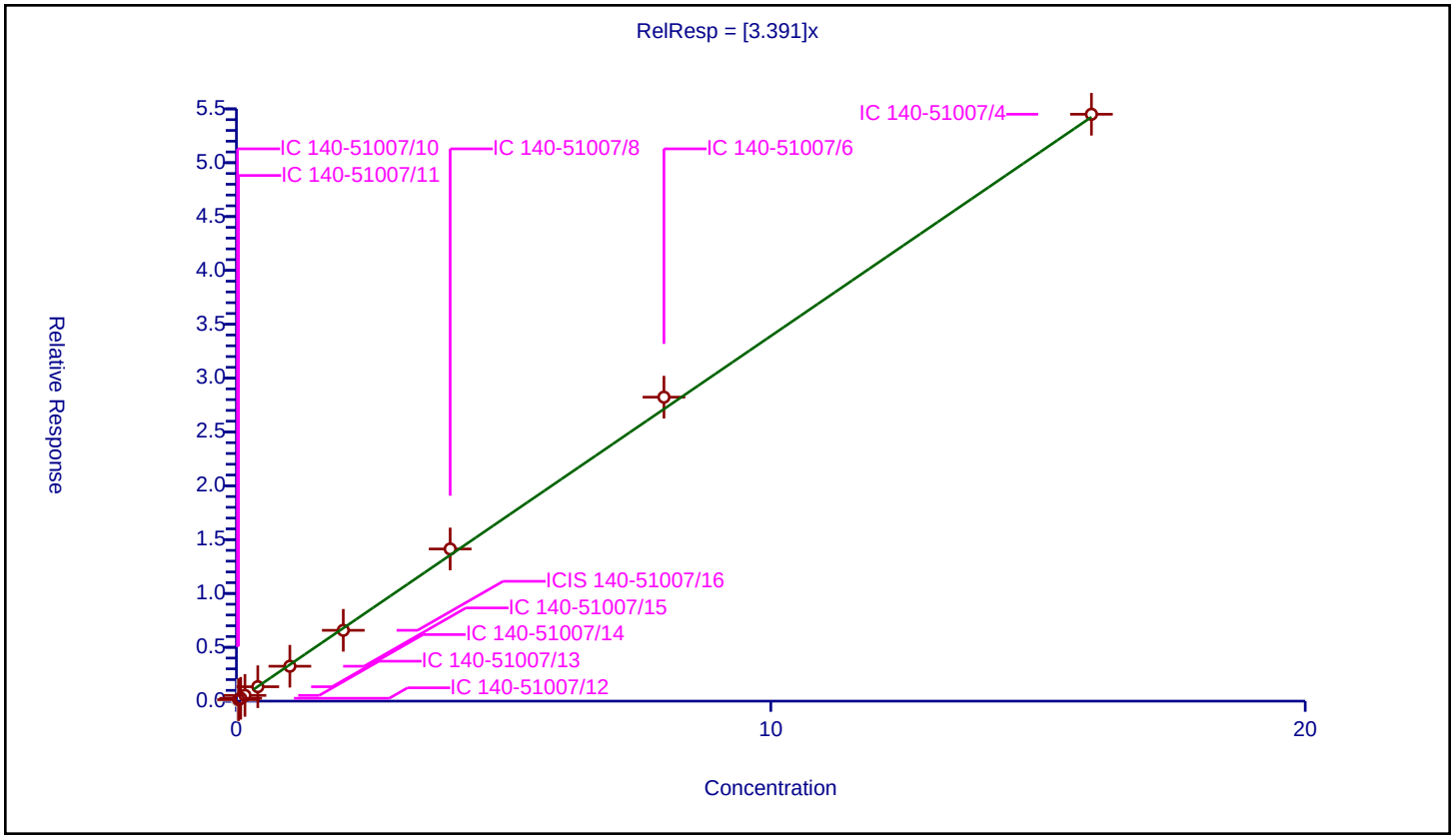
Curve Coefficients

Intercept:	0
Slope:	3.391

Error Coefficients

Standard Error:	1680000
Relative Standard Error:	3.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.079074	4.8	355474.0	3.953707	N
2	IC 140-51007/11	0.04	0.141016	4.8	340455.0	3.5254	Y
3	IC 140-51007/12	0.08	0.265213	4.8	329450.0	3.315162	Y
4	IC 140-51007/13	0.16	0.532557	4.8	325806.0	3.328484	Y
5	IC 140-51007/14	0.4	1.339133	4.8	320869.0	3.347834	Y
6	IC 140-51007/15	1.0	3.241395	4.8	319729.0	3.241395	Y
7	ICIS 140-51007/16	2.0	6.57813	4.8	324554.0	3.289065	Y
8	IC 140-51007/8	4.0	14.130609	4.8	363415.0	3.532652	Y
9	IC 140-51007/6	8.0	28.229358	4.8	370463.0	3.52867	Y
10	IC 140-51007/4	16.0	54.501828	4.8	356728.0	3.406364	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

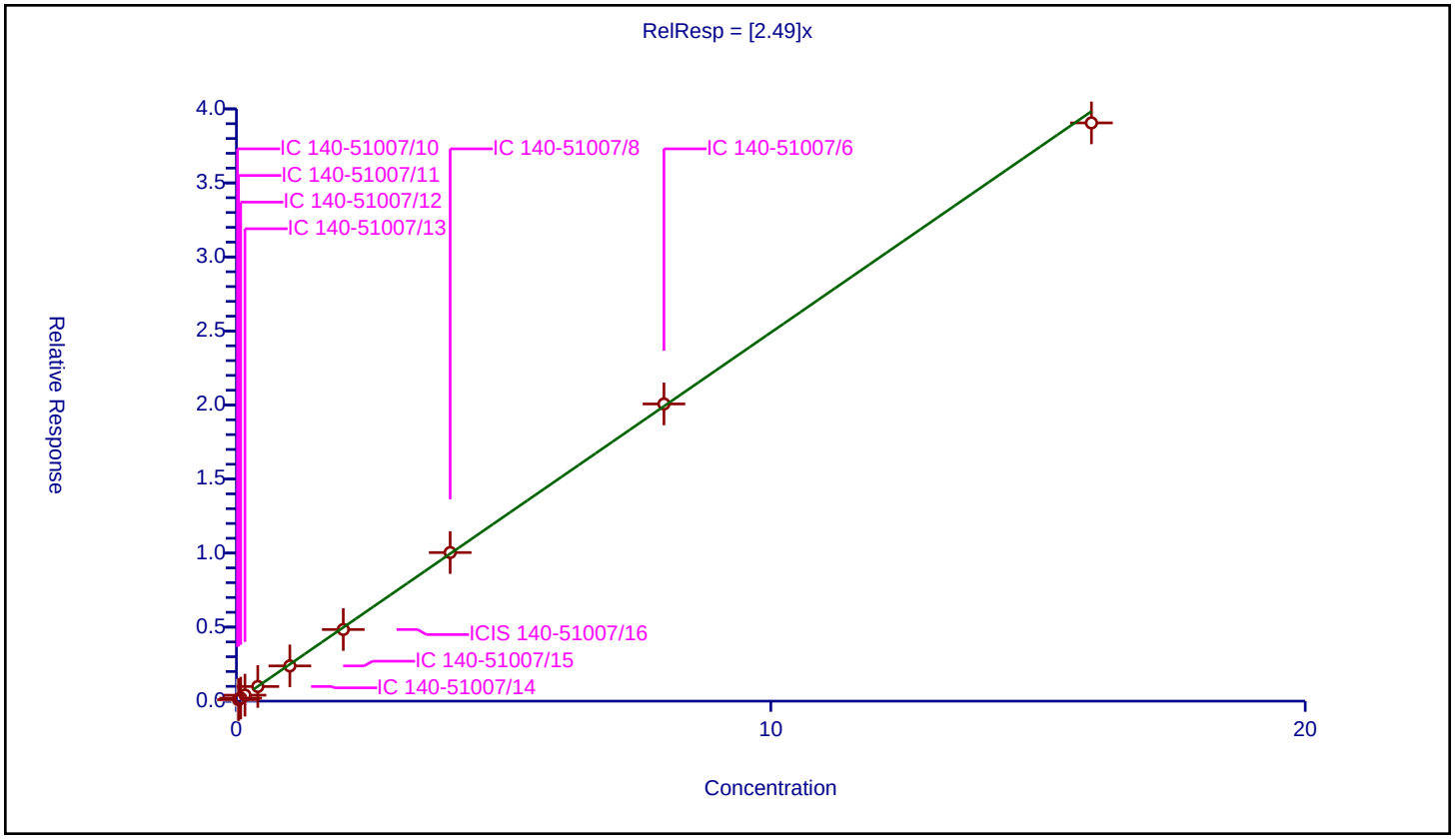
Curve Coefficients

Intercept:	0
Slope:	2.49

Error Coefficients

Standard Error:	1200000
Relative Standard Error:	2.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.059697	4.8	355474.0	2.98486	N
2	IC 140-51007/11	0.04	0.104021	4.8	340455.0	2.60052	Y
3	IC 140-51007/12	0.08	0.203991	4.8	329450.0	2.549886	Y
4	IC 140-51007/13	0.16	0.404118	4.8	325806.0	2.525736	Y
5	IC 140-51007/14	0.4	0.989278	4.8	320869.0	2.473196	Y
6	IC 140-51007/15	1.0	2.37893	4.8	319729.0	2.37893	Y
7	ICIS 140-51007/16	2.0	4.83761	4.8	324554.0	2.418805	Y
8	IC 140-51007/8	4.0	10.036301	4.8	363415.0	2.509075	Y
9	IC 140-51007/6	8.0	20.073091	4.8	370463.0	2.509136	Y
10	IC 140-51007/4	16.0	39.053553	4.8	356728.0	2.440847	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

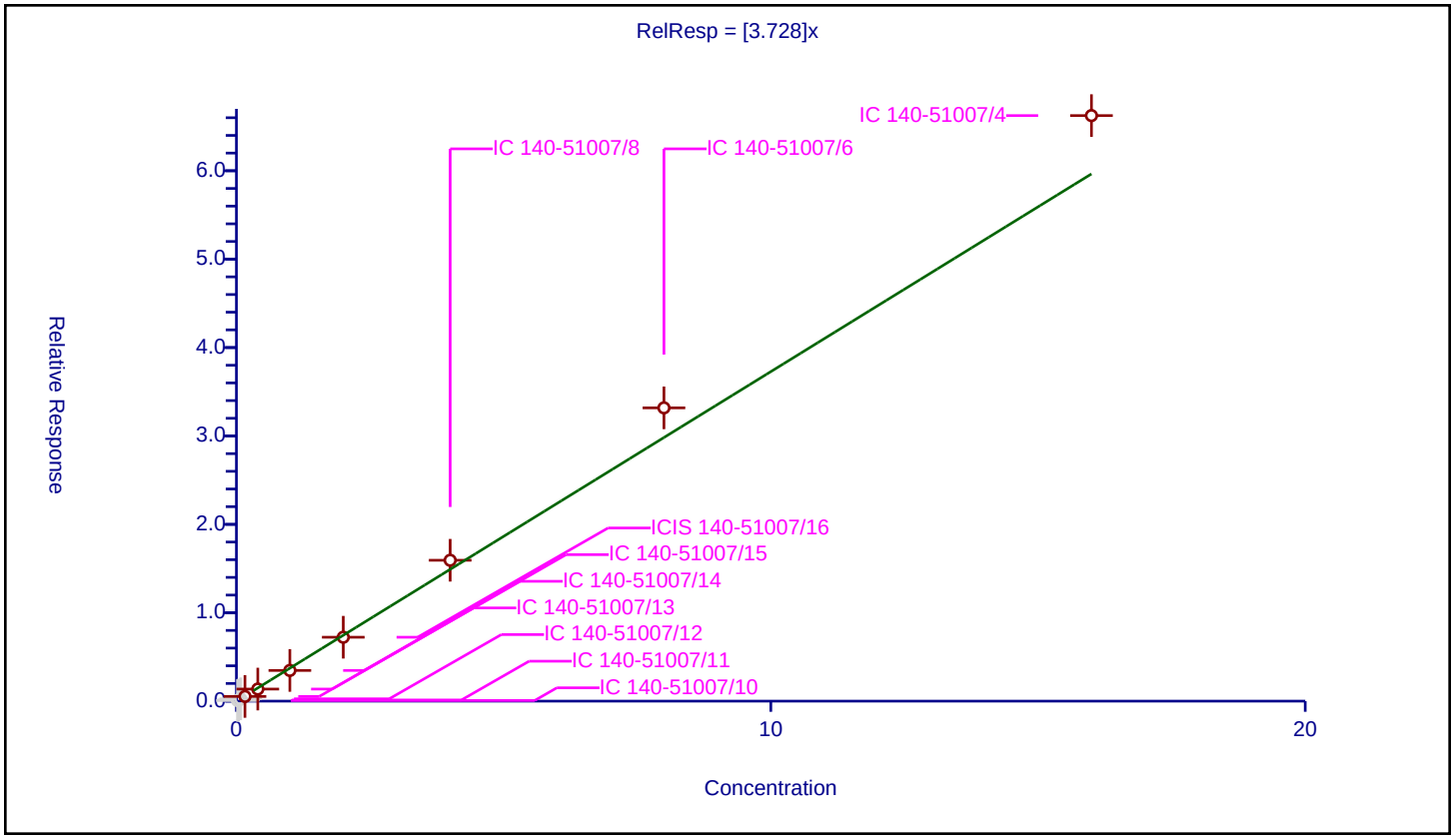
Curve Coefficients

Intercept:	0
Slope:	3.728

Error Coefficients

Standard Error:	2330000
Relative Standard Error:	9.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.070783	4.8	355474.0	3.539162	N
2	IC 140-51007/11	0.04	0.132035	4.8	340455.0	3.300877	N
3	IC 140-51007/12	0.08	0.262386	4.8	329450.0	3.27983	N
4	IC 140-51007/13	0.16	0.531394	4.8	325806.0	3.32121	Y
5	IC 140-51007/14	0.4	1.365522	4.8	320869.0	3.413804	Y
6	IC 140-51007/15	1.0	3.472711	4.8	319729.0	3.472711	Y
7	ICIS 140-51007/16	2.0	7.229106	4.8	324554.0	3.614553	Y
8	IC 140-51007/8	4.0	15.937178	4.8	363415.0	3.984295	Y
9	IC 140-51007/6	8.0	33.179255	4.8	370463.0	4.147407	Y
10	IC 140-51007/4	16.0	66.240398	4.8	356728.0	4.140025	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

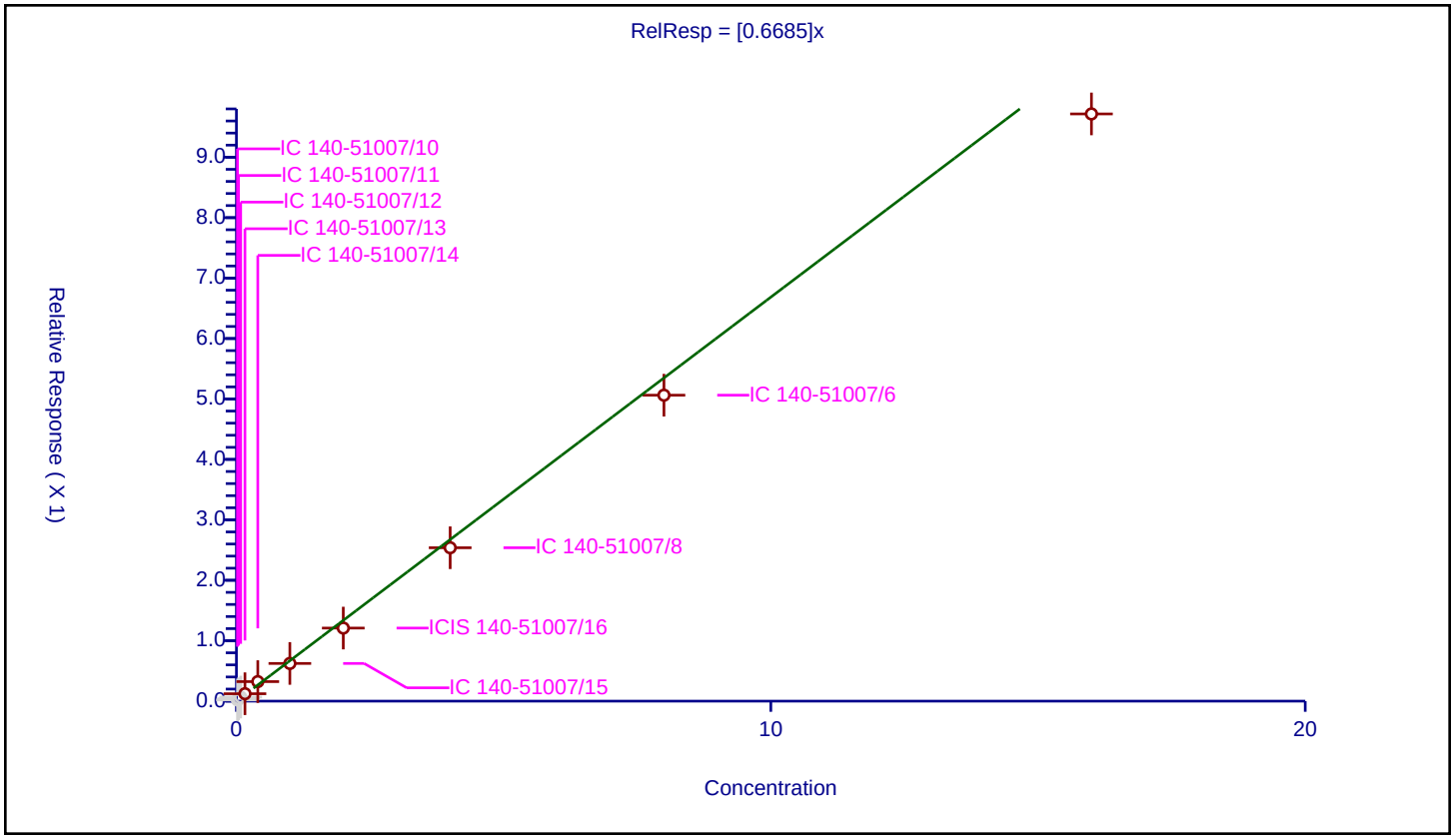
Curve Coefficients

Intercept:	0
Slope:	0.6685

Error Coefficients

Standard Error:	346000
Relative Standard Error:	12.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.019566	4.8	355474.0	0.978299	N
2	IC 140-51007/11	0.04	0.038983	4.8	340455.0	0.974578	N
3	IC 140-51007/12	0.08	0.067239	4.8	329450.0	0.840492	N
4	IC 140-51007/13	0.16	0.122826	4.8	325806.0	0.767665	Y
5	IC 140-51007/14	0.4	0.323422	4.8	320869.0	0.808554	Y
6	IC 140-51007/15	1.0	0.623808	4.8	319729.0	0.623808	Y
7	ICIS 140-51007/16	2.0	1.209221	4.8	324554.0	0.604611	Y
8	IC 140-51007/8	4.0	2.538282	4.8	363415.0	0.63457	Y
9	IC 140-51007/6	8.0	5.062828	4.8	370463.0	0.632853	Y
10	IC 140-51007/4	16.0	9.716916	4.8	356728.0	0.607307	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

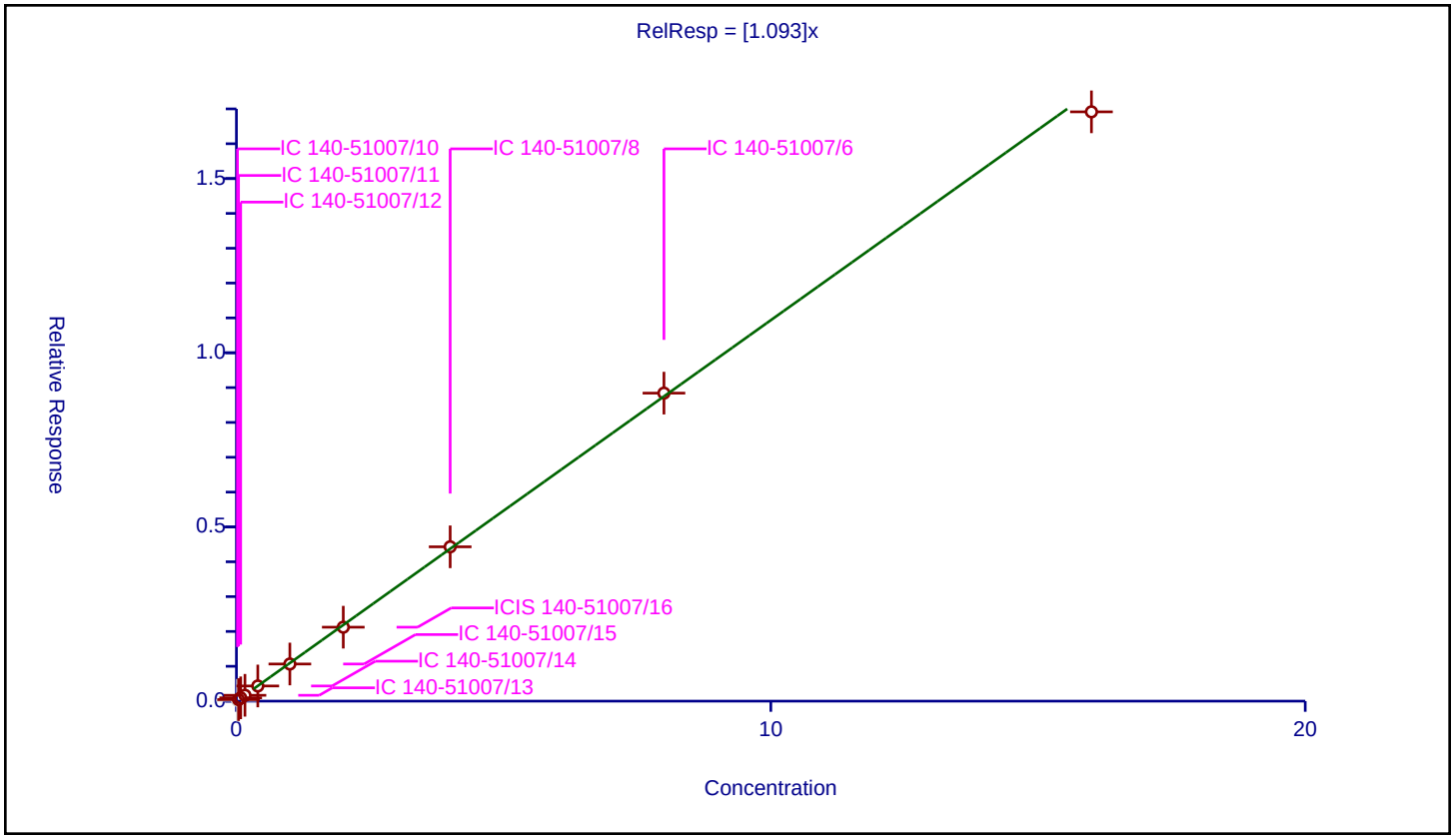
Curve Coefficients

Intercept:	0
Slope:	1.093

Error Coefficients

Standard Error:	523000
Relative Standard Error:	4.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.024468	4.8	355474.0	1.223381	N
2	IC 140-51007/11	0.04	0.044538	4.8	340455.0	1.113451	Y
3	IC 140-51007/12	0.08	0.095388	4.8	329450.0	1.192351	Y
4	IC 140-51007/13	0.16	0.167982	4.8	325806.0	1.049889	Y
5	IC 140-51007/14	0.4	0.435123	4.8	320869.0	1.087808	Y
6	IC 140-51007/15	1.0	1.066368	4.8	319729.0	1.066368	Y
7	ICIS 140-51007/16	2.0	2.122948	4.8	324554.0	1.061474	Y
8	IC 140-51007/8	4.0	4.429805	4.8	363415.0	1.107451	Y
9	IC 140-51007/6	8.0	8.840889	4.8	370463.0	1.105111	Y
10	IC 140-51007/4	16.0	16.915463	4.8	356728.0	1.057216	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

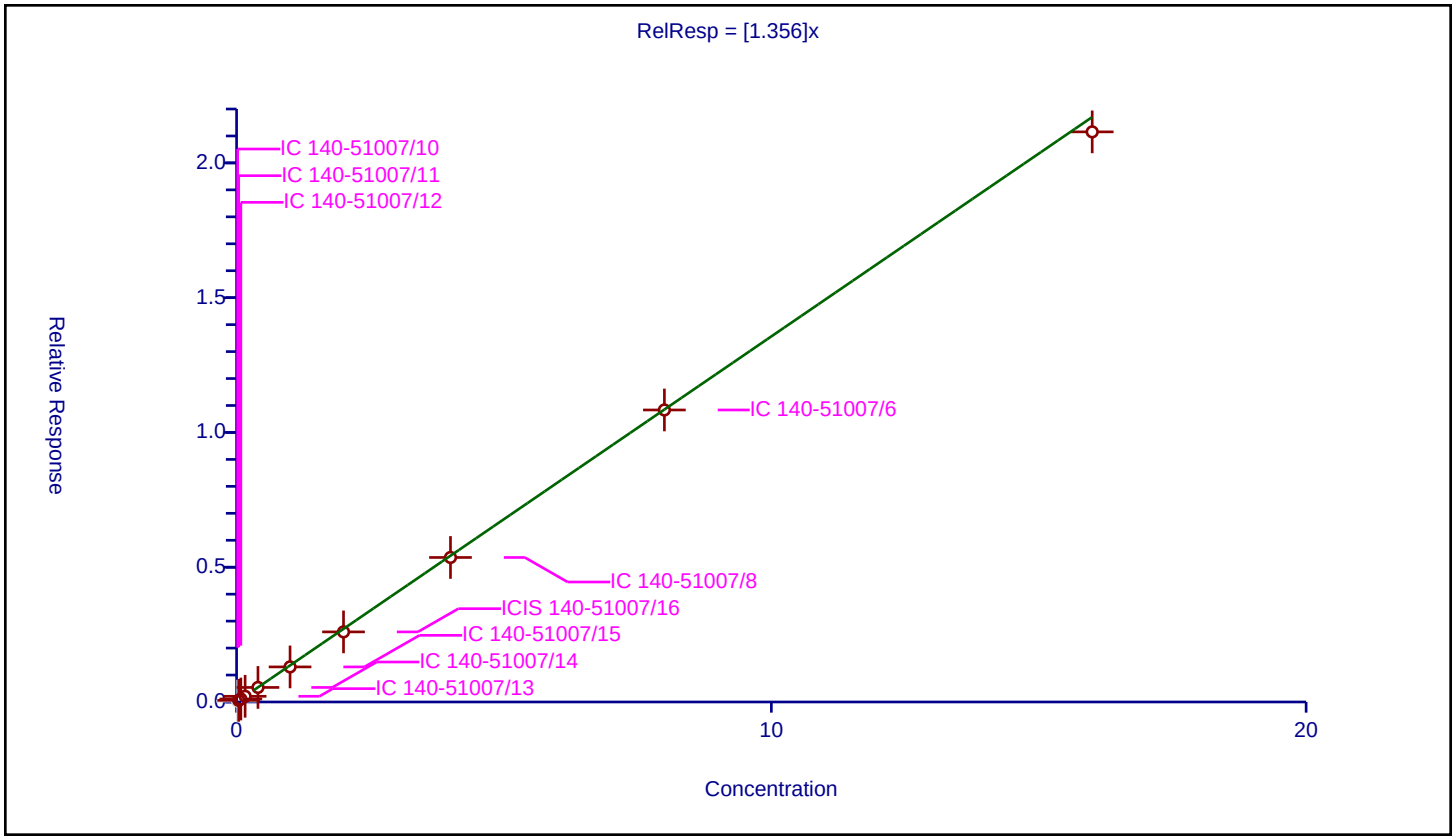
Curve Coefficients

Intercept:	0
Slope:	1.356

Error Coefficients

Standard Error:	650000
Relative Standard Error:	5.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.032286	4.8	355474.0	1.614295	N
2	IC 140-51007/11	0.04	0.0614	4.8	340455.0	1.535005	Y
3	IC 140-51007/12	0.08	0.110686	4.8	329450.0	1.383579	Y
4	IC 140-51007/13	0.16	0.21137	4.8	325806.0	1.321062	Y
5	IC 140-51007/14	0.4	0.539615	4.8	320869.0	1.349037	Y
6	IC 140-51007/15	1.0	1.301362	4.8	319729.0	1.301362	Y
7	ICIS 140-51007/16	2.0	2.600413	4.8	324554.0	1.300206	Y
8	IC 140-51007/8	4.0	5.361619	4.8	363415.0	1.340405	Y
9	IC 140-51007/6	8.0	10.833626	4.8	370463.0	1.354203	Y
10	IC 140-51007/4	16.0	21.152156	4.8	356728.0	1.32201	Y



Calibration / Ethyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

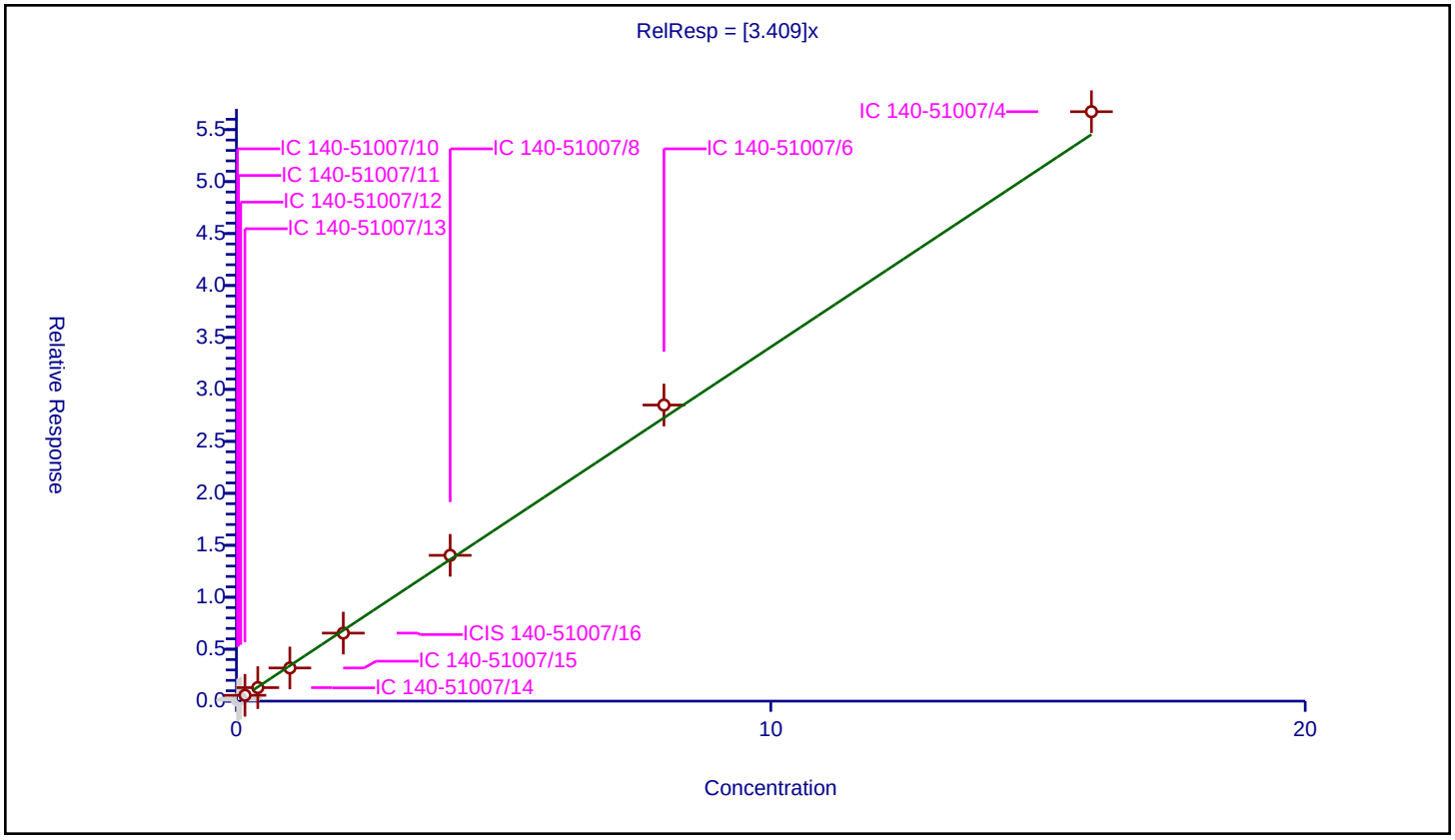
Curve Coefficients

Intercept:	0
Slope:	3.409

Error Coefficients

Standard Error:	2000000
Relative Standard Error:	4.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.091159	4.8	355474.0	4.55797	N
2	IC 140-51007/11	0.04	0.153211	4.8	340455.0	3.830286	N
3	IC 140-51007/12	0.08	0.291905	4.8	329450.0	3.648809	N
4	IC 140-51007/13	0.16	0.563805	4.8	325806.0	3.523784	Y
5	IC 140-51007/14	0.4	1.301107	4.8	320869.0	3.252767	Y
6	IC 140-51007/15	1.0	3.192859	4.8	319729.0	3.192859	Y
7	ICIS 140-51007/16	2.0	6.548403	4.8	324554.0	3.274202	Y
8	IC 140-51007/8	4.0	14.032645	4.8	363415.0	3.508161	Y
9	IC 140-51007/6	8.0	28.497162	4.8	370463.0	3.562145	Y
10	IC 140-51007/4	16.0	56.73152	4.8	356728.0	3.54572	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

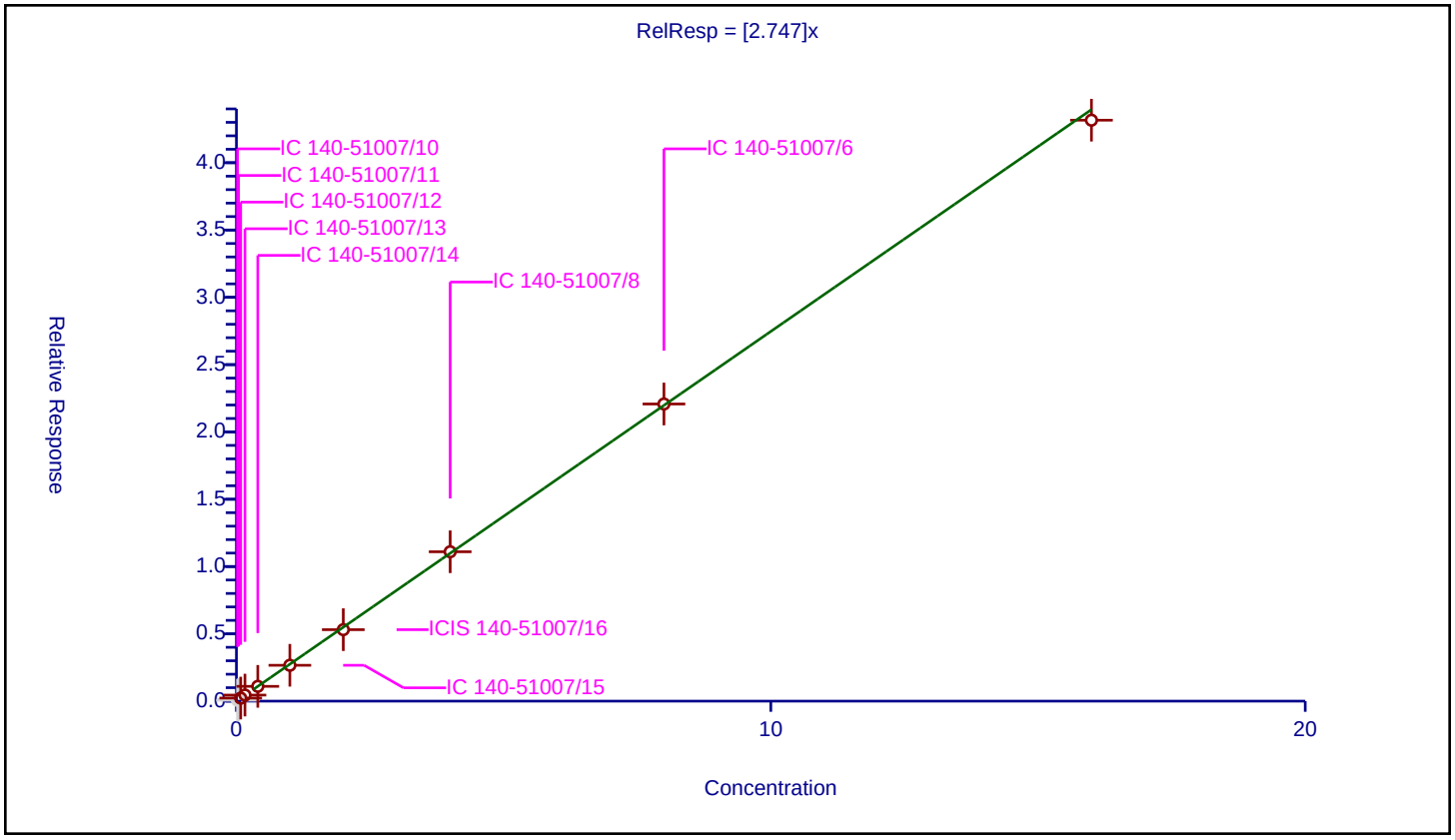
Curve Coefficients

Intercept:	0
Slope:	2.747

Error Coefficients

Standard Error:	1420000
Relative Standard Error:	2.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.068798	4.8	355474.0	3.439914	N
2	IC 140-51007/11	0.04	0.122448	4.8	340455.0	3.061198	N
3	IC 140-51007/12	0.08	0.228453	4.8	329450.0	2.855669	Y
4	IC 140-51007/13	0.16	0.450938	4.8	325806.0	2.818364	Y
5	IC 140-51007/14	0.4	1.099514	4.8	320869.0	2.748785	Y
6	IC 140-51007/15	1.0	2.665267	4.8	319729.0	2.665267	Y
7	ICIS 140-51007/16	2.0	5.309277	4.8	324554.0	2.654639	Y
8	IC 140-51007/8	4.0	11.098465	4.8	363415.0	2.774616	Y
9	IC 140-51007/6	8.0	22.075377	4.8	370463.0	2.759422	Y
10	IC 140-51007/4	16.0	43.161059	4.8	356728.0	2.697566	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

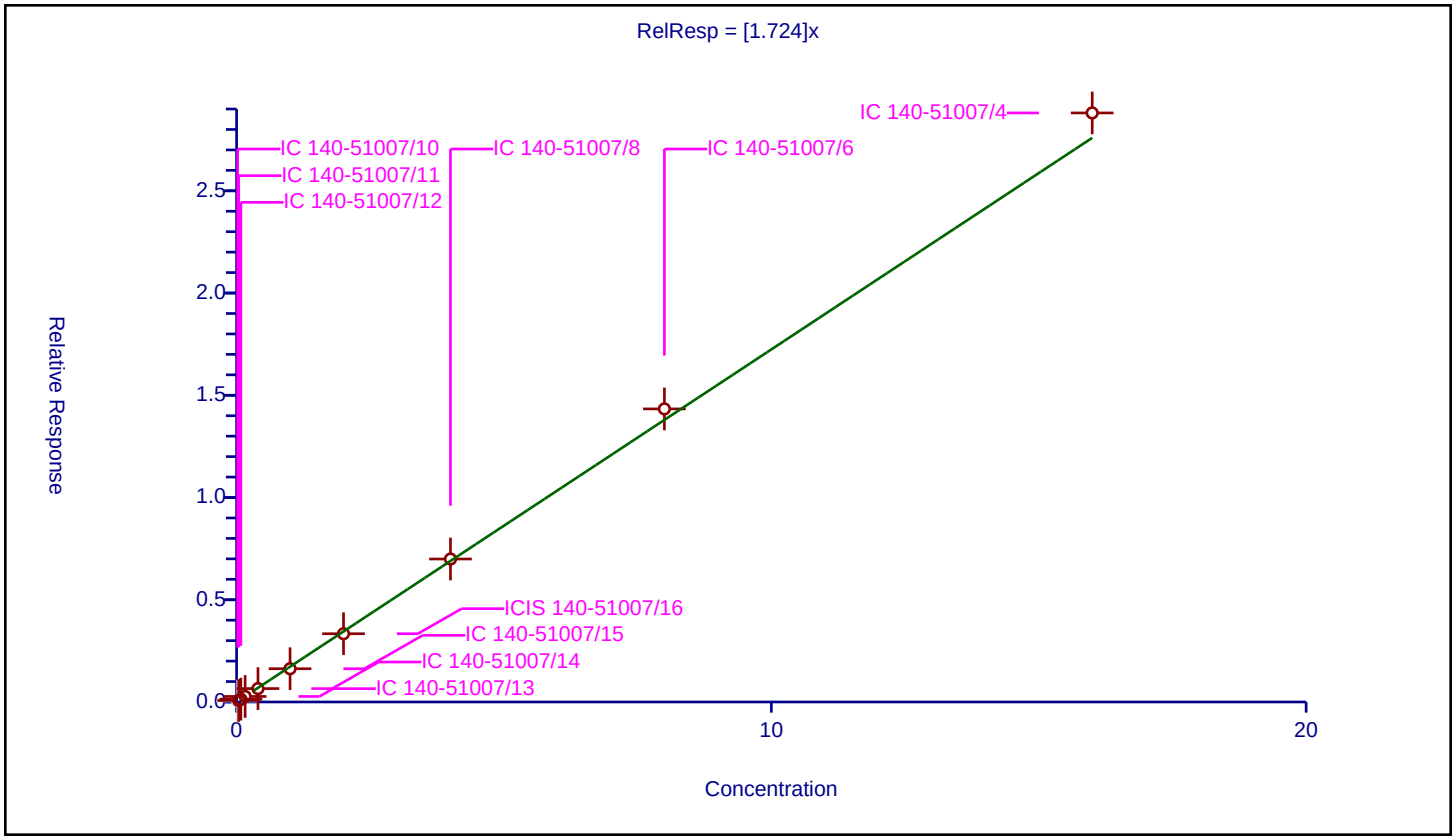
Curve Coefficients

Intercept:	0
Slope:	1.724

Error Coefficients

Standard Error:	877000
Relative Standard Error:	4.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.047355	4.8	355474.0	2.367768	N
2	IC 140-51007/11	0.04	0.073088	4.8	340455.0	1.827202	Y
3	IC 140-51007/12	0.08	0.138238	4.8	329450.0	1.727971	Y
4	IC 140-51007/13	0.16	0.270257	4.8	325806.0	1.689103	Y
5	IC 140-51007/14	0.4	0.655161	4.8	320869.0	1.637902	Y
6	IC 140-51007/15	1.0	1.627243	4.8	319729.0	1.627243	Y
7	ICIS 140-51007/16	2.0	3.338114	4.8	324554.0	1.669057	Y
8	IC 140-51007/8	4.0	6.99202	4.8	363415.0	1.748005	Y
9	IC 140-51007/6	8.0	14.332871	4.8	370463.0	1.791609	Y
10	IC 140-51007/4	16.0	28.808827	4.8	356728.0	1.800552	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

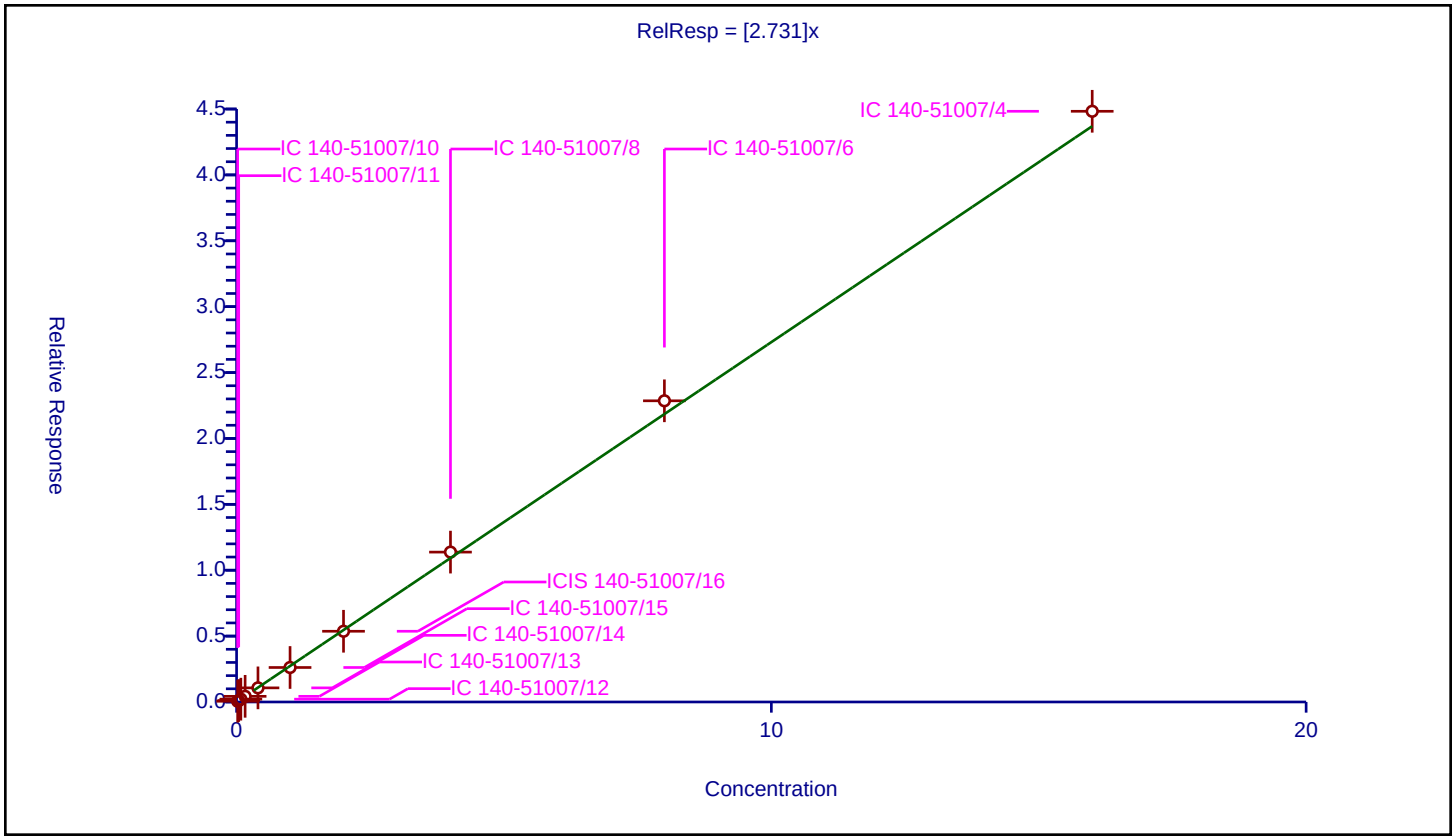
Curve Coefficients

Intercept:	0
Slope:	2.731

Error Coefficients

Standard Error:	1300000
Relative Standard Error:	3.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.054715	4.8	355474.0	2.735728	Y
2	IC 140-51007/11	0.04	0.109956	4.8	340455.0	2.74891	Y
3	IC 140-51007/12	0.08	0.212616	4.8	329450.0	2.657702	Y
4	IC 140-51007/13	0.16	0.429782	4.8	325806.0	2.686138	Y
5	IC 140-51007/14	0.4	1.070672	4.8	320869.0	2.676681	Y
6	IC 140-51007/15	1.0	2.618022	4.8	319729.0	2.618022	Y
7	ICIS 140-51007/16	2.0	5.366942	4.8	324554.0	2.683471	Y
8	IC 140-51007/8	4.0	11.373232	4.8	363415.0	2.843308	Y
9	IC 140-51007/6	8.0	22.856307	4.8	370463.0	2.857038	Y
10	IC 140-51007/4	16.0	44.827566	4.8	356728.0	2.801723	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

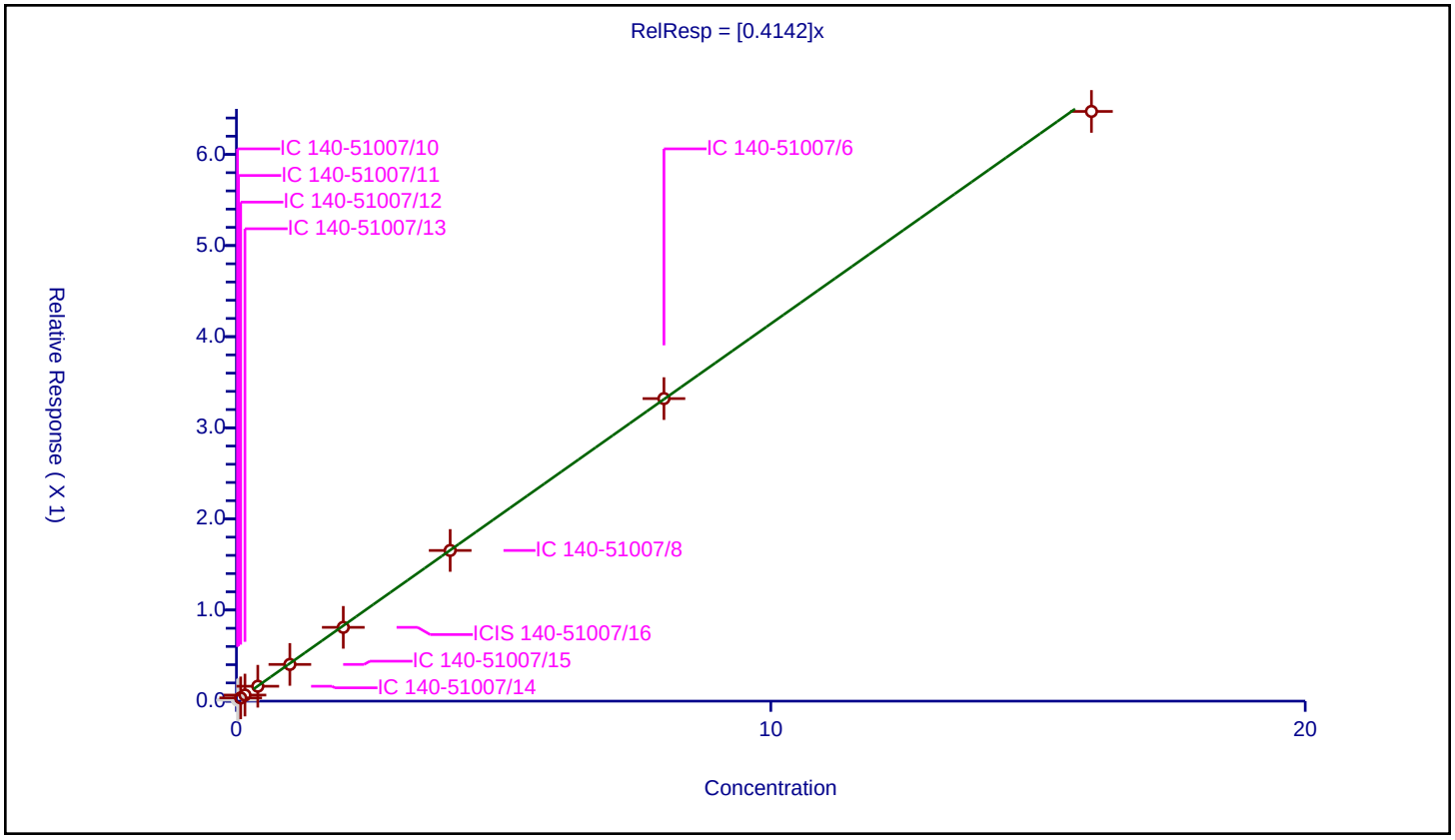
Curve Coefficients

Intercept:	0
Slope:	0.4142

Error Coefficients

Standard Error:	1050000
Relative Standard Error:	3.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.010849	4.8	1710051.0	0.54244	N
2	IC 140-51007/11	0.04	0.018917	4.8	1643715.0	0.472929	N
3	IC 140-51007/12	0.08	0.035775	4.8	1563788.0	0.447183	Y
4	IC 140-51007/13	0.16	0.066662	4.8	1554871.0	0.416639	Y
5	IC 140-51007/14	0.4	0.163459	4.8	1521760.0	0.408648	Y
6	IC 140-51007/15	1.0	0.40287	4.8	1510819.0	0.40287	Y
7	ICIS 140-51007/16	2.0	0.809805	4.8	1539588.0	0.404903	Y
8	IC 140-51007/8	4.0	1.653808	4.8	1780397.0	0.413452	Y
9	IC 140-51007/6	8.0	3.320513	4.8	1816619.0	0.415064	Y
10	IC 140-51007/4	16.0	6.472168	4.8	1775563.0	0.404511	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

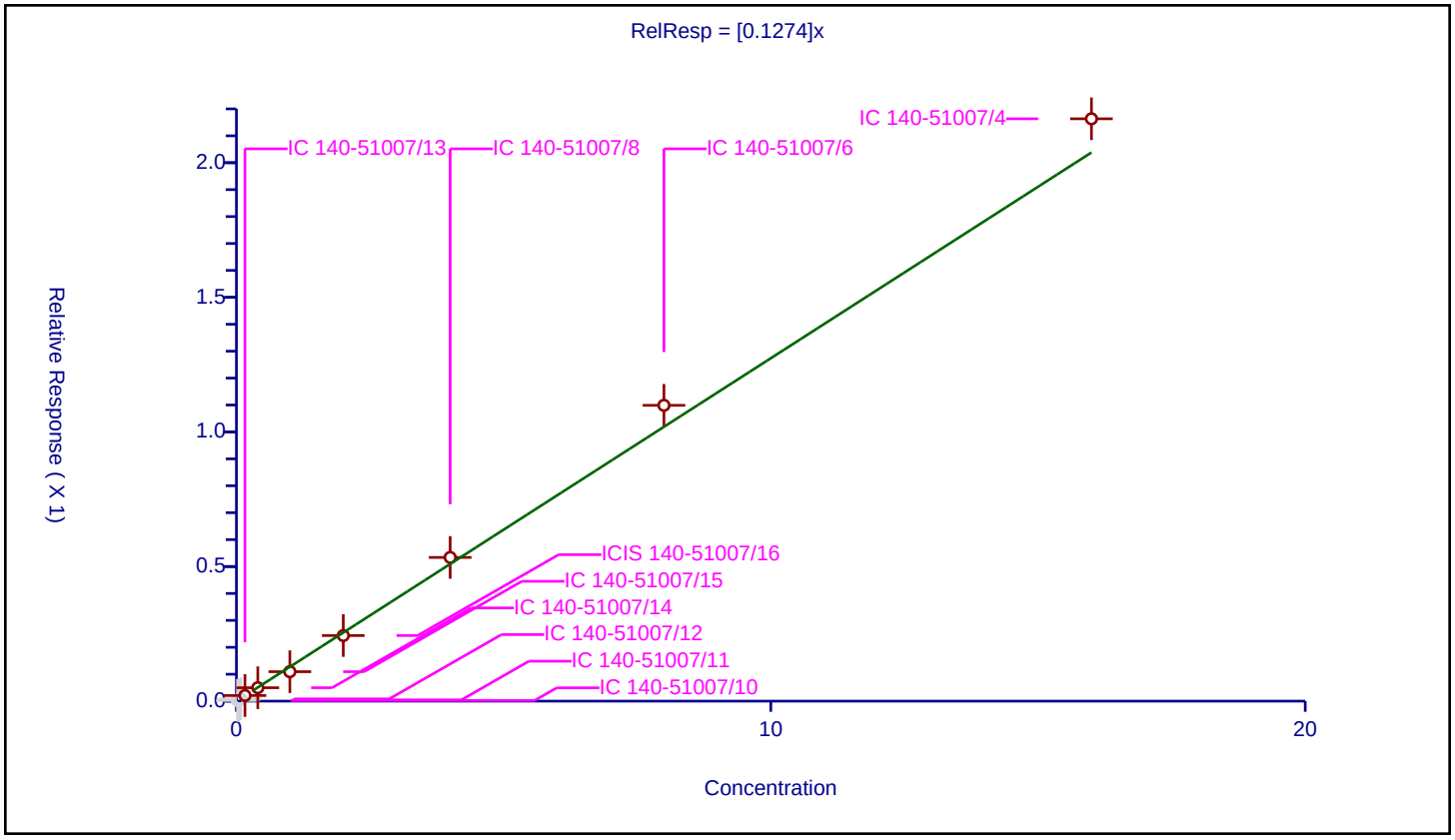
Curve Coefficients

Intercept:	0
Slope:	0.1274

Error Coefficients

Standard Error:	379000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.002526	4.8	1710051.0	0.126312	N
2	IC 140-51007/11	0.04	0.00471	4.8	1643715.0	0.117758	N
3	IC 140-51007/12	0.08	0.008343	4.8	1563788.0	0.104285	N
4	IC 140-51007/13	0.16	0.020791	4.8	1554871.0	0.129946	Y
5	IC 140-51007/14	0.4	0.049796	4.8	1521760.0	0.12449	Y
6	IC 140-51007/15	1.0	0.1094	4.8	1510819.0	0.1094	Y
7	ICIS 140-51007/16	2.0	0.243615	4.8	1539588.0	0.121808	Y
8	IC 140-51007/8	4.0	0.533765	4.8	1780397.0	0.133441	Y
9	IC 140-51007/6	8.0	1.098815	4.8	1816619.0	0.137352	Y
10	IC 140-51007/4	16.0	2.163203	4.8	1775563.0	0.1352	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

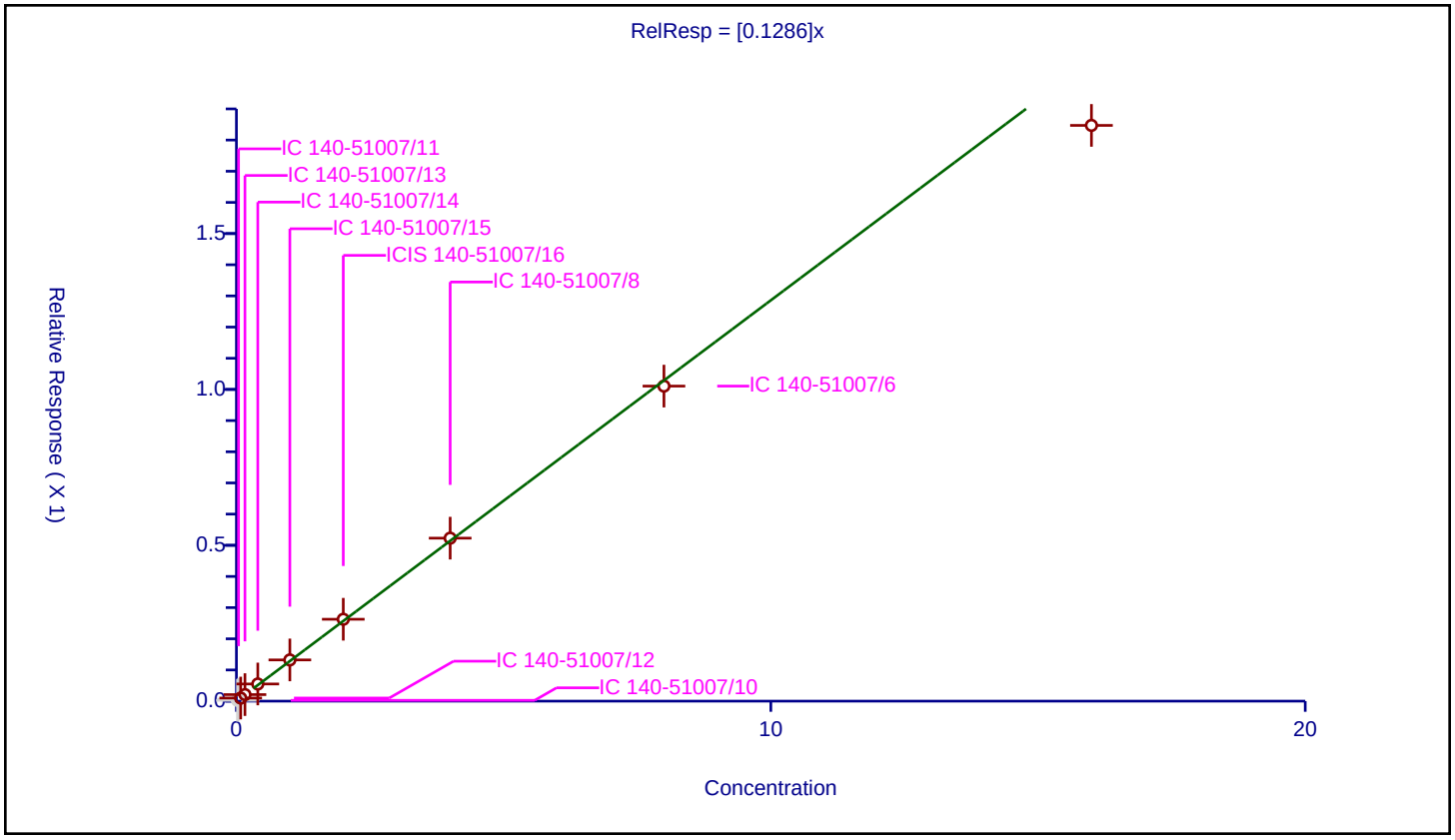
Curve Coefficients

Intercept:	0
Slope:	0.1286

Error Coefficients

Standard Error:	307000
Relative Standard Error:	5.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.002571	4.8	1710051.0	0.128558	N
2	IC 140-51007/11	0.04	0.005694	4.8	1643715.0	0.14236	N
3	IC 140-51007/12	0.08	0.00993	4.8	1563788.0	0.124122	Y
4	IC 140-51007/13	0.16	0.020946	4.8	1554871.0	0.130911	Y
5	IC 140-51007/14	0.4	0.05506	4.8	1521760.0	0.137651	Y
6	IC 140-51007/15	1.0	0.132189	4.8	1510819.0	0.132189	Y
7	ICIS 140-51007/16	2.0	0.262693	4.8	1539588.0	0.131346	Y
8	IC 140-51007/8	4.0	0.522881	4.8	1780397.0	0.13072	Y
9	IC 140-51007/6	8.0	1.010711	4.8	1816619.0	0.126339	Y
10	IC 140-51007/4	16.0	1.846981	4.8	1775563.0	0.115436	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

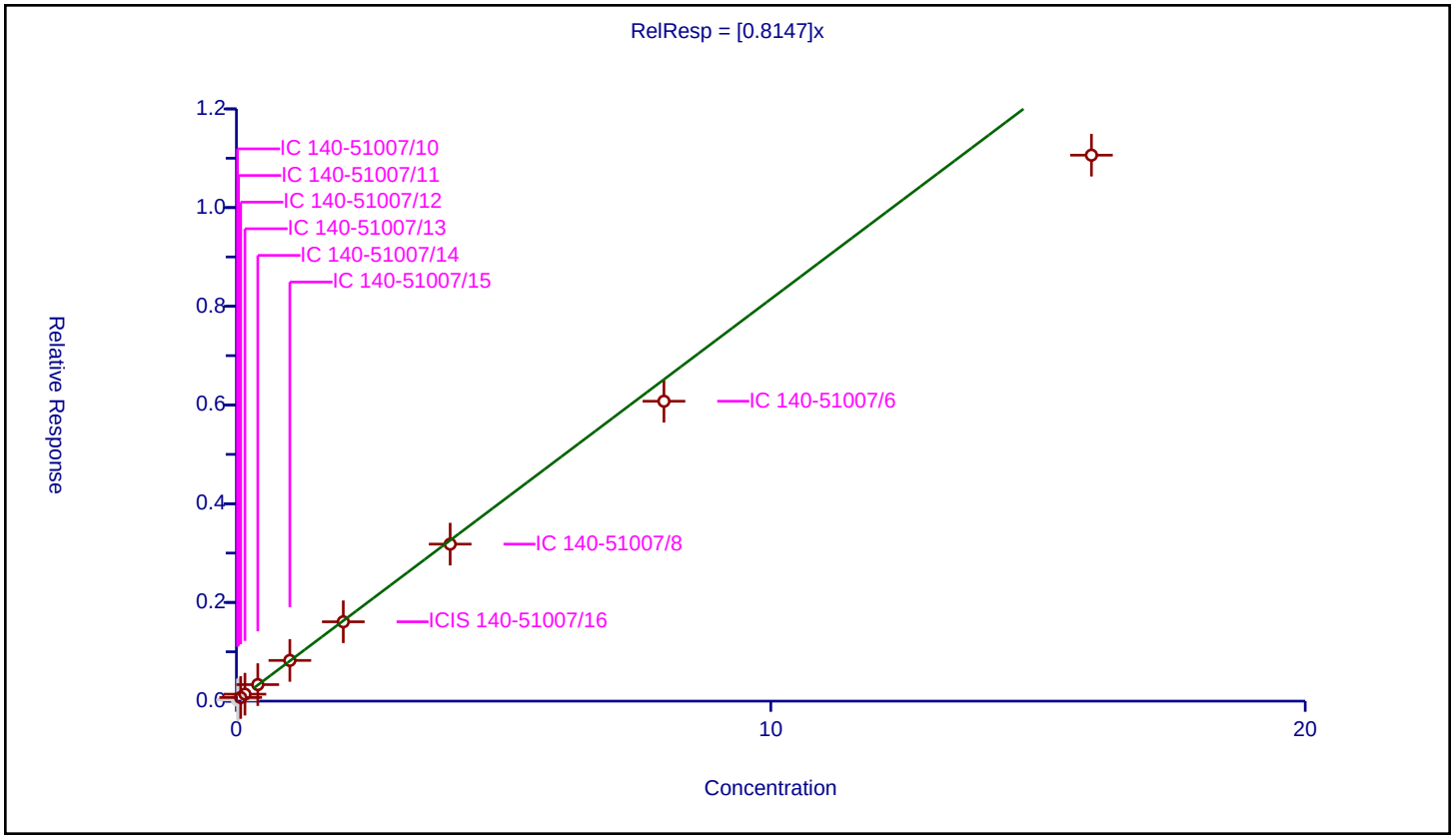
Curve Coefficients

Intercept:	0
Slope:	0.8147

Error Coefficients

Standard Error:	1840000
Relative Standard Error:	8.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.023031	4.8	1710051.0	1.151545	N
2	IC 140-51007/11	0.04	0.040121	4.8	1643715.0	1.003021	N
3	IC 140-51007/12	0.08	0.073907	4.8	1563788.0	0.923834	Y
4	IC 140-51007/13	0.16	0.140891	4.8	1554871.0	0.880568	Y
5	IC 140-51007/14	0.4	0.3351	4.8	1521760.0	0.837751	Y
6	IC 140-51007/15	1.0	0.824943	4.8	1510819.0	0.824943	Y
7	ICIS 140-51007/16	2.0	1.607988	4.8	1539588.0	0.803994	Y
8	IC 140-51007/8	4.0	3.18158	4.8	1780397.0	0.795395	Y
9	IC 140-51007/6	8.0	6.076957	4.8	1816619.0	0.75962	Y
10	IC 140-51007/4	16.0	11.062514	4.8	1775563.0	0.691407	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

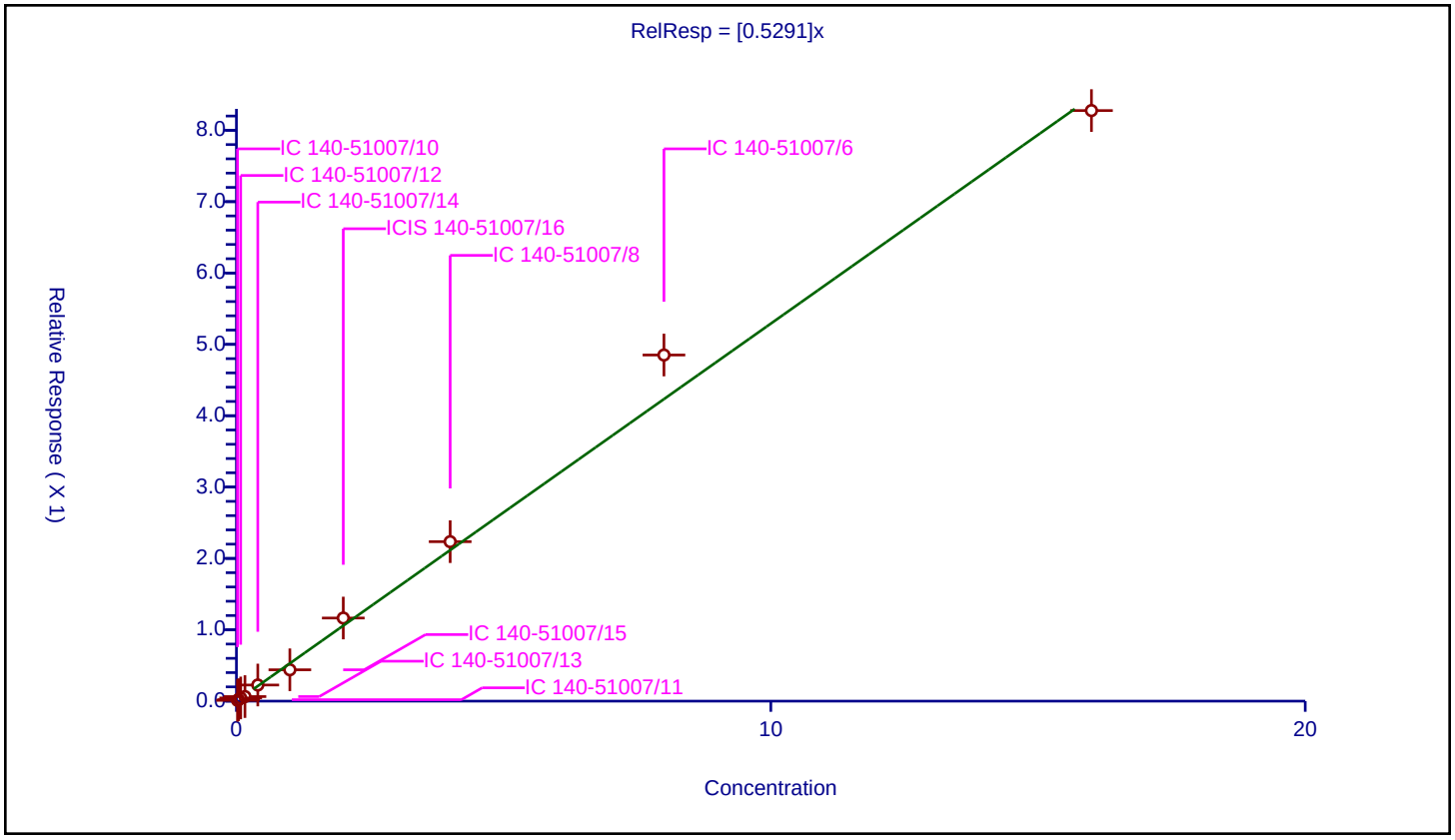
Curve Coefficients

Intercept:	0
Slope:	0.5291

Error Coefficients

Standard Error:	1230000
Relative Standard Error:	12.2
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.011115	4.8	1710051.0	0.555773	Y
2	IC 140-51007/11	0.04	0.020336	4.8	1643715.0	0.508409	Y
3	IC 140-51007/12	0.08	0.04452	4.8	1563788.0	0.556495	Y
4	IC 140-51007/13	0.16	0.064063	4.8	1554871.0	0.400393	Y
5	IC 140-51007/14	0.4	0.226159	4.8	1521760.0	0.565398	Y
6	IC 140-51007/15	1.0	0.439585	4.8	1510819.0	0.439585	Y
7	ICIS 140-51007/16	2.0	1.164798	4.8	1539588.0	0.582399	Y
8	IC 140-51007/8	4.0	2.234934	4.8	1780397.0	0.558734	Y
9	IC 140-51007/6	8.0	4.850734	4.8	1816619.0	0.606342	Y
10	IC 140-51007/4	16.0	8.276553	4.8	1775563.0	0.517285	Y



Calibration / 2,3-Dimethylpentane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

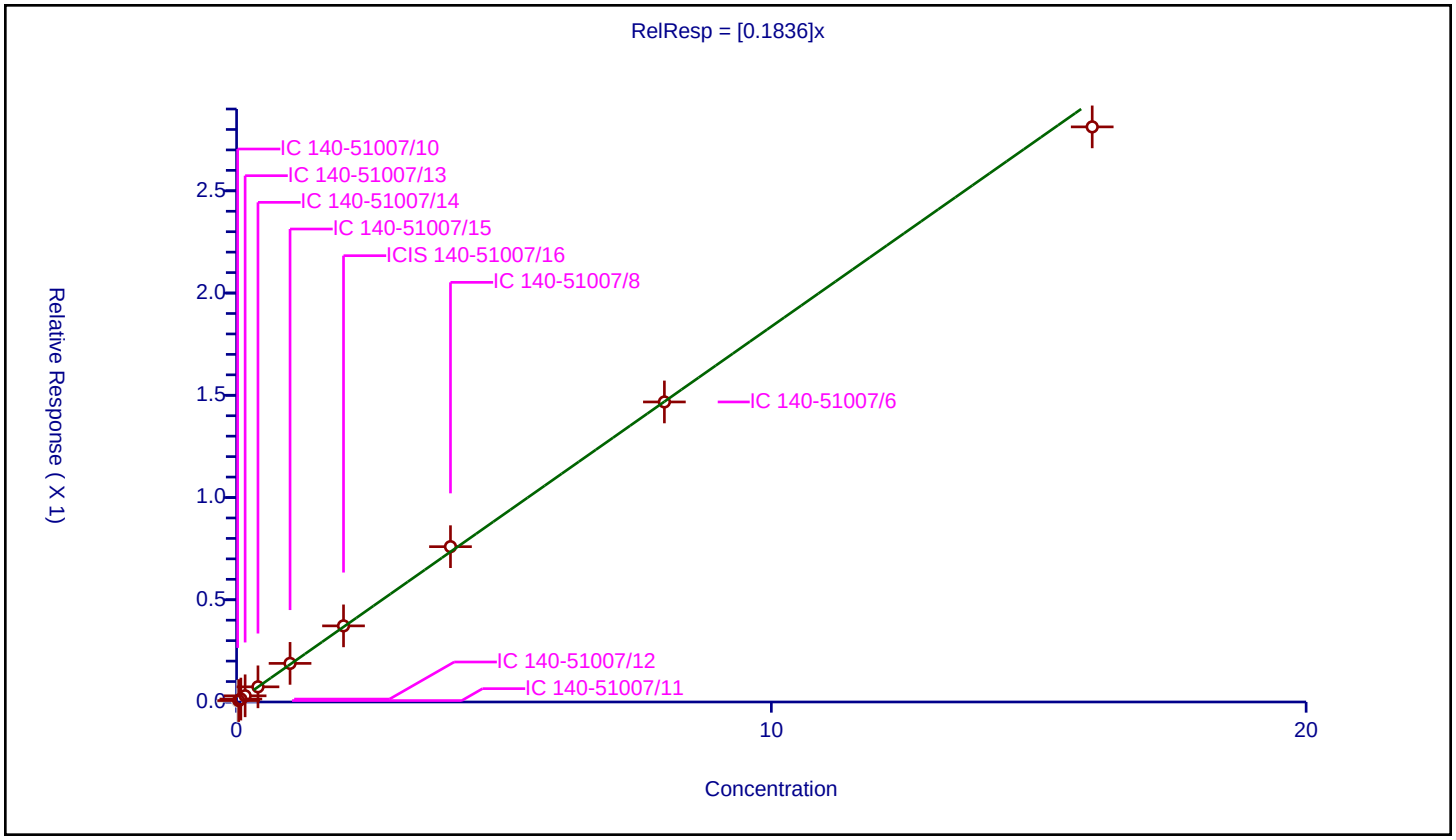
Curve Coefficients

Intercept:	0
Slope:	0.1836

Error Coefficients

Standard Error:	431000
Relative Standard Error:	3.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.003697	4.8	1710051.0	0.184837	N
2	IC 140-51007/11	0.04	0.007017	4.8	1643715.0	0.175432	Y
3	IC 140-51007/12	0.08	0.014295	4.8	1563788.0	0.178682	Y
4	IC 140-51007/13	0.16	0.030256	4.8	1554871.0	0.189103	Y
5	IC 140-51007/14	0.4	0.074131	4.8	1521760.0	0.185328	Y
6	IC 140-51007/15	1.0	0.188757	4.8	1510819.0	0.188757	Y
7	ICIS 140-51007/16	2.0	0.372287	4.8	1539588.0	0.186143	Y
8	IC 140-51007/8	4.0	0.759625	4.8	1780397.0	0.189906	Y
9	IC 140-51007/6	8.0	1.467327	4.8	1816619.0	0.183416	Y
10	IC 140-51007/4	16.0	2.812673	4.8	1775563.0	0.175792	Y



Calibration / Thiophene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

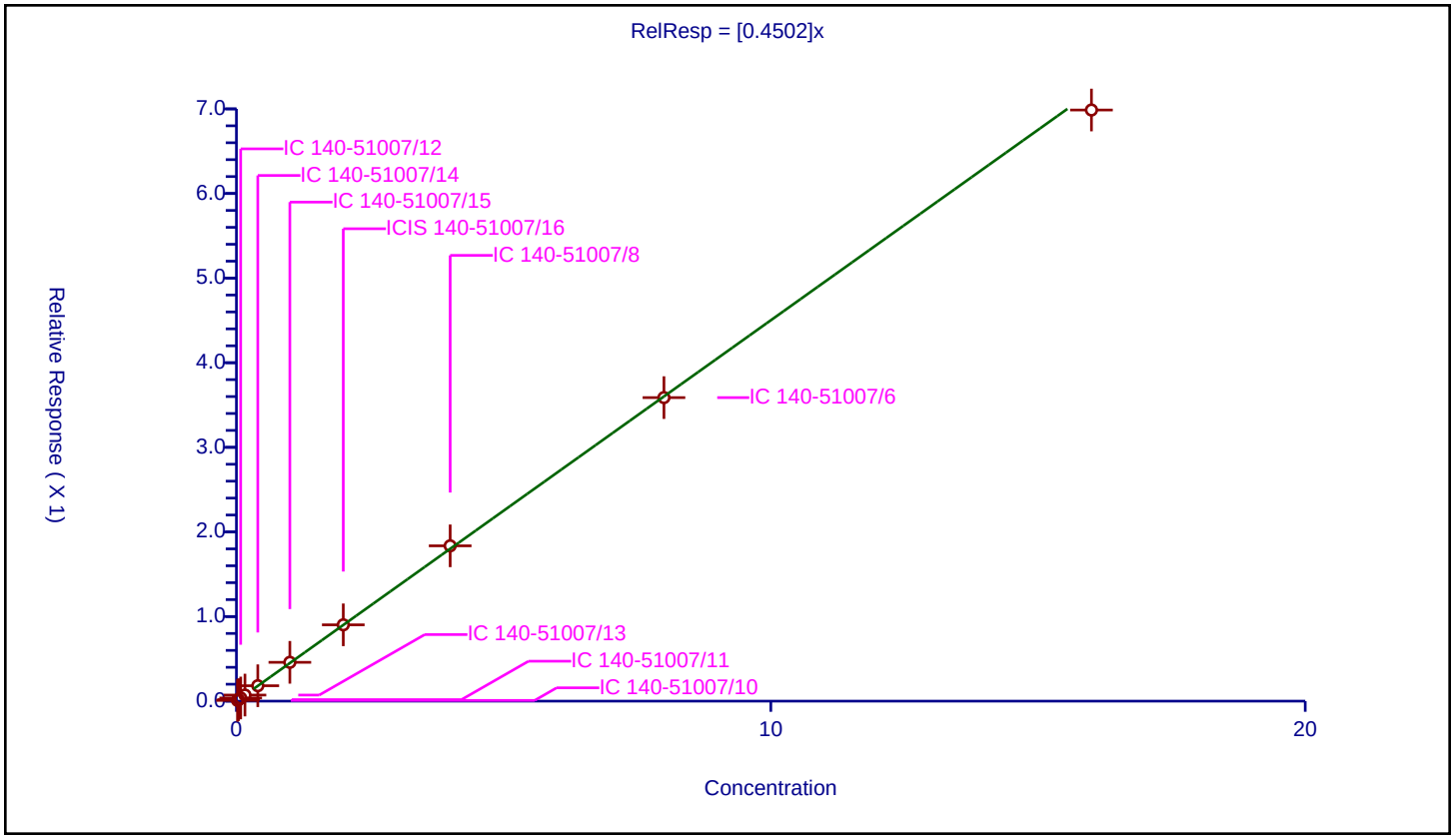
Curve Coefficients

Intercept:	0
Slope:	0.4502

Error Coefficients

Standard Error:	1010000
Relative Standard Error:	2.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.008738	4.8	1710051.0	0.436899	Y
2	IC 140-51007/11	0.04	0.017682	4.8	1643715.0	0.442047	Y
3	IC 140-51007/12	0.08	0.03719	4.8	1563788.0	0.464871	Y
4	IC 140-51007/13	0.16	0.071805	4.8	1554871.0	0.448783	Y
5	IC 140-51007/14	0.4	0.182025	4.8	1521760.0	0.455063	Y
6	IC 140-51007/15	1.0	0.458803	4.8	1510819.0	0.458803	Y
7	ICIS 140-51007/16	2.0	0.901993	4.8	1539588.0	0.450997	Y
8	IC 140-51007/8	4.0	1.835701	4.8	1780397.0	0.458925	Y
9	IC 140-51007/6	8.0	3.587692	4.8	1816619.0	0.448461	Y
10	IC 140-51007/4	16.0	6.986749	4.8	1775563.0	0.436672	Y



Calibration / Isooctane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

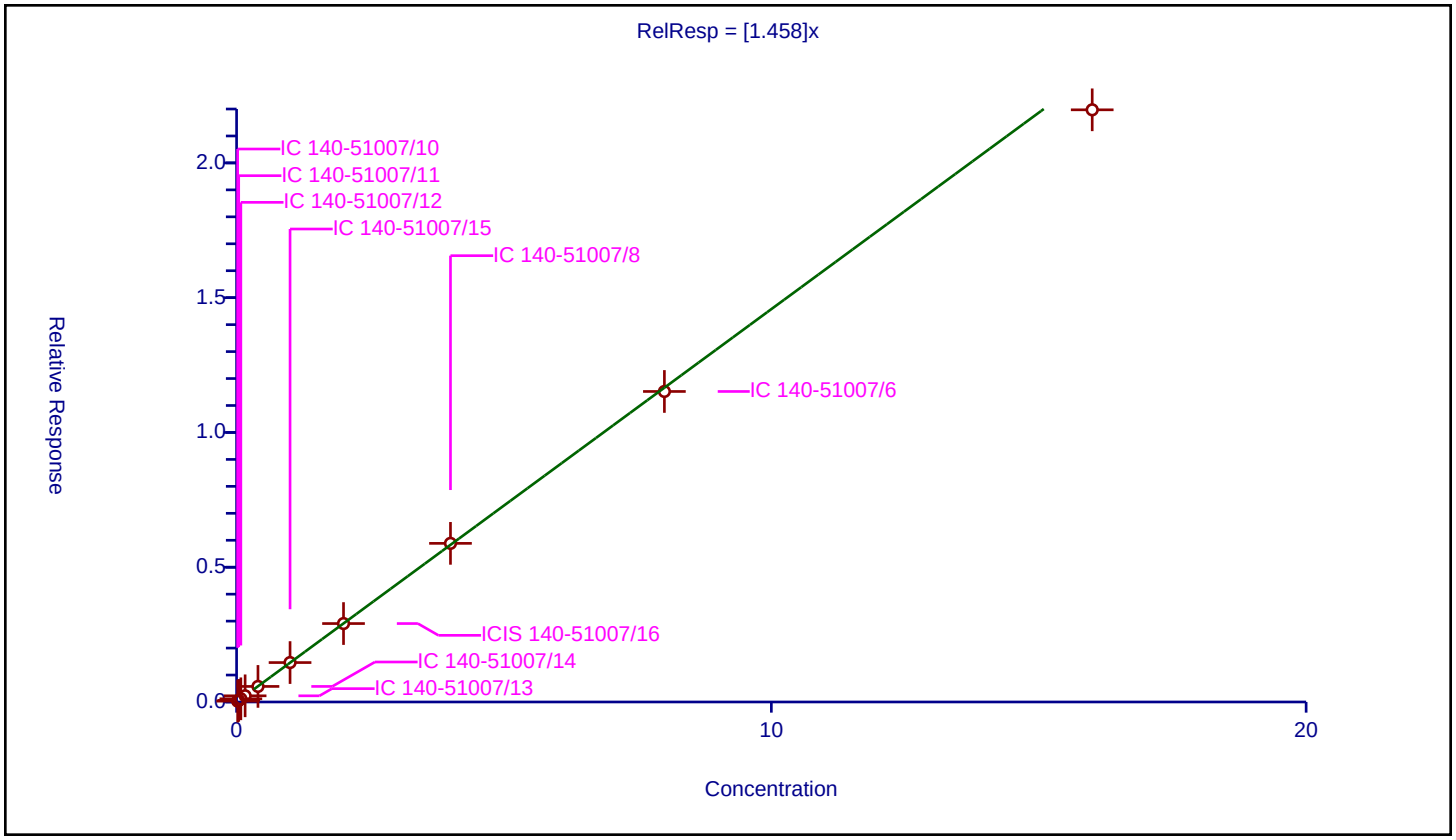
Curve Coefficients

Intercept:	0
Slope:	1.458

Error Coefficients

Standard Error:	3180000
Relative Standard Error:	3.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.030873	4.8	1710051.0	1.543673	Y
2	IC 140-51007/11	0.04	0.059134	4.8	1643715.0	1.478358	Y
3	IC 140-51007/12	0.08	0.118055	4.8	1563788.0	1.475686	Y
4	IC 140-51007/13	0.16	0.229187	4.8	1554871.0	1.432421	Y
5	IC 140-51007/14	0.4	0.576996	4.8	1521760.0	1.44249	Y
6	IC 140-51007/15	1.0	1.463092	4.8	1510819.0	1.463092	Y
7	ICIS 140-51007/16	2.0	2.910043	4.8	1539588.0	1.455021	Y
8	IC 140-51007/8	4.0	5.885014	4.8	1780397.0	1.471253	Y
9	IC 140-51007/6	8.0	11.520339	4.8	1816619.0	1.440042	Y
10	IC 140-51007/4	16.0	21.970052	4.8	1775563.0	1.373128	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

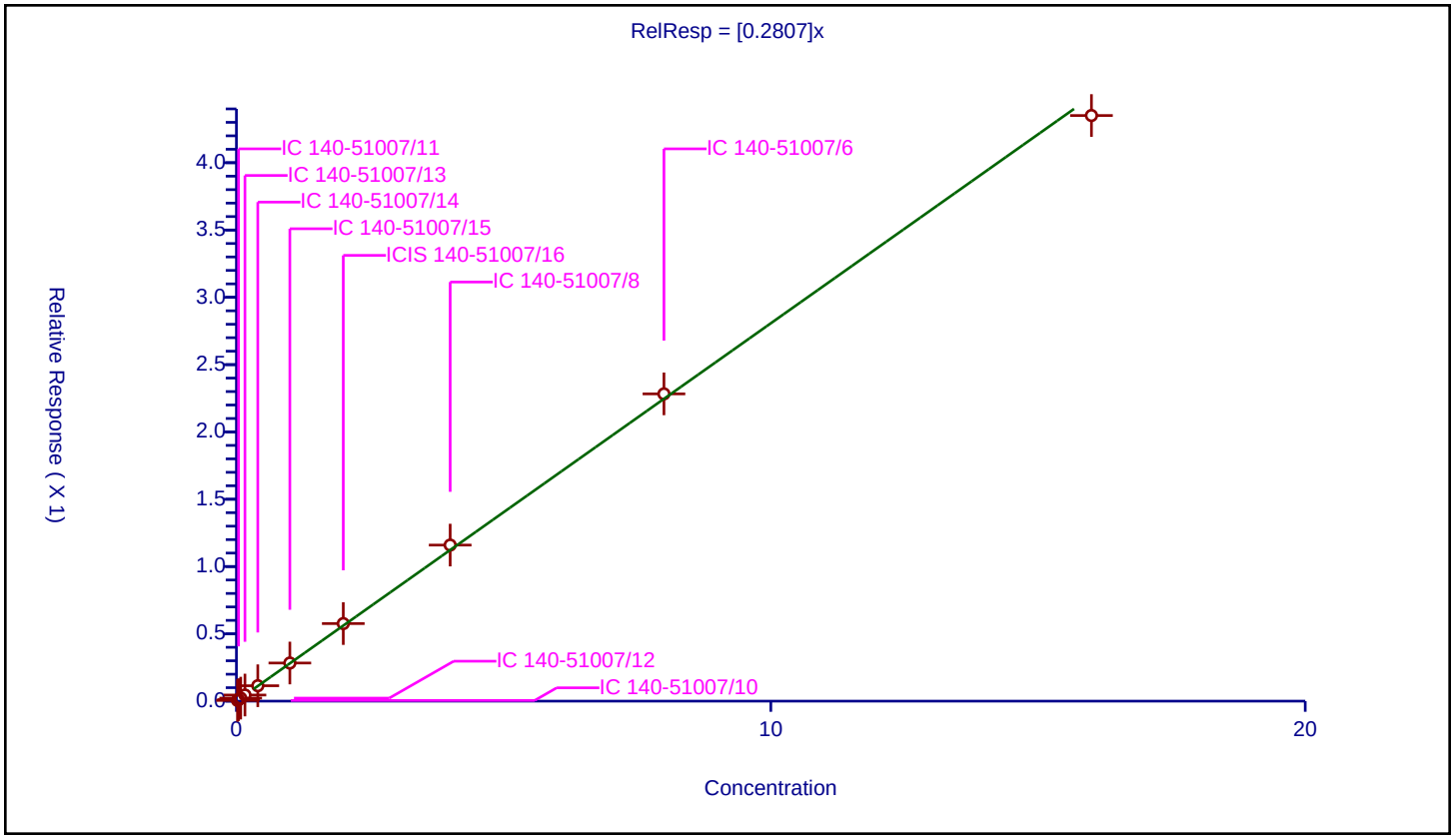
Curve Coefficients

Intercept:	0
Slope:	0.2807

Error Coefficients

Standard Error:	629000
Relative Standard Error:	3.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.005151	4.8	1710051.0	0.257536	Y
2	IC 140-51007/11	0.04	0.011255	4.8	1643715.0	0.281363	Y
3	IC 140-51007/12	0.08	0.022401	4.8	1563788.0	0.280012	Y
4	IC 140-51007/13	0.16	0.045389	4.8	1554871.0	0.283683	Y
5	IC 140-51007/14	0.4	0.114439	4.8	1521760.0	0.286098	Y
6	IC 140-51007/15	1.0	0.283221	4.8	1510819.0	0.283221	Y
7	ICIS 140-51007/16	2.0	0.576223	4.8	1539588.0	0.288111	Y
8	IC 140-51007/8	4.0	1.159413	4.8	1780397.0	0.289853	Y
9	IC 140-51007/6	8.0	2.282669	4.8	1816619.0	0.285334	Y
10	IC 140-51007/4	16.0	4.350762	4.8	1775563.0	0.271923	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

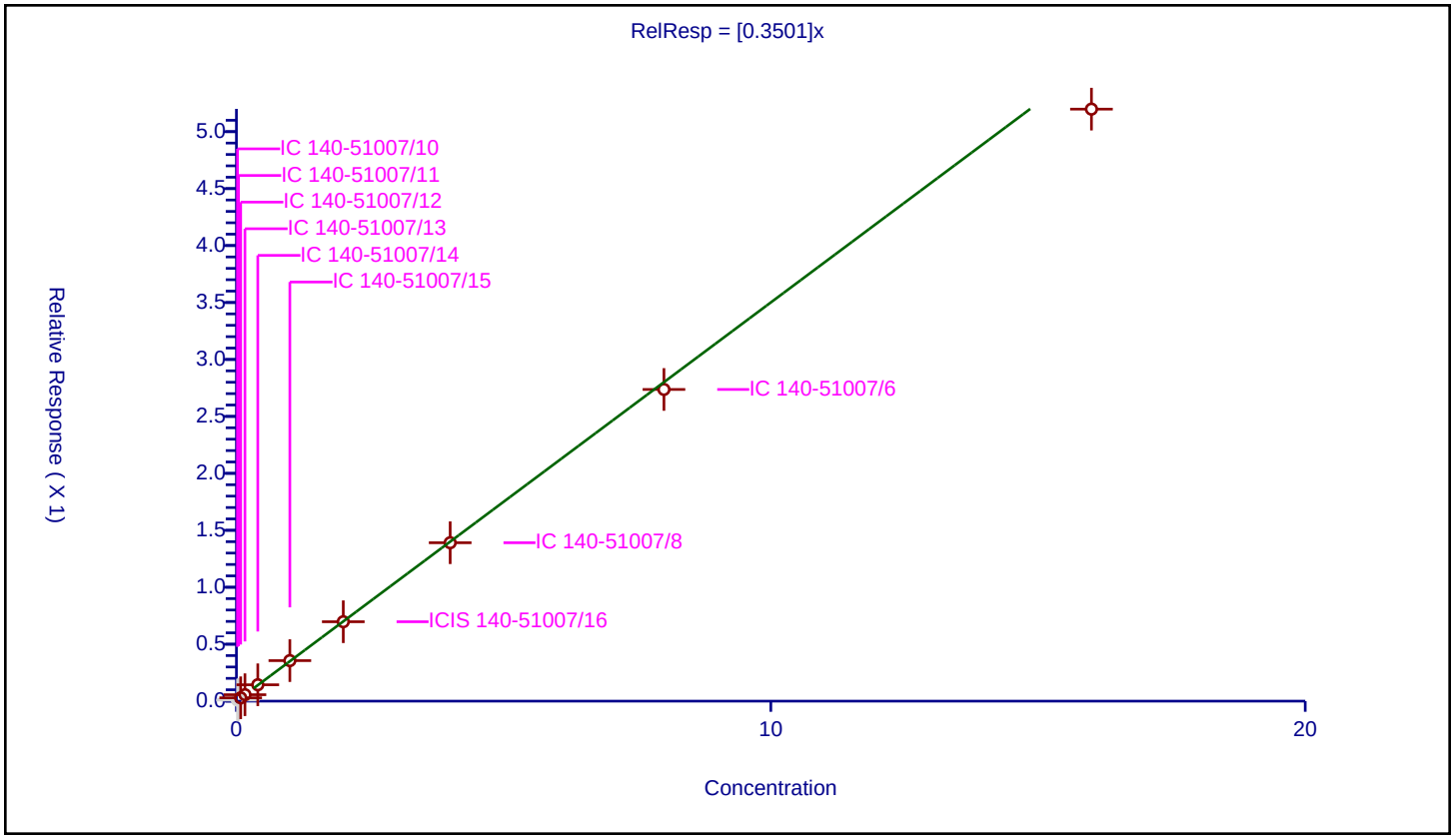
Curve Coefficients

Intercept:	0
Slope:	0.3501

Error Coefficients

Standard Error:	854000
Relative Standard Error:	3.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.009159	4.8	1710051.0	0.457951	N
2	IC 140-51007/11	0.04	0.015328	4.8	1643715.0	0.383205	N
3	IC 140-51007/12	0.08	0.029464	4.8	1563788.0	0.368298	Y
4	IC 140-51007/13	0.16	0.056574	4.8	1554871.0	0.353586	Y
5	IC 140-51007/14	0.4	0.143767	4.8	1521760.0	0.359418	Y
6	IC 140-51007/15	1.0	0.355907	4.8	1510819.0	0.355907	Y
7	ICIS 140-51007/16	2.0	0.697253	4.8	1539588.0	0.348626	Y
8	IC 140-51007/8	4.0	1.390754	4.8	1780397.0	0.347689	Y
9	IC 140-51007/6	8.0	2.736635	4.8	1816619.0	0.342079	Y
10	IC 140-51007/4	16.0	5.198006	4.8	1775563.0	0.324875	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

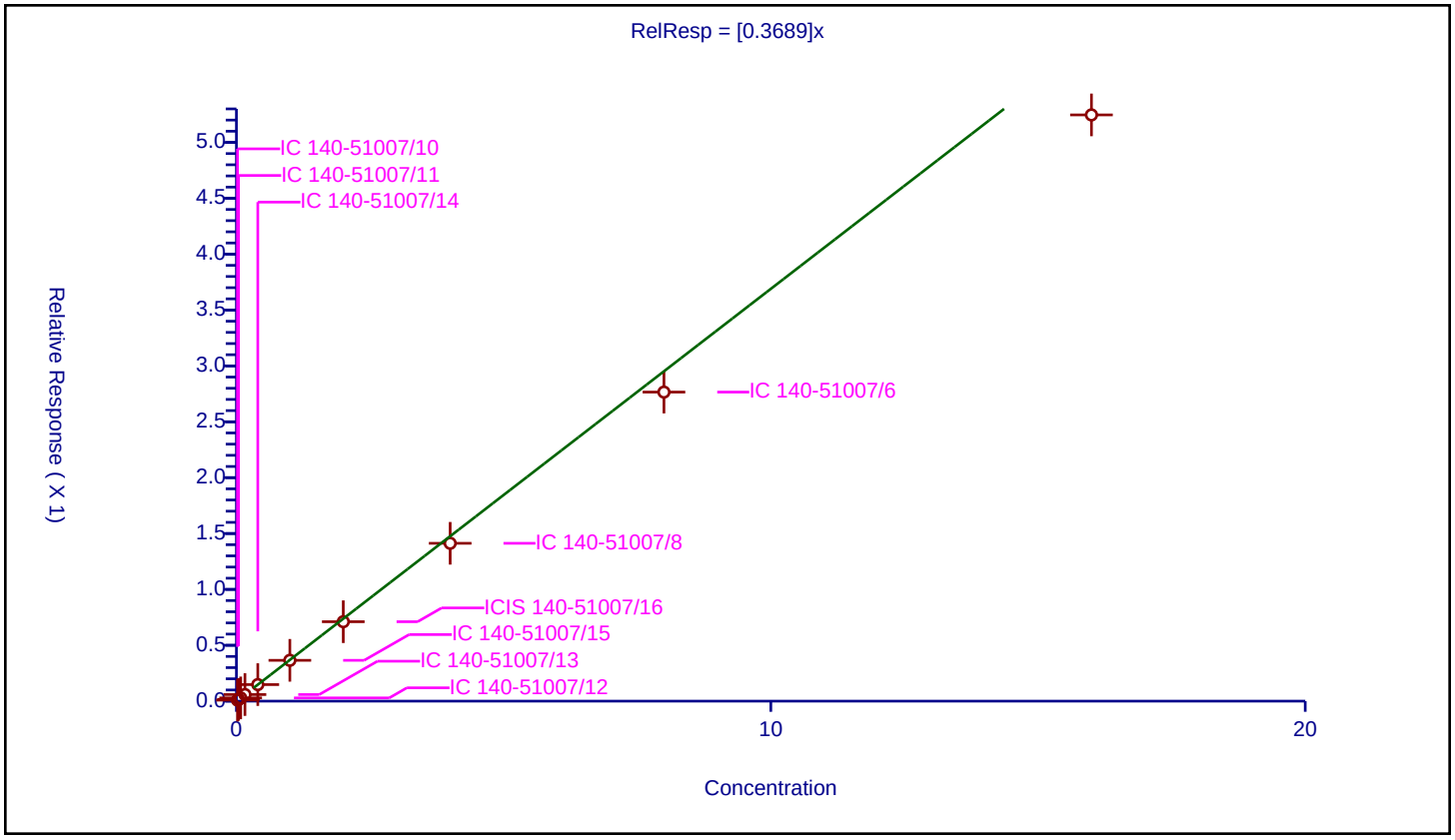
Curve Coefficients

Intercept:	0
Slope:	0.3689

Error Coefficients

Standard Error:	760000
Relative Standard Error:	8.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.008965	4.8	1710051.0	0.448267	Y
2	IC 140-51007/11	0.04	0.015708	4.8	1643715.0	0.392696	Y
3	IC 140-51007/12	0.08	0.029003	4.8	1563788.0	0.362543	Y
4	IC 140-51007/13	0.16	0.058954	4.8	1554871.0	0.368461	Y
5	IC 140-51007/14	0.4	0.148032	4.8	1521760.0	0.370079	Y
6	IC 140-51007/15	1.0	0.365219	4.8	1510819.0	0.365219	Y
7	ICIS 140-51007/16	2.0	0.710936	4.8	1539588.0	0.355468	Y
8	IC 140-51007/8	4.0	1.412635	4.8	1780397.0	0.353159	Y
9	IC 140-51007/6	8.0	2.765541	4.8	1816619.0	0.345693	Y
10	IC 140-51007/4	16.0	5.246183	4.8	1775563.0	0.327886	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

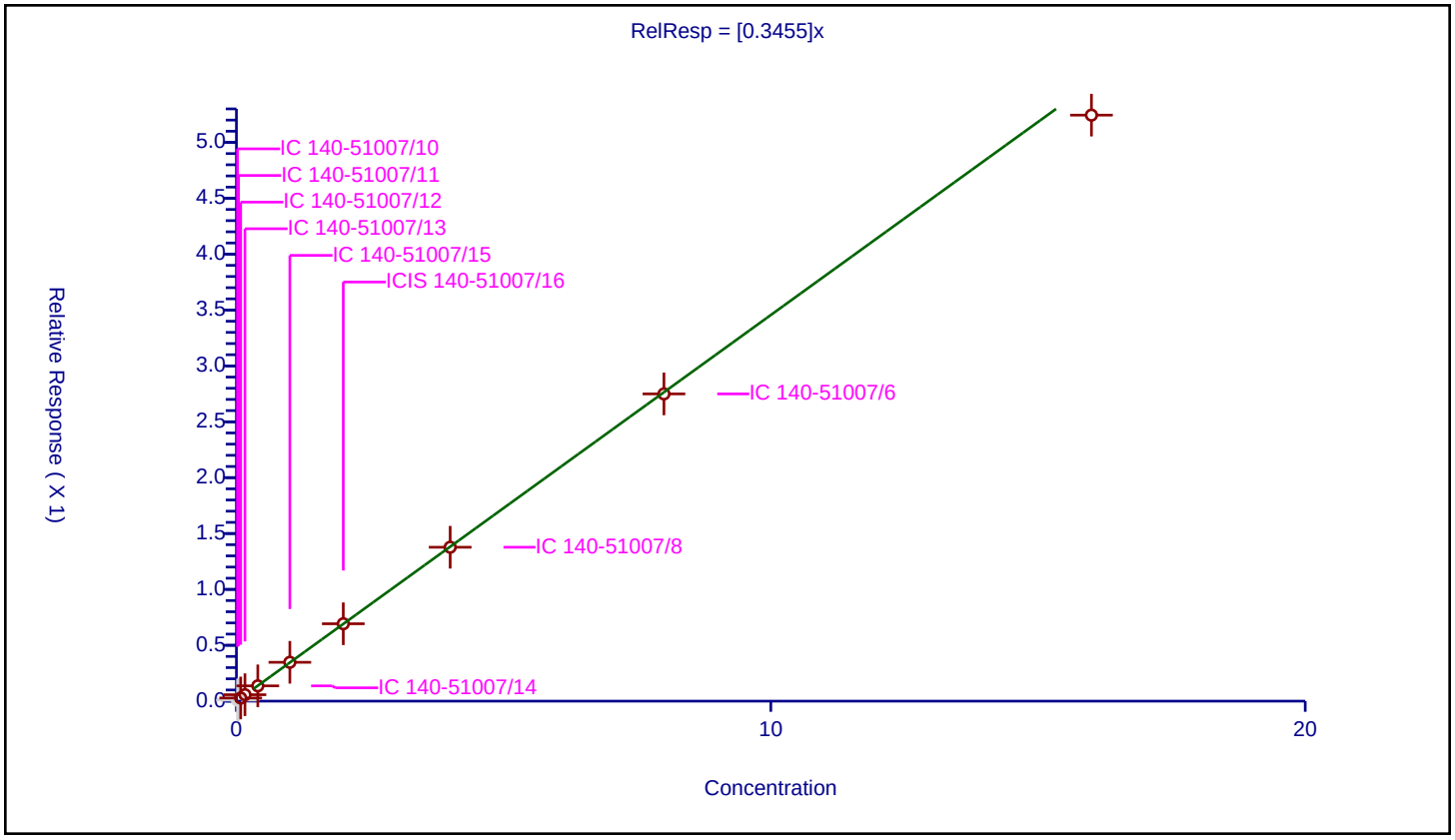
Curve Coefficients

Intercept:	0
Slope:	0.3455

Error Coefficients

Standard Error:	859000
Relative Standard Error:	2.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.009266	4.8	1710051.0	0.463284	N
2	IC 140-51007/11	0.04	0.016727	4.8	1643715.0	0.418175	N
3	IC 140-51007/12	0.08	0.028227	4.8	1563788.0	0.352836	Y
4	IC 140-51007/13	0.16	0.057611	4.8	1554871.0	0.360068	Y
5	IC 140-51007/14	0.4	0.136749	4.8	1521760.0	0.341873	Y
6	IC 140-51007/15	1.0	0.347535	4.8	1510819.0	0.347535	Y
7	ICIS 140-51007/16	2.0	0.692526	4.8	1539588.0	0.346263	Y
8	IC 140-51007/8	4.0	1.377212	4.8	1780397.0	0.344303	Y
9	IC 140-51007/6	8.0	2.749381	4.8	1816619.0	0.343673	Y
10	IC 140-51007/4	16.0	5.244144	4.8	1775563.0	0.327759	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

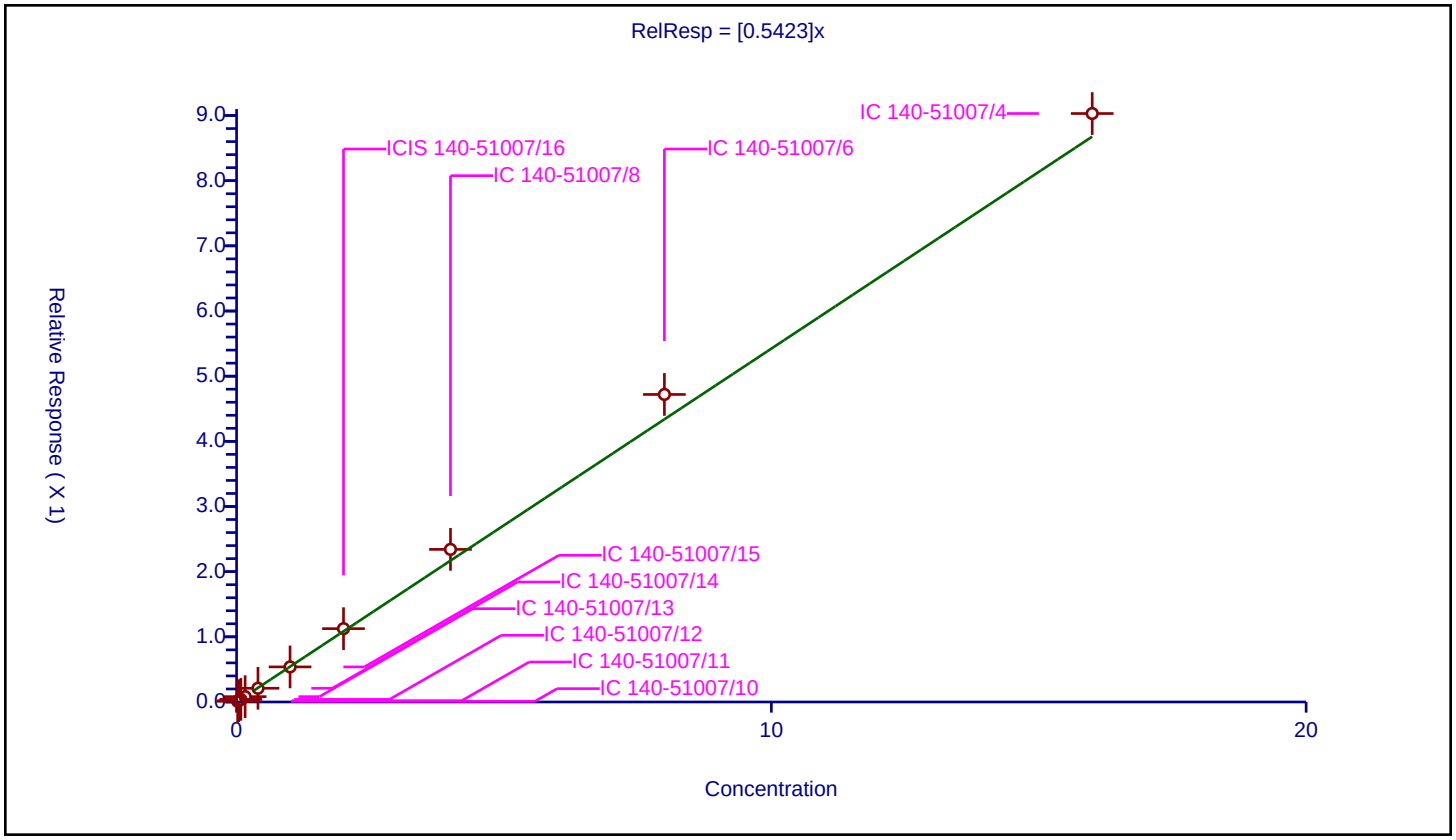
Curve Coefficients

Intercept:	0
Slope:	0.5423

Error Coefficients

Standard Error:	1300000
Relative Standard Error:	6.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.010734	4.8	1710051.0	0.536686	Y
2	IC 140-51007/11	0.04	0.020295	4.8	1643715.0	0.507387	Y
3	IC 140-51007/12	0.08	0.03978	4.8	1563788.0	0.497254	Y
4	IC 140-51007/13	0.16	0.082246	4.8	1554871.0	0.514036	Y
5	IC 140-51007/14	0.4	0.210505	4.8	1521760.0	0.526262	Y
6	IC 140-51007/15	1.0	0.538471	4.8	1510819.0	0.538471	Y
7	ICIS 140-51007/16	2.0	1.125752	4.8	1539588.0	0.562876	Y
8	IC 140-51007/8	4.0	2.341732	4.8	1780397.0	0.585433	Y
9	IC 140-51007/6	8.0	4.719633	4.8	1816619.0	0.589954	Y
10	IC 140-51007/4	16.0	9.031025	4.8	1775563.0	0.564439	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

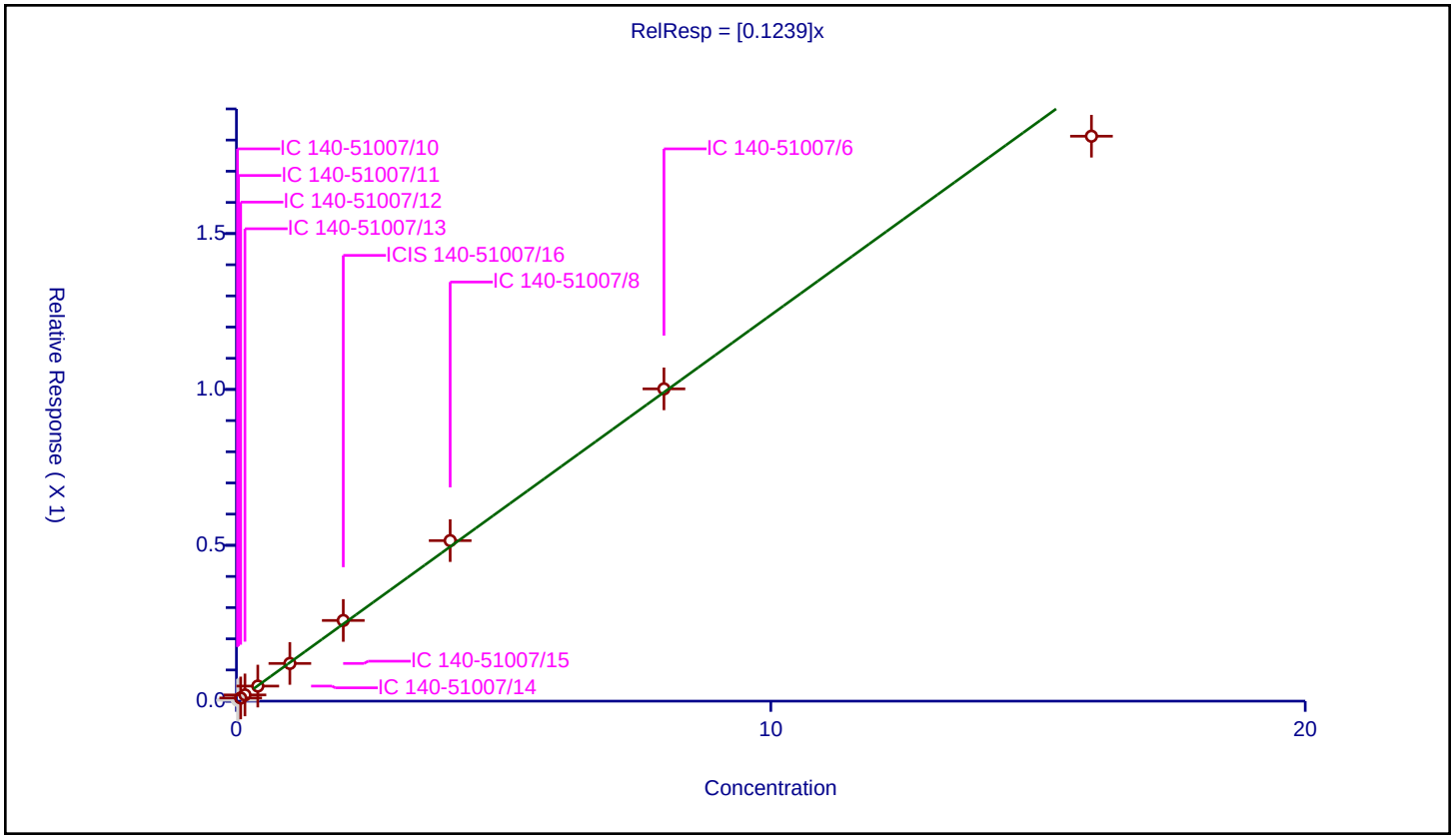
Curve Coefficients

Intercept:	0
Slope:	0.1239

Error Coefficients

Standard Error:	302000
Relative Standard Error:	4.3
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.002857	4.8	1710051.0	0.142873	N
2	IC 140-51007/11	0.04	0.005765	4.8	1643715.0	0.144113	N
3	IC 140-51007/12	0.08	0.010203	4.8	1563788.0	0.127536	Y
4	IC 140-51007/13	0.16	0.01998	4.8	1554871.0	0.124872	Y
5	IC 140-51007/14	0.4	0.048351	4.8	1521760.0	0.120878	Y
6	IC 140-51007/15	1.0	0.120917	4.8	1510819.0	0.120917	Y
7	ICIS 140-51007/16	2.0	0.258864	4.8	1539588.0	0.129432	Y
8	IC 140-51007/8	4.0	0.515049	4.8	1780397.0	0.128762	Y
9	IC 140-51007/6	8.0	1.001825	4.8	1816619.0	0.125228	Y
10	IC 140-51007/4	16.0	1.812397	4.8	1775563.0	0.113275	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

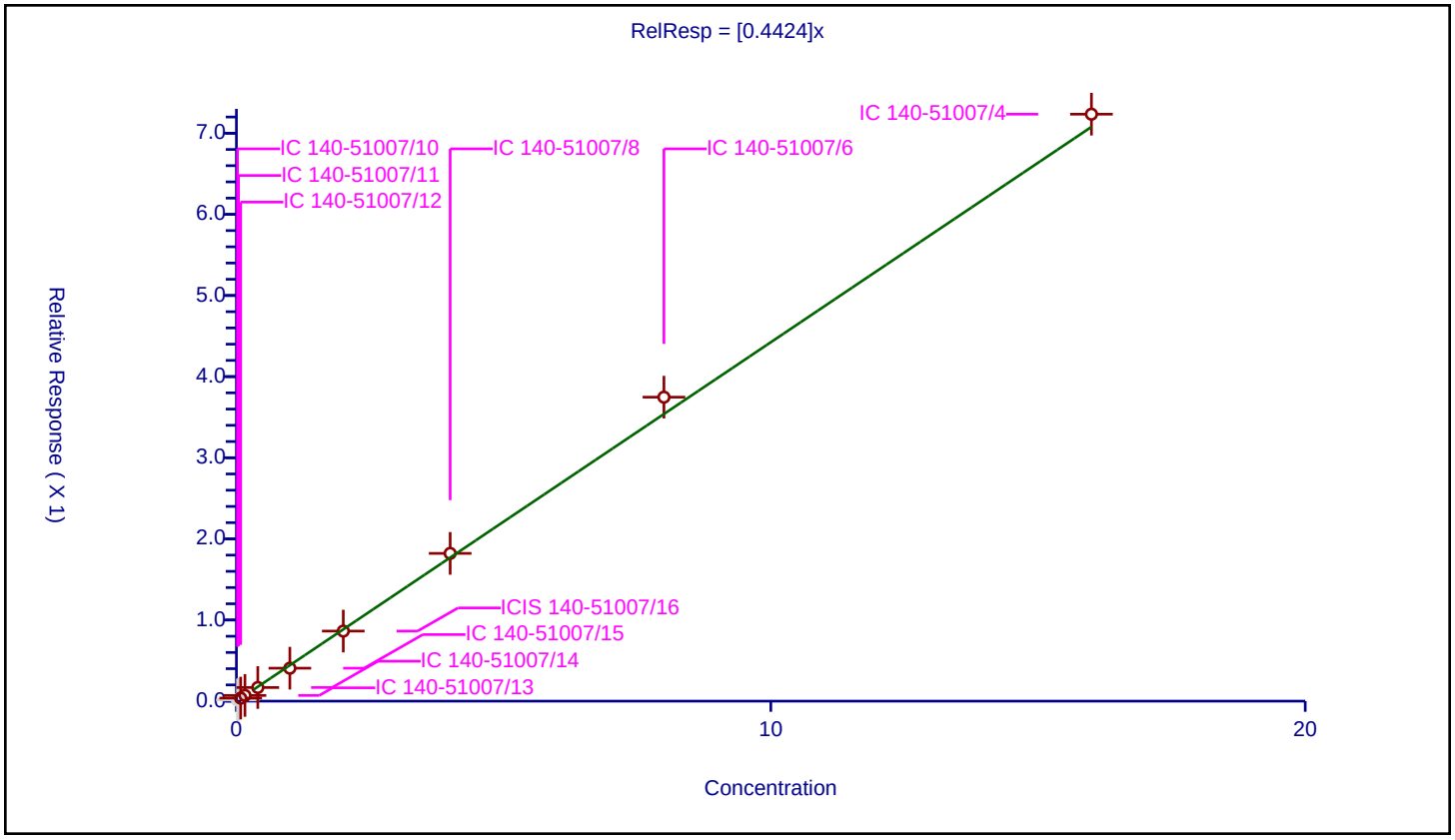
Curve Coefficients

Intercept:	0
Slope:	0.4424

Error Coefficients

Standard Error:	1180000
Relative Standard Error:	5.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.014492	4.8	1710051.0	0.72461	N
2	IC 140-51007/11	0.04	0.022089	4.8	1643715.0	0.552213	N
3	IC 140-51007/12	0.08	0.037478	4.8	1563788.0	0.468478	Y
4	IC 140-51007/13	0.16	0.069959	4.8	1554871.0	0.437245	Y
5	IC 140-51007/14	0.4	0.16779	4.8	1521760.0	0.419475	Y
6	IC 140-51007/15	1.0	0.406244	4.8	1510819.0	0.406244	Y
7	ICIS 140-51007/16	2.0	0.863414	4.8	1539588.0	0.431707	Y
8	IC 140-51007/8	4.0	1.821296	4.8	1780397.0	0.455324	Y
9	IC 140-51007/6	8.0	3.74664	4.8	1816619.0	0.46833	Y
10	IC 140-51007/4	16.0	7.234515	4.8	1775563.0	0.452157	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

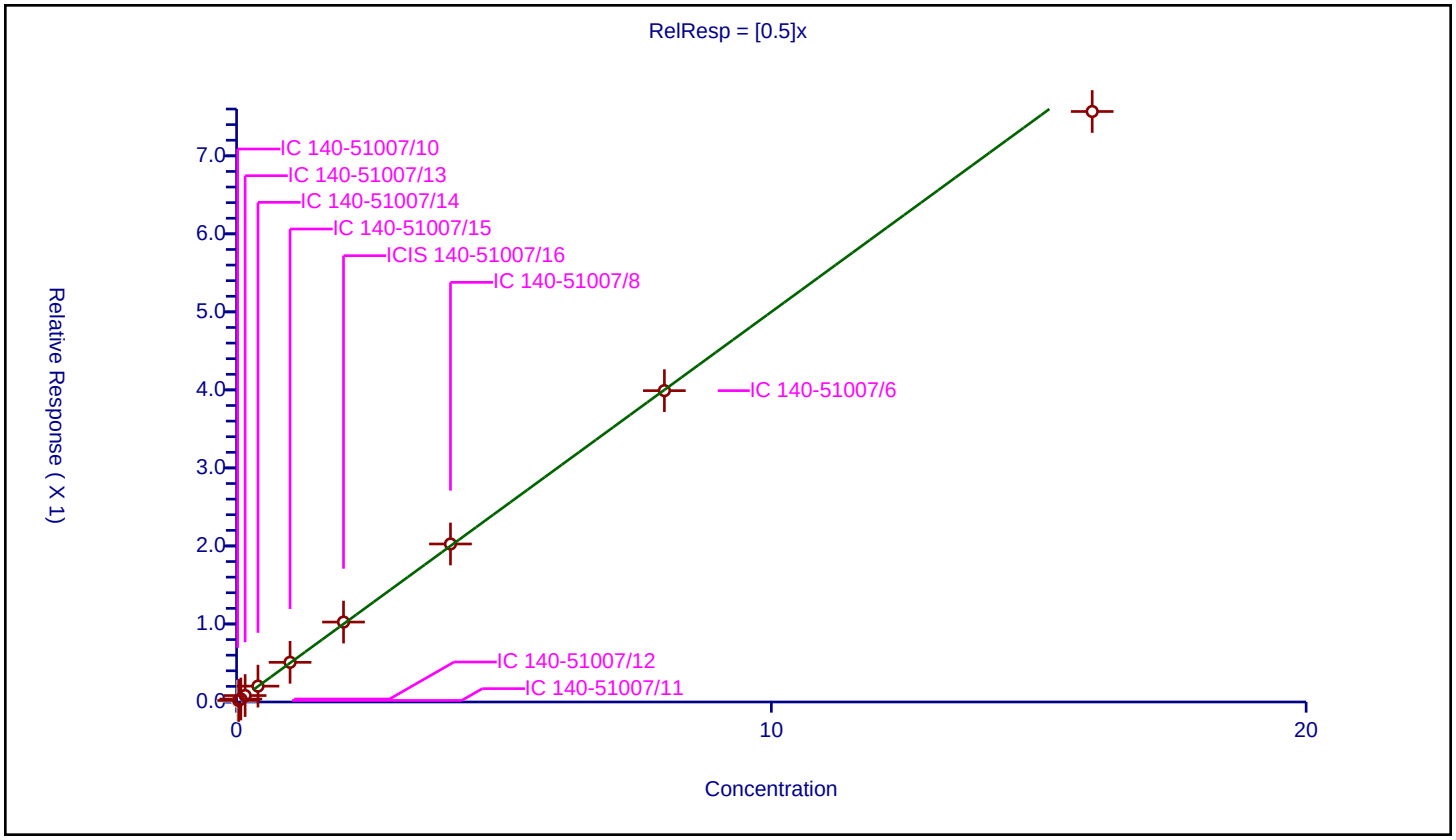
Curve Coefficients

Intercept:	0
Slope:	0.5

Error Coefficients

Standard Error:	1160000
Relative Standard Error:	3.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.010001	4.8	1710051.0	0.500055	N
2	IC 140-51007/11	0.04	0.019939	4.8	1643715.0	0.498481	Y
3	IC 140-51007/12	0.08	0.038273	4.8	1563788.0	0.478415	Y
4	IC 140-51007/13	0.16	0.082582	4.8	1554871.0	0.516139	Y
5	IC 140-51007/14	0.4	0.203225	4.8	1521760.0	0.508062	Y
6	IC 140-51007/15	1.0	0.508477	4.8	1510819.0	0.508477	Y
7	ICIS 140-51007/16	2.0	1.024625	4.8	1539588.0	0.512313	Y
8	IC 140-51007/8	4.0	2.025369	4.8	1780397.0	0.506342	Y
9	IC 140-51007/6	8.0	3.990619	4.8	1816619.0	0.498827	Y
10	IC 140-51007/4	16.0	7.568184	4.8	1775563.0	0.473011	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

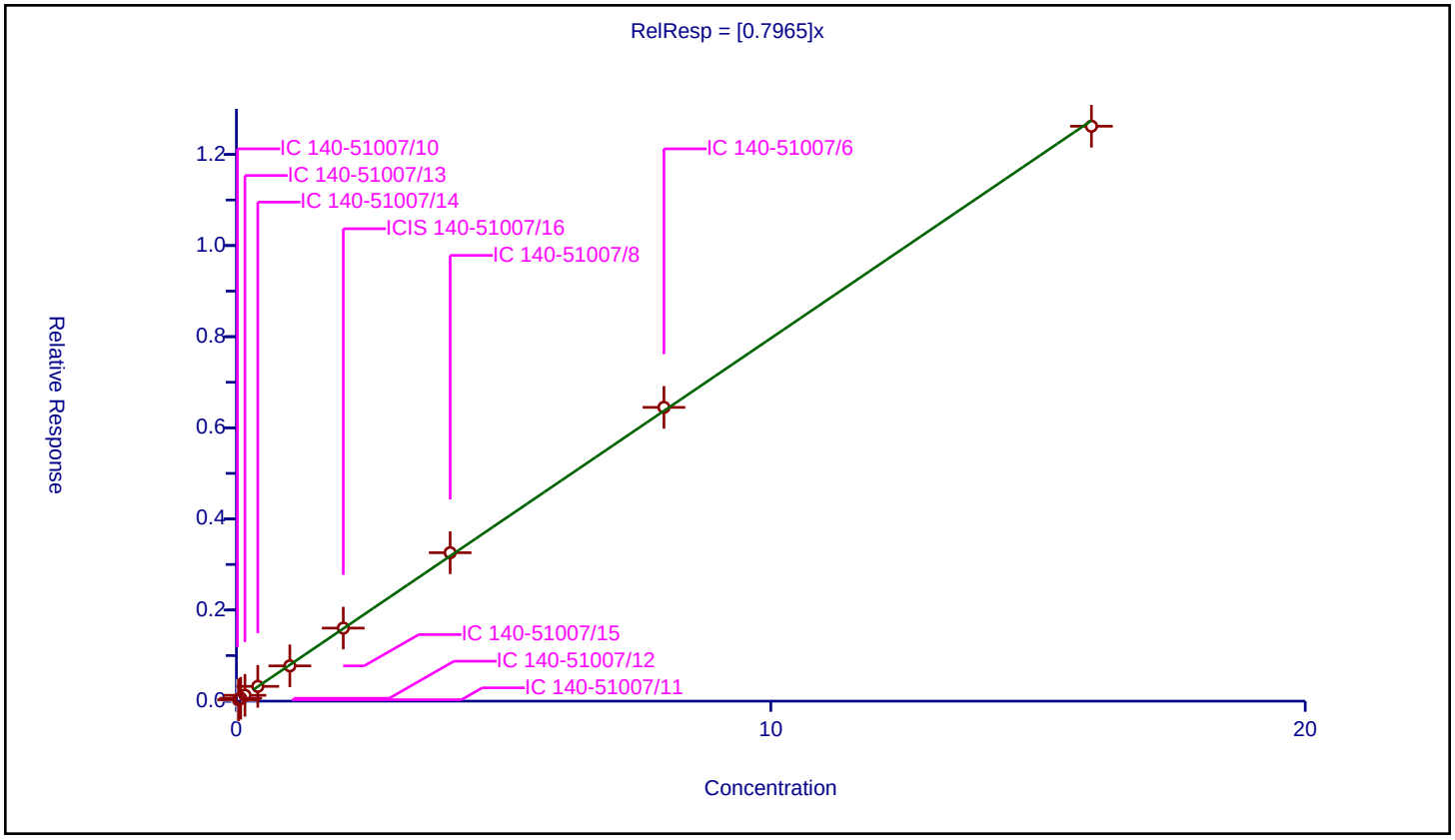
Curve Coefficients

Intercept:	0
Slope:	0.7965

Error Coefficients

Standard Error:	1920000
Relative Standard Error:	1.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.018391	4.8	1710051.0	0.919552	N
2	IC 140-51007/11	0.04	0.031054	4.8	1643715.0	0.776339	Y
3	IC 140-51007/12	0.08	0.063486	4.8	1563788.0	0.793573	Y
4	IC 140-51007/13	0.16	0.12837	4.8	1554871.0	0.802311	Y
5	IC 140-51007/14	0.4	0.324395	4.8	1521760.0	0.810987	Y
6	IC 140-51007/15	1.0	0.774109	4.8	1510819.0	0.774109	Y
7	ICIS 140-51007/16	2.0	1.603055	4.8	1539588.0	0.801528	Y
8	IC 140-51007/8	4.0	3.258554	4.8	1780397.0	0.814639	Y
9	IC 140-51007/6	8.0	6.448722	4.8	1816619.0	0.80609	Y
10	IC 140-51007/4	16.0	12.619673	4.8	1775563.0	0.78873	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

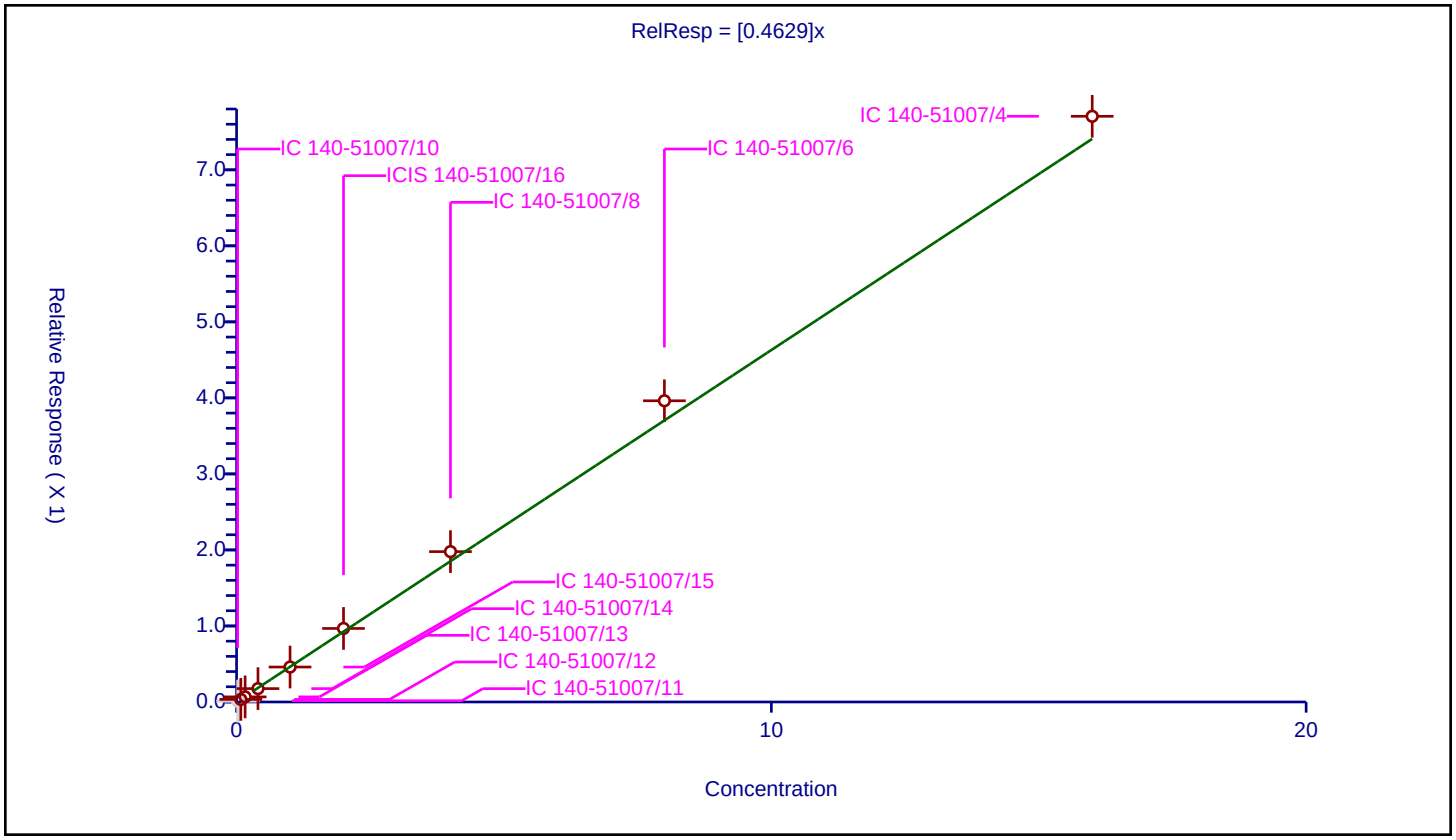
Curve Coefficients

Intercept:	0
Slope:	0.4629

Error Coefficients

Standard Error:	1260000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.009723	4.8	1710051.0	0.486161	N
2	IC 140-51007/11	0.04	0.01633	4.8	1643715.0	0.408246	N
3	IC 140-51007/12	0.08	0.034347	4.8	1563788.0	0.429342	Y
4	IC 140-51007/13	0.16	0.067175	4.8	1554871.0	0.419842	Y
5	IC 140-51007/14	0.4	0.175852	4.8	1521760.0	0.43963	Y
6	IC 140-51007/15	1.0	0.459765	4.8	1510819.0	0.459765	Y
7	ICIS 140-51007/16	2.0	0.967315	4.8	1539588.0	0.483658	Y
8	IC 140-51007/8	4.0	1.977992	4.8	1780397.0	0.494498	Y
9	IC 140-51007/6	8.0	3.962049	4.8	1816619.0	0.495256	Y
10	IC 140-51007/4	16.0	7.704236	4.8	1775563.0	0.481515	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

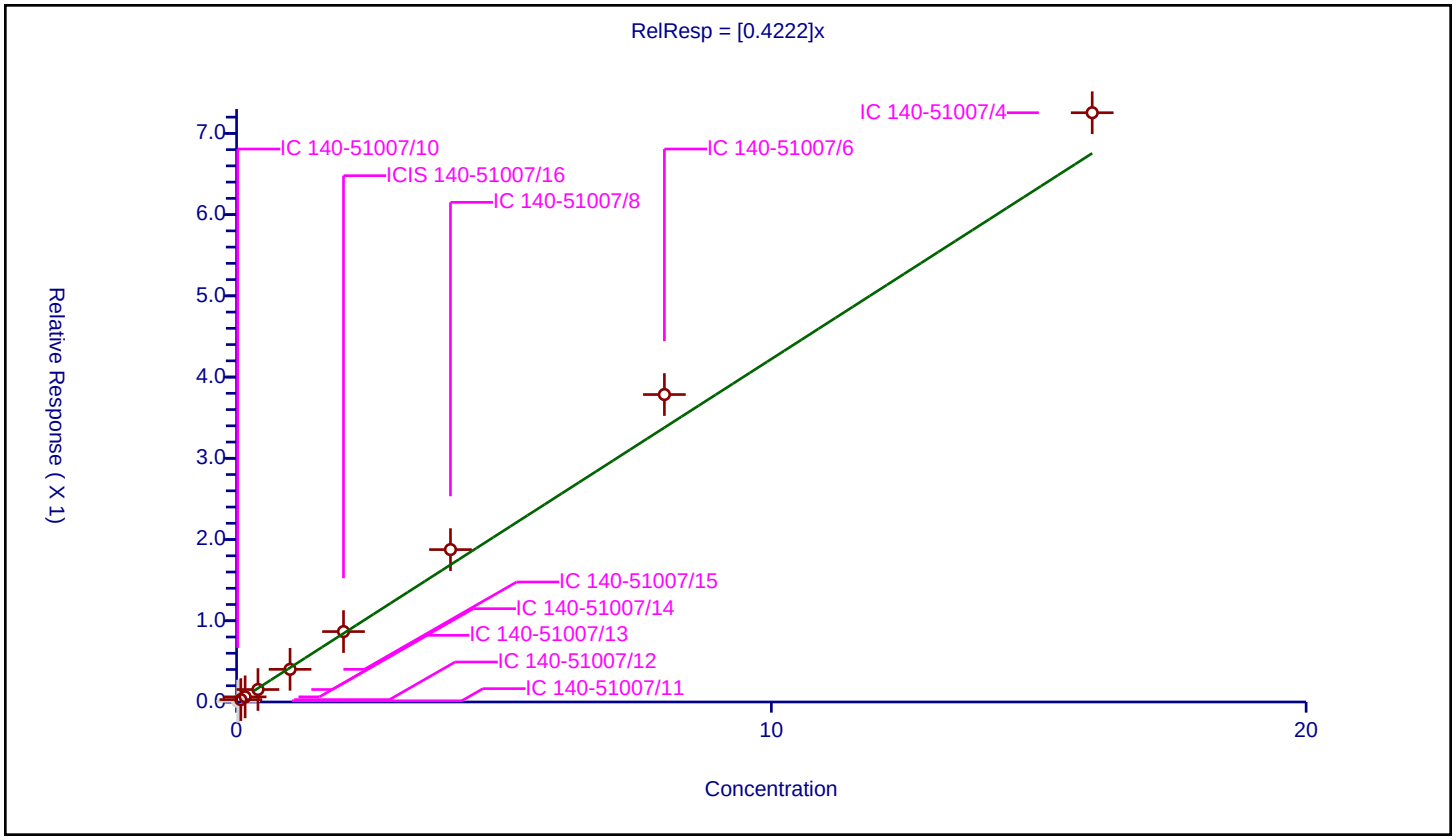
Curve Coefficients

Intercept:	0
Slope:	0.4222

Error Coefficients

Standard Error:	1160000
Relative Standard Error:	9.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.008821	4.8	1590004.0	0.441055	N
2	IC 140-51007/11	0.04	0.014497	4.8	1526419.0	0.362417	N
3	IC 140-51007/12	0.08	0.029386	4.8	1474349.0	0.367321	Y
4	IC 140-51007/13	0.16	0.063351	4.8	1449526.0	0.395943	Y
5	IC 140-51007/14	0.4	0.153328	4.8	1427682.0	0.383321	Y
6	IC 140-51007/15	1.0	0.402048	4.8	1438027.0	0.402048	Y
7	ICIS 140-51007/16	2.0	0.866961	4.8	1474901.0	0.43348	Y
8	IC 140-51007/8	4.0	1.876105	4.8	1696122.0	0.469026	Y
9	IC 140-51007/6	8.0	3.784846	4.8	1754996.0	0.473106	Y
10	IC 140-51007/4	16.0	7.254359	4.8	1741193.0	0.453397	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

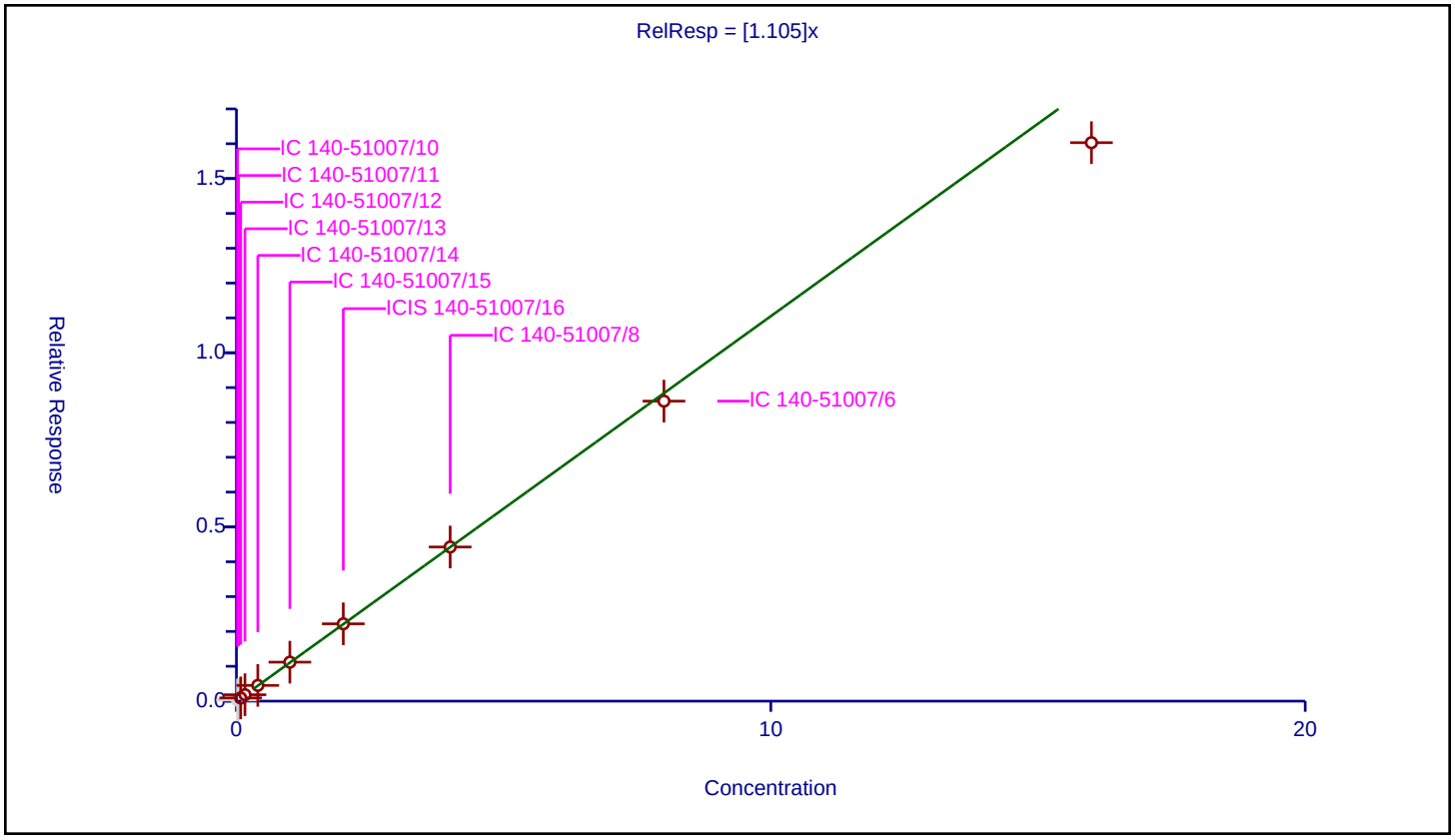
Curve Coefficients

Intercept:	0
Slope:	1.105

Error Coefficients

Standard Error:	2580000
Relative Standard Error:	4.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.031843	4.8	1590004.0	1.592147	N
2	IC 140-51007/11	0.04	0.051254	4.8	1526419.0	1.281352	N
3	IC 140-51007/12	0.08	0.091895	4.8	1474349.0	1.148683	Y
4	IC 140-51007/13	0.16	0.18387	4.8	1449526.0	1.149189	Y
5	IC 140-51007/14	0.4	0.451452	4.8	1427682.0	1.128629	Y
6	IC 140-51007/15	1.0	1.119097	4.8	1438027.0	1.119097	Y
7	ICIS 140-51007/16	2.0	2.219575	4.8	1474901.0	1.109787	Y
8	IC 140-51007/8	4.0	4.424591	4.8	1696122.0	1.106148	Y
9	IC 140-51007/6	8.0	8.611824	4.8	1754996.0	1.076478	Y
10	IC 140-51007/4	16.0	16.030369	4.8	1741193.0	1.001898	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

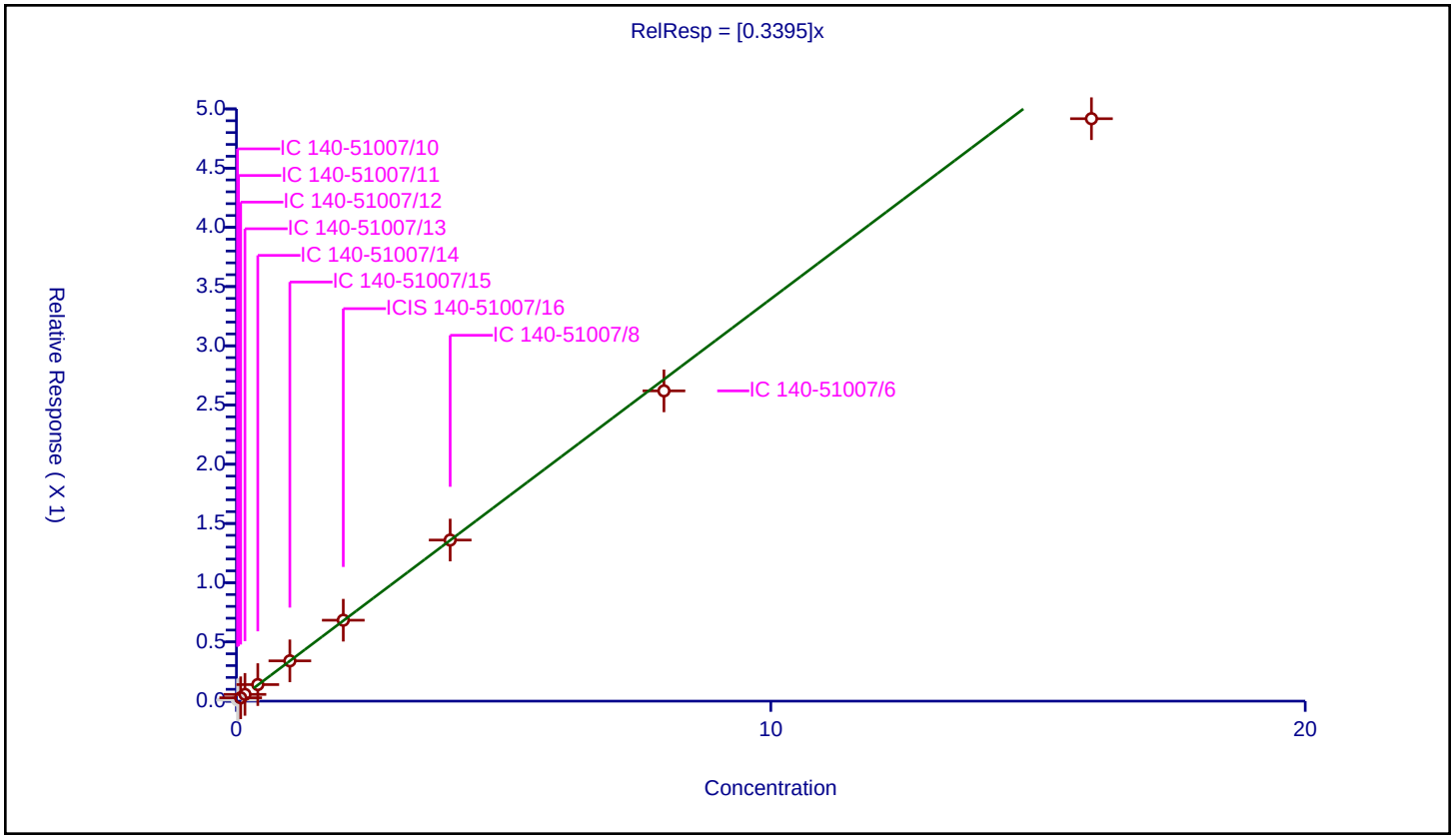
Curve Coefficients

Intercept:	0
Slope:	0.3395

Error Coefficients

Standard Error:	792000
Relative Standard Error:	4.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.009099	4.8	1590004.0	0.454942	N
2	IC 140-51007/11	0.04	0.015034	4.8	1526419.0	0.37586	N
3	IC 140-51007/12	0.08	0.028363	4.8	1474349.0	0.354543	Y
4	IC 140-51007/13	0.16	0.056923	4.8	1449526.0	0.355771	Y
5	IC 140-51007/14	0.4	0.139803	4.8	1427682.0	0.349506	Y
6	IC 140-51007/15	1.0	0.340046	4.8	1438027.0	0.340046	Y
7	ICIS 140-51007/16	2.0	0.683182	4.8	1474901.0	0.341591	Y
8	IC 140-51007/8	4.0	1.359995	4.8	1696122.0	0.339999	Y
9	IC 140-51007/6	8.0	2.619529	4.8	1754996.0	0.327441	Y
10	IC 140-51007/4	16.0	4.917326	4.8	1741193.0	0.307333	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

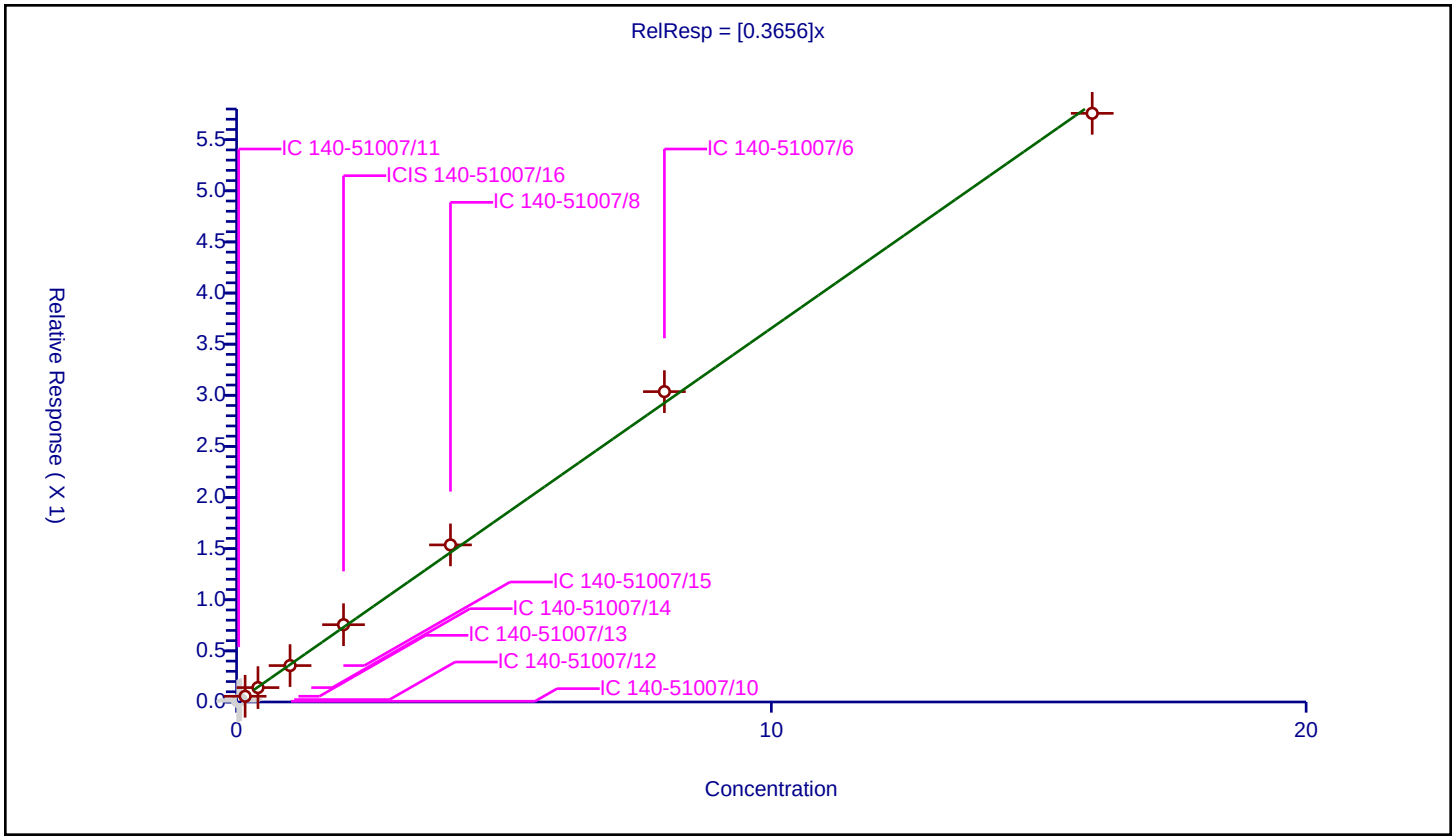
Curve Coefficients

Intercept:	0
Slope:	0.3656

Error Coefficients

Standard Error:	996000
Relative Standard Error:	3.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.007176	4.8	1590004.0	0.358792	N
2	IC 140-51007/11	0.04	0.01478	4.8	1526419.0	0.369492	N
3	IC 140-51007/12	0.08	0.023649	4.8	1474349.0	0.295615	N
4	IC 140-51007/13	0.16	0.055993	4.8	1449526.0	0.349956	Y
5	IC 140-51007/14	0.4	0.140643	4.8	1427682.0	0.351608	Y
6	IC 140-51007/15	1.0	0.356238	4.8	1438027.0	0.356238	Y
7	ICIS 140-51007/16	2.0	0.755899	4.8	1474901.0	0.37795	Y
8	IC 140-51007/8	4.0	1.536376	4.8	1696122.0	0.384094	Y
9	IC 140-51007/6	8.0	3.035784	4.8	1754996.0	0.379473	Y
10	IC 140-51007/4	16.0	5.757845	4.8	1741193.0	0.359865	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

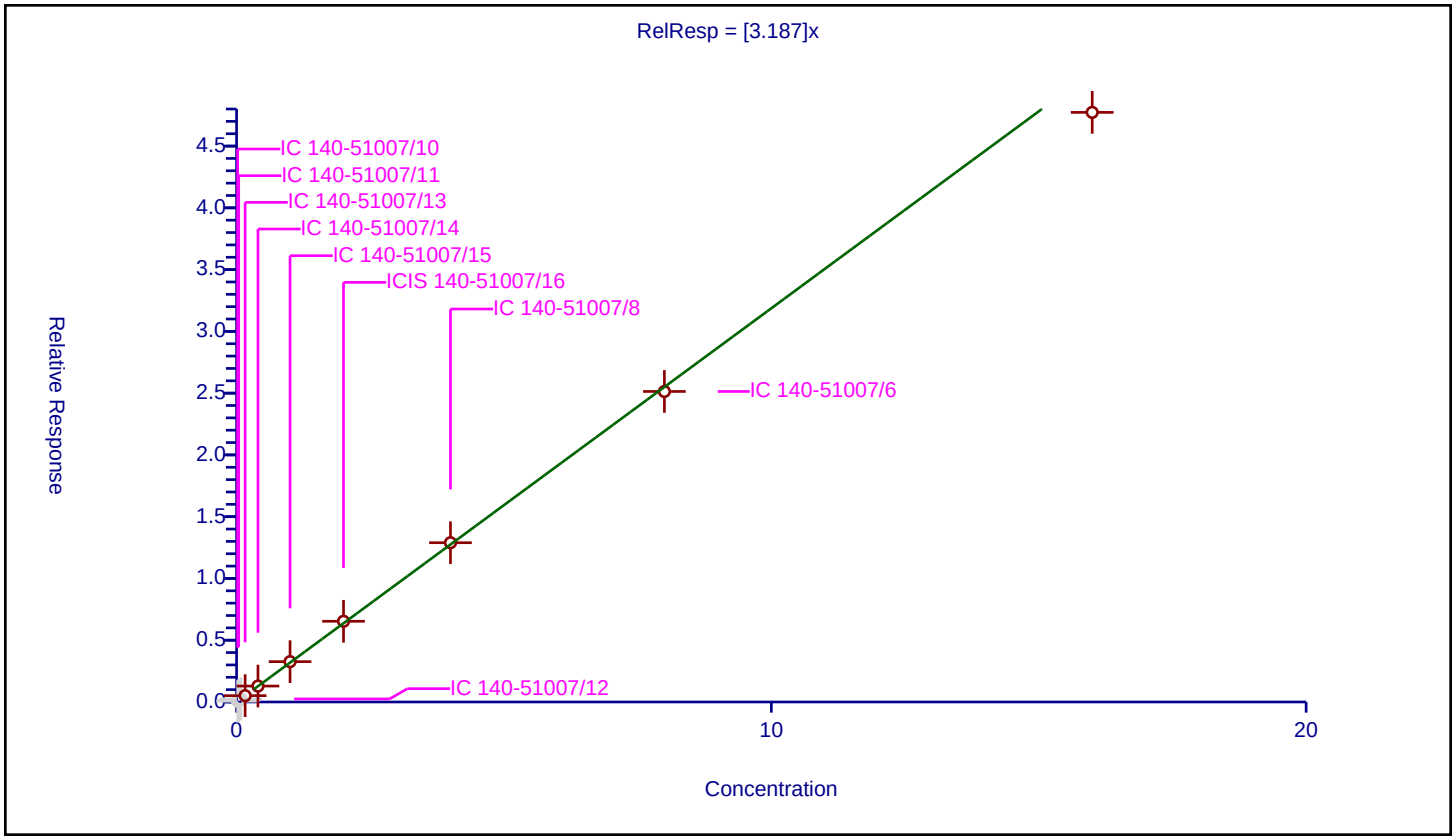
Curve Coefficients

Intercept:	0
Slope:	3.187

Error Coefficients

Standard Error:	8470000
Relative Standard Error:	3.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.066404	4.8	1710051.0	3.320182	N
2	IC 140-51007/11	0.04	0.128387	4.8	1643715.0	3.209681	N
3	IC 140-51007/12	0.08	0.247286	4.8	1563788.0	3.091071	N
4	IC 140-51007/13	0.16	0.512494	4.8	1554871.0	3.203089	Y
5	IC 140-51007/14	0.4	1.290751	4.8	1521760.0	3.226877	Y
6	IC 140-51007/15	1.0	3.265452	4.8	1510819.0	3.265452	Y
7	ICIS 140-51007/16	2.0	6.533127	4.8	1539588.0	3.266563	Y
8	IC 140-51007/8	4.0	12.891243	4.8	1780397.0	3.222811	Y
9	IC 140-51007/6	8.0	25.134961	4.8	1816619.0	3.14187	Y
10	IC 140-51007/4	16.0	47.728171	4.8	1775563.0	2.983011	Y



Calibration / n-Octane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

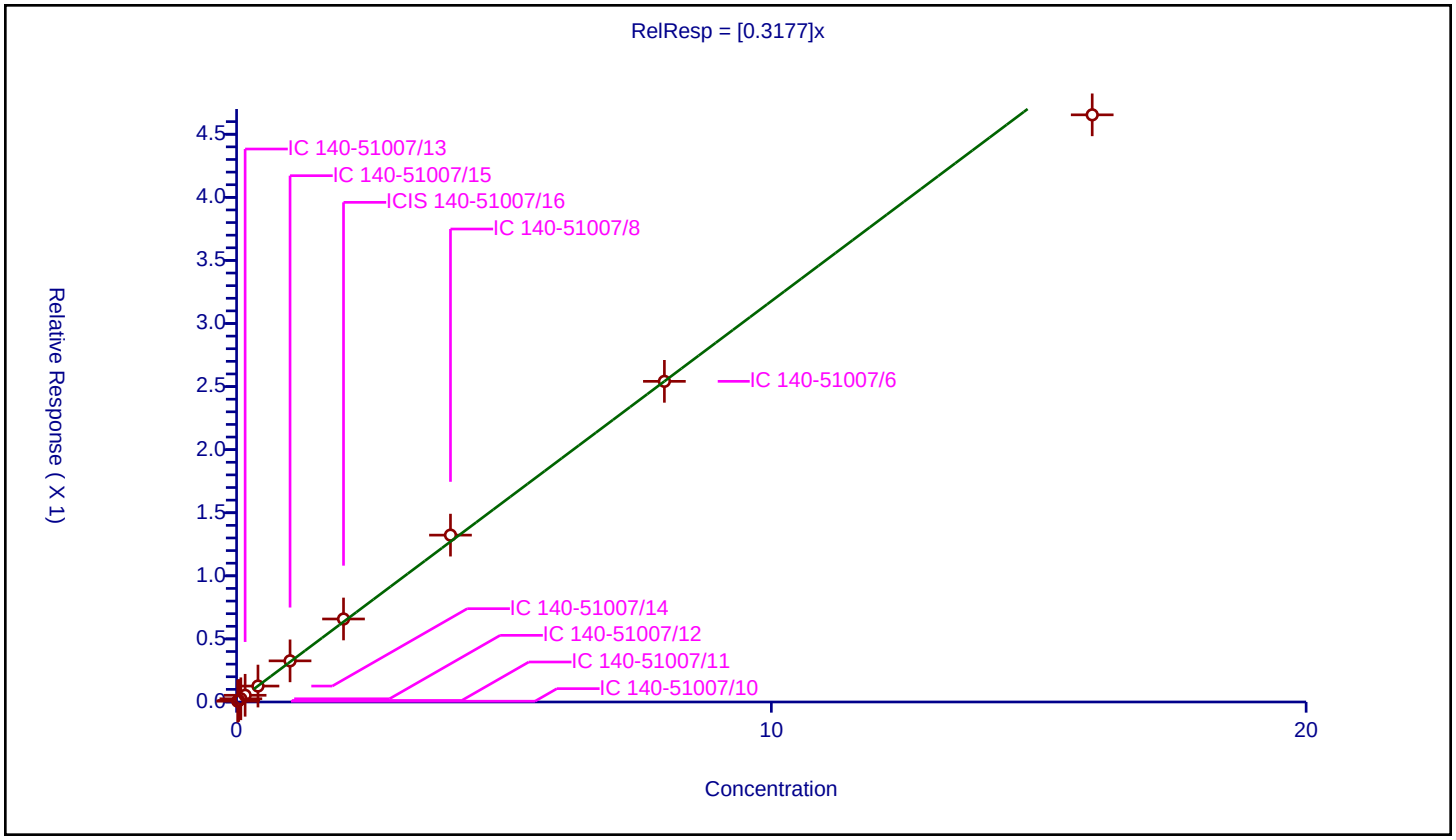
Curve Coefficients

Intercept:	0
Slope:	0.3177

Error Coefficients

Standard Error:	665000
Relative Standard Error:	4.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.006252	4.8	1590004.0	0.312603	Y
2	IC 140-51007/11	0.04	0.012223	4.8	1526419.0	0.305578	Y
3	IC 140-51007/12	0.08	0.025375	4.8	1474349.0	0.317184	Y
4	IC 140-51007/13	0.16	0.053162	4.8	1449526.0	0.33226	Y
5	IC 140-51007/14	0.4	0.126186	4.8	1427682.0	0.315465	Y
6	IC 140-51007/15	1.0	0.32597	4.8	1438027.0	0.32597	Y
7	ICIS 140-51007/16	2.0	0.657944	4.8	1474901.0	0.328972	Y
8	IC 140-51007/8	4.0	1.322698	4.8	1696122.0	0.330675	Y
9	IC 140-51007/6	8.0	2.54164	4.8	1754996.0	0.317705	Y
10	IC 140-51007/4	16.0	4.653874	4.8	1741193.0	0.290867	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

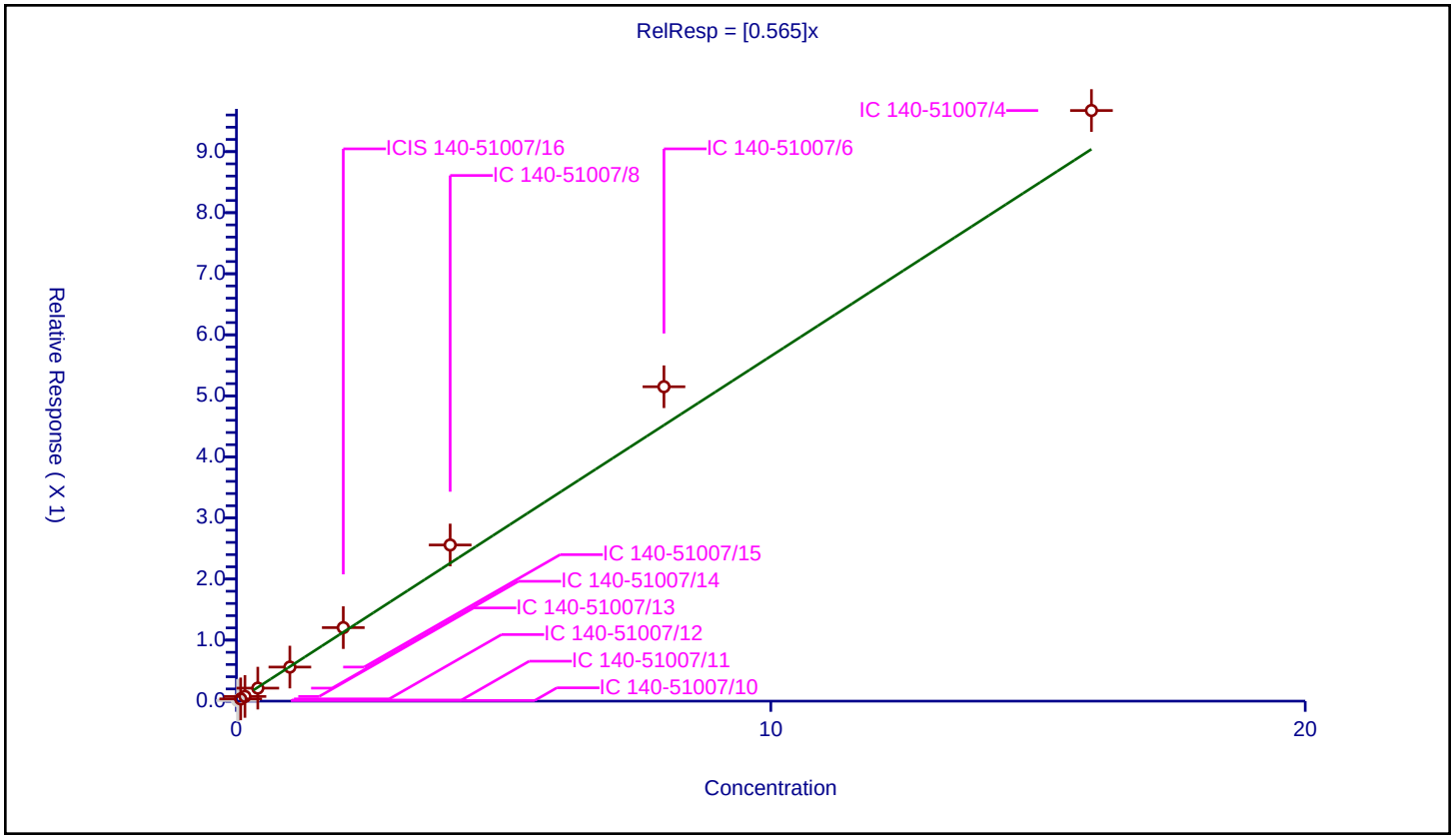
Curve Coefficients

Intercept:	0
Slope:	0.565

Error Coefficients

Standard Error:	1550000
Relative Standard Error:	12.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.010331	4.8	1590004.0	0.516527	N
2	IC 140-51007/11	0.04	0.018314	4.8	1526419.0	0.457856	N
3	IC 140-51007/12	0.08	0.036766	4.8	1474349.0	0.459579	Y
4	IC 140-51007/13	0.16	0.076782	4.8	1449526.0	0.479888	Y
5	IC 140-51007/14	0.4	0.212995	4.8	1427682.0	0.532488	Y
6	IC 140-51007/15	1.0	0.558232	4.8	1438027.0	0.558232	Y
7	ICIS 140-51007/16	2.0	1.204077	4.8	1474901.0	0.602039	Y
8	IC 140-51007/8	4.0	2.557661	4.8	1696122.0	0.639415	Y
9	IC 140-51007/6	8.0	5.149534	4.8	1754996.0	0.643692	Y
10	IC 140-51007/4	16.0	9.673238	4.8	1741193.0	0.604577	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

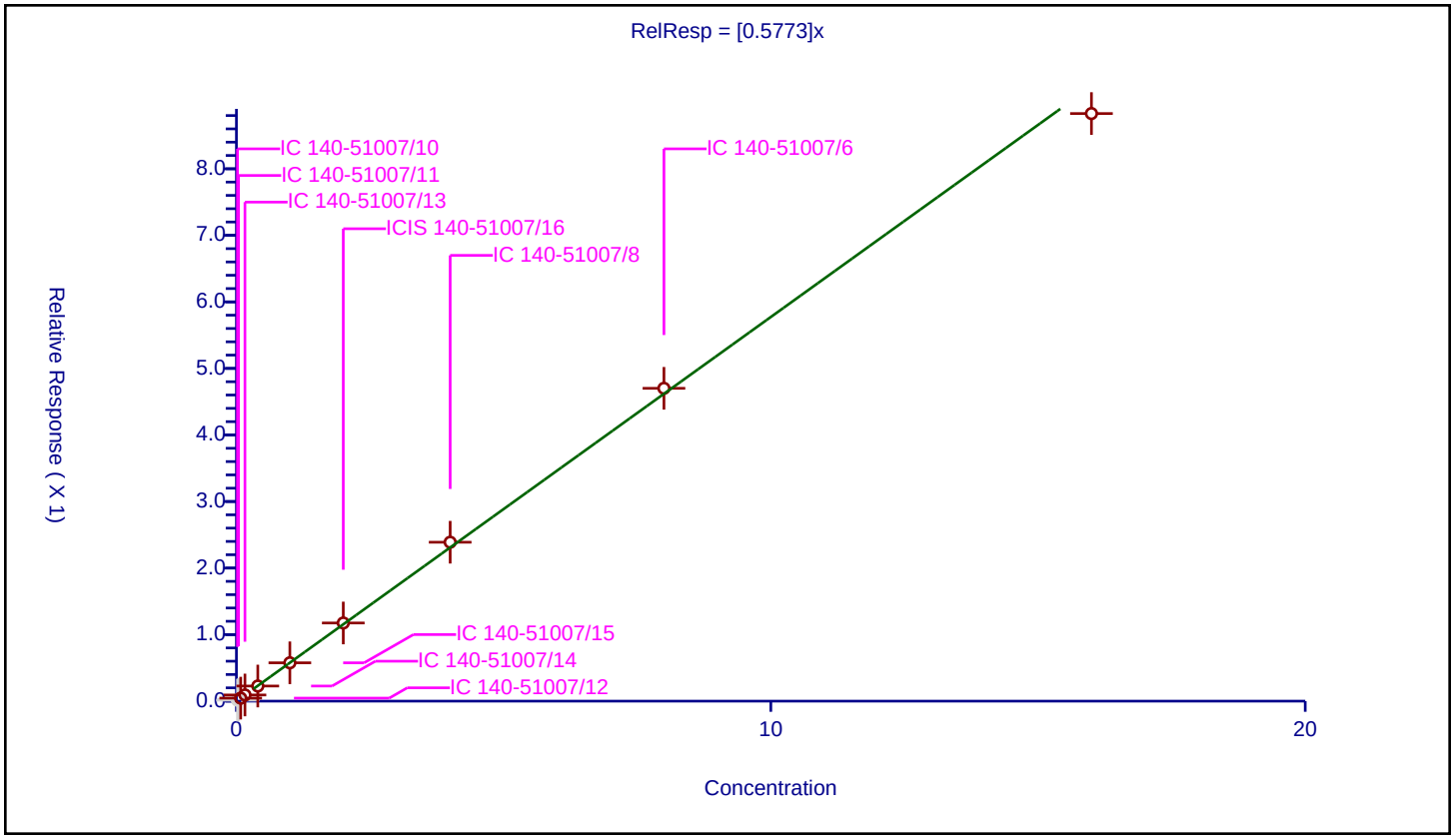
Curve Coefficients

Intercept:	0
Slope:	0.5773

Error Coefficients

Standard Error:	1420000
Relative Standard Error:	2.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.014696	4.8	1590004.0	0.734791	N
2	IC 140-51007/11	0.04	0.024641	4.8	1526419.0	0.61603	N
3	IC 140-51007/12	0.08	0.045622	4.8	1474349.0	0.570272	Y
4	IC 140-51007/13	0.16	0.092746	4.8	1449526.0	0.579665	Y
5	IC 140-51007/14	0.4	0.227318	4.8	1427682.0	0.568295	Y
6	IC 140-51007/15	1.0	0.575989	4.8	1438027.0	0.575989	Y
7	ICIS 140-51007/16	2.0	1.17468	4.8	1474901.0	0.58734	Y
8	IC 140-51007/8	4.0	2.388055	4.8	1696122.0	0.597014	Y
9	IC 140-51007/6	8.0	4.700923	4.8	1754996.0	0.587615	Y
10	IC 140-51007/4	16.0	8.830084	4.8	1741193.0	0.55188	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

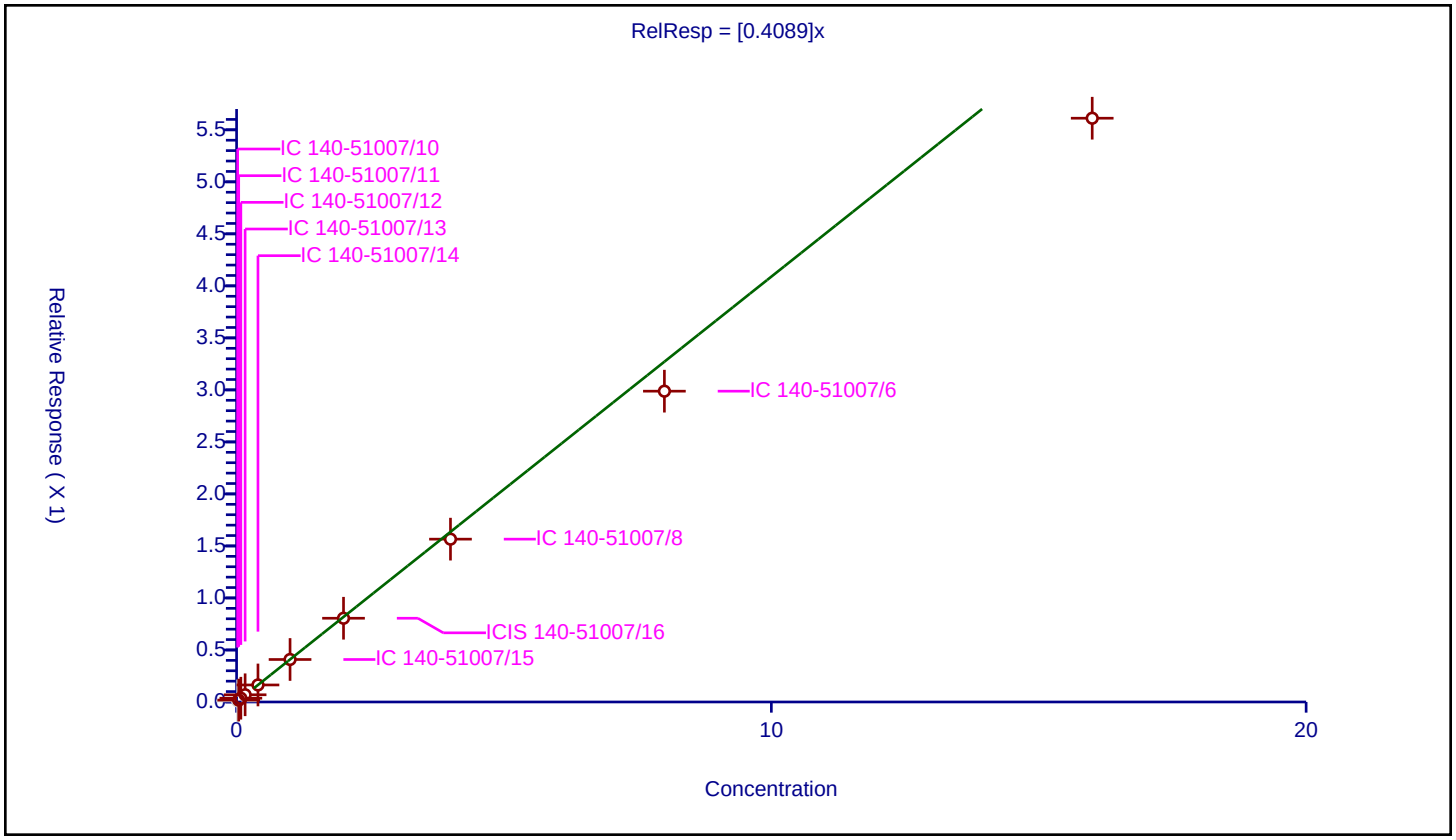
Curve Coefficients

Intercept:	0
Slope:	0.4089

Error Coefficients

Standard Error:	846000
Relative Standard Error:	8.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.010744	4.8	1590004.0	0.537206	N
2	IC 140-51007/11	0.04	0.018239	4.8	1526419.0	0.455969	Y
3	IC 140-51007/12	0.08	0.036372	4.8	1474349.0	0.454655	Y
4	IC 140-51007/13	0.16	0.069345	4.8	1449526.0	0.433404	Y
5	IC 140-51007/14	0.4	0.163694	4.8	1427682.0	0.409234	Y
6	IC 140-51007/15	1.0	0.408523	4.8	1438027.0	0.408523	Y
7	ICIS 140-51007/16	2.0	0.804957	4.8	1474901.0	0.402479	Y
8	IC 140-51007/8	4.0	1.565248	4.8	1696122.0	0.391312	Y
9	IC 140-51007/6	8.0	2.987778	4.8	1754996.0	0.373472	Y
10	IC 140-51007/4	16.0	5.611488	4.8	1741193.0	0.350718	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

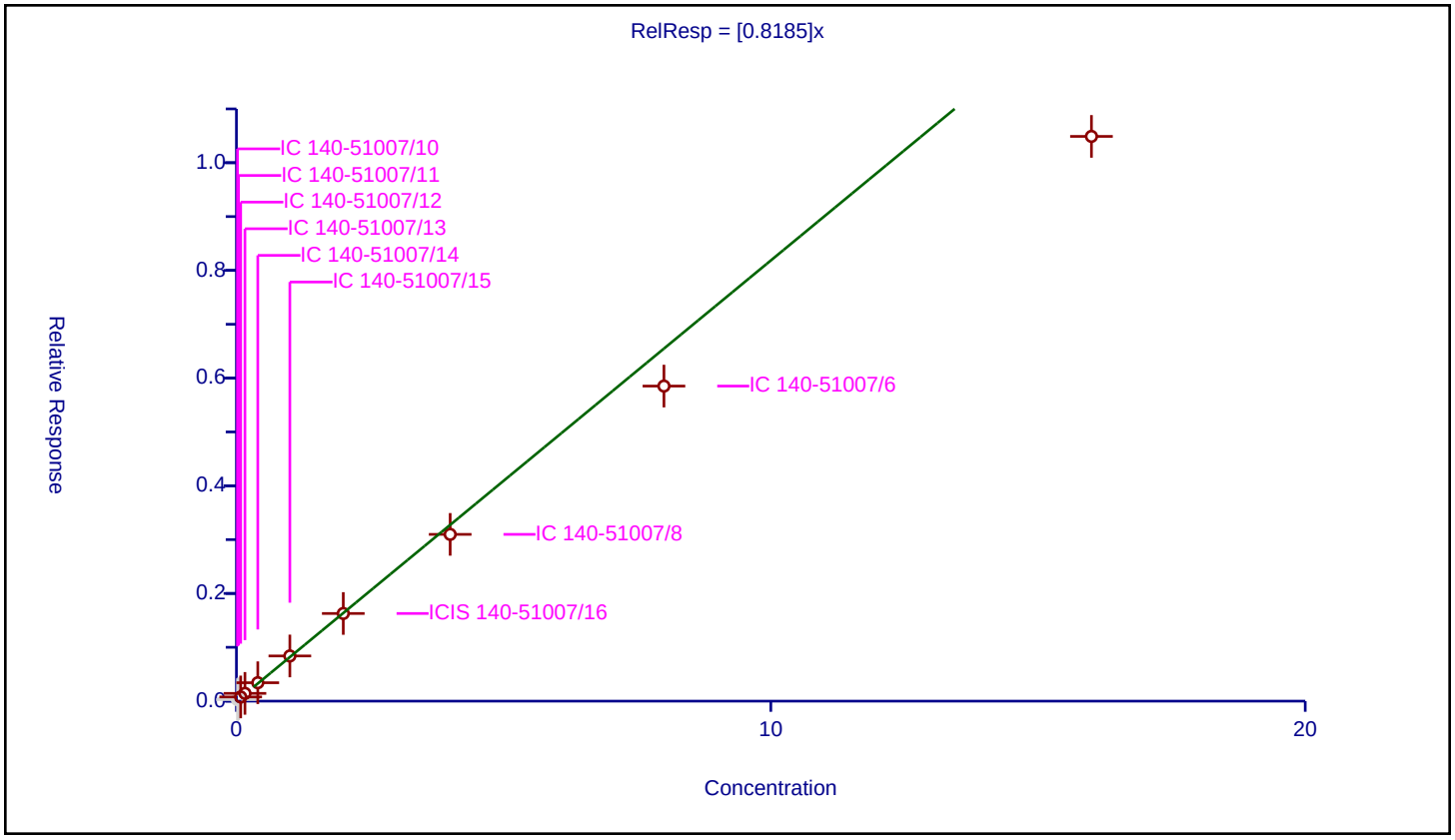
Curve Coefficients

Intercept:	0
Slope:	0.8185

Error Coefficients

Standard Error:	1710000
Relative Standard Error:	12.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.028042	4.8	1590004.0	1.40211	N
2	IC 140-51007/11	0.04	0.044248	4.8	1526419.0	1.106197	N
3	IC 140-51007/12	0.08	0.078136	4.8	1474349.0	0.976702	Y
4	IC 140-51007/13	0.16	0.144233	4.8	1449526.0	0.901453	Y
5	IC 140-51007/14	0.4	0.341878	4.8	1427682.0	0.854695	Y
6	IC 140-51007/15	1.0	0.83946	4.8	1438027.0	0.83946	Y
7	ICIS 140-51007/16	2.0	1.628032	4.8	1474901.0	0.814016	Y
8	IC 140-51007/8	4.0	3.097269	4.8	1696122.0	0.774317	Y
9	IC 140-51007/6	8.0	5.85181	4.8	1754996.0	0.731476	Y
10	IC 140-51007/4	16.0	10.4892	4.8	1741193.0	0.655575	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

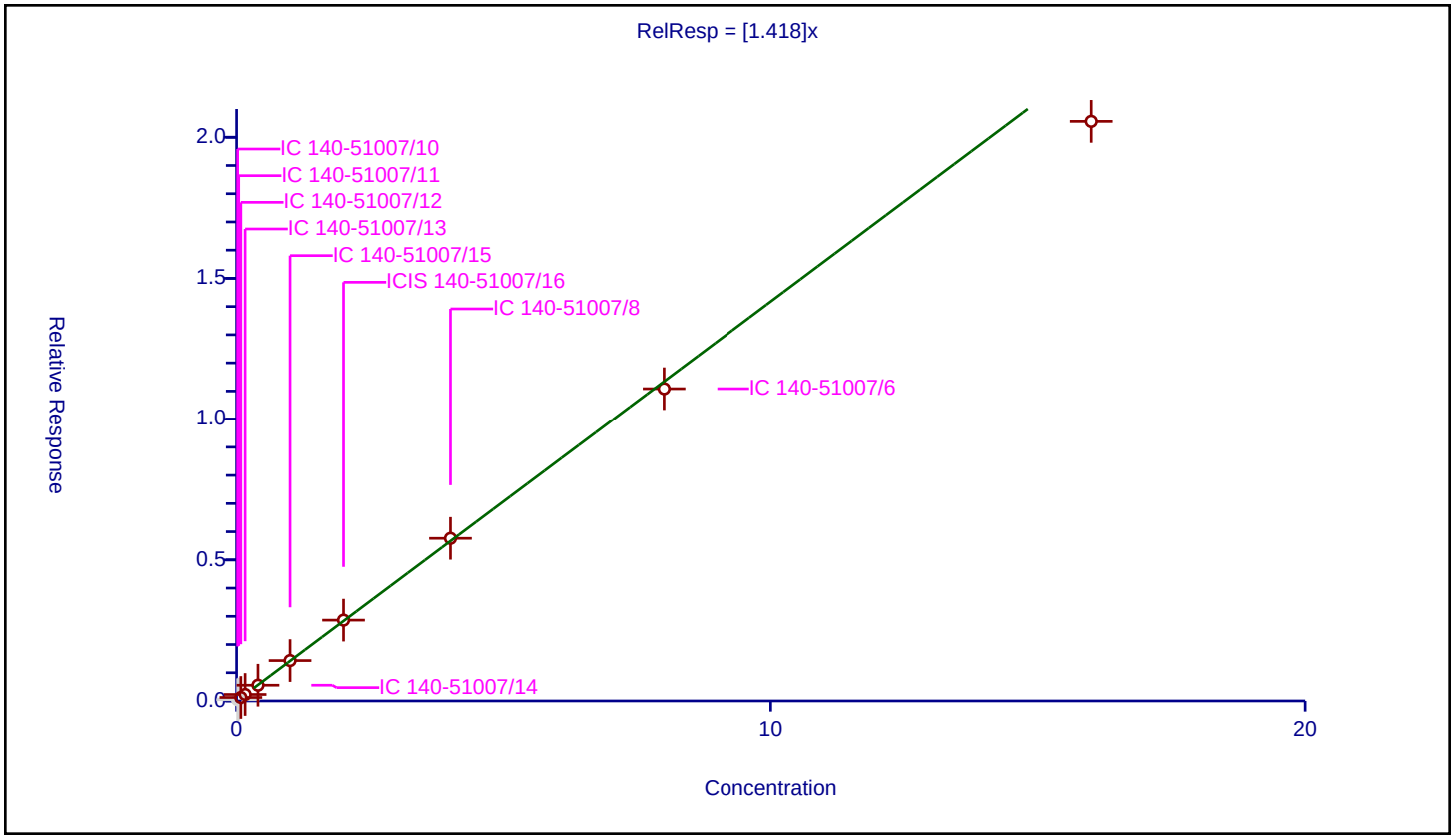
Curve Coefficients

Intercept:	0
Slope:	1.418

Error Coefficients

Standard Error:	3320000
Relative Standard Error:	5.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.042783	4.8	1590004.0	2.139164	N
2	IC 140-51007/11	0.04	0.066804	4.8	1526419.0	1.670105	N
3	IC 140-51007/12	0.08	0.123185	4.8	1474349.0	1.539812	Y
4	IC 140-51007/13	0.16	0.228936	4.8	1449526.0	1.430847	Y
5	IC 140-51007/14	0.4	0.557943	4.8	1427682.0	1.394857	Y
6	IC 140-51007/15	1.0	1.430784	4.8	1438027.0	1.430784	Y
7	ICIS 140-51007/16	2.0	2.864718	4.8	1474901.0	1.432359	Y
8	IC 140-51007/8	4.0	5.765418	4.8	1696122.0	1.441355	Y
9	IC 140-51007/6	8.0	11.082867	4.8	1754996.0	1.385358	Y
10	IC 140-51007/4	16.0	20.562589	4.8	1741193.0	1.285162	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

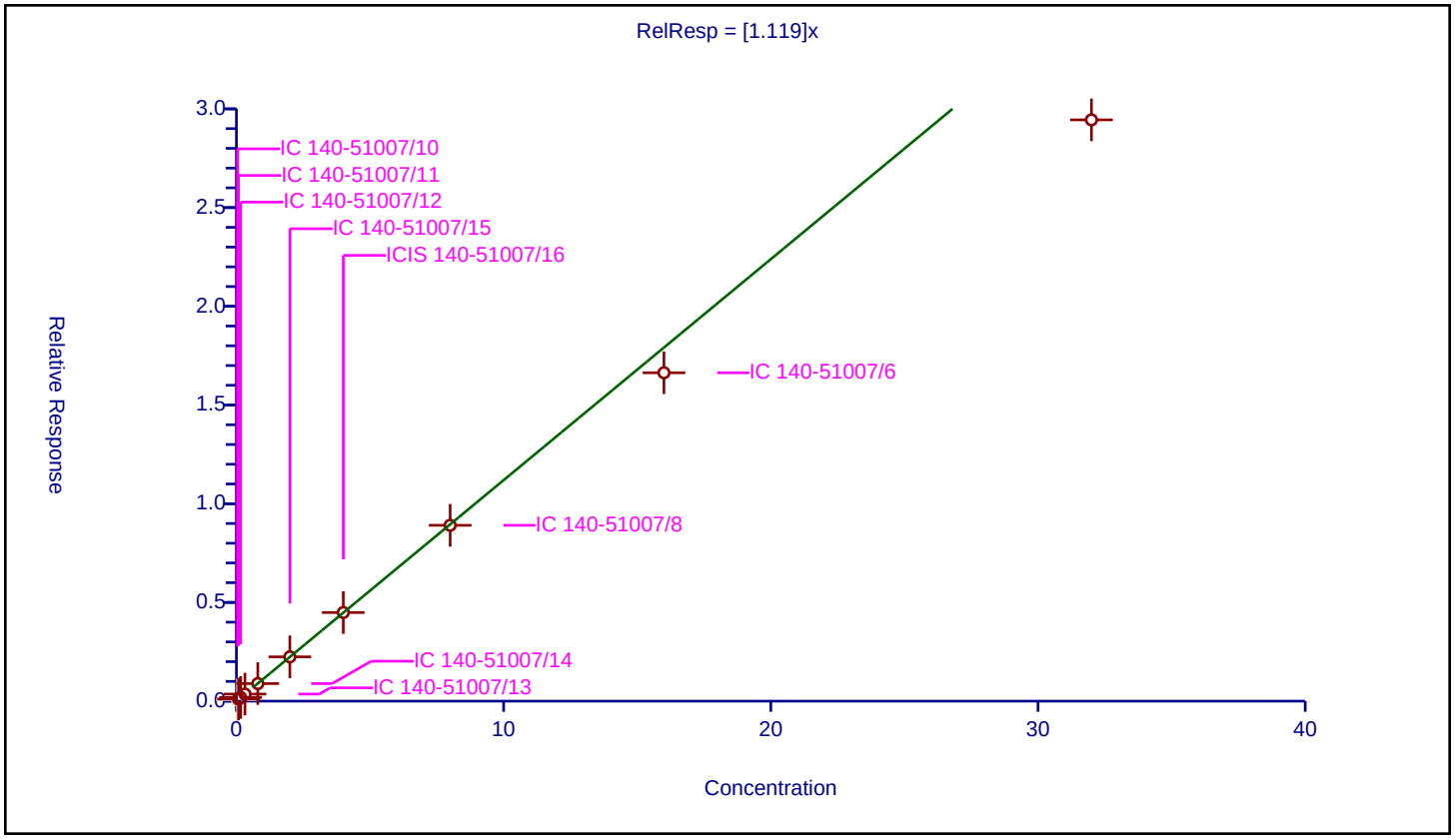
Curve Coefficients

Intercept:	0
Slope:	1.119

Error Coefficients

Standard Error:	4520000
Relative Standard Error:	10.3
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.04	0.067994	4.8	1590004.0	1.699845	N
2	IC 140-51007/11	0.08	0.108634	4.8	1526419.0	1.357923	Y
3	IC 140-51007/12	0.16	0.187061	4.8	1474349.0	1.169133	Y
4	IC 140-51007/13	0.32	0.357694	4.8	1449526.0	1.117793	Y
5	IC 140-51007/14	0.8	0.889556	4.8	1427682.0	1.111945	Y
6	IC 140-51007/15	2.0	2.244091	4.8	1438027.0	1.122046	Y
7	ICIS 140-51007/16	4.0	4.489759	4.8	1474901.0	1.12244	Y
8	IC 140-51007/8	8.0	8.907998	4.8	1696122.0	1.1135	Y
9	IC 140-51007/6	16.0	16.633591	4.8	1754996.0	1.039599	Y
10	IC 140-51007/4	32.0	29.444113	4.8	1741193.0	0.920129	Y



Calibration / n-Nonane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

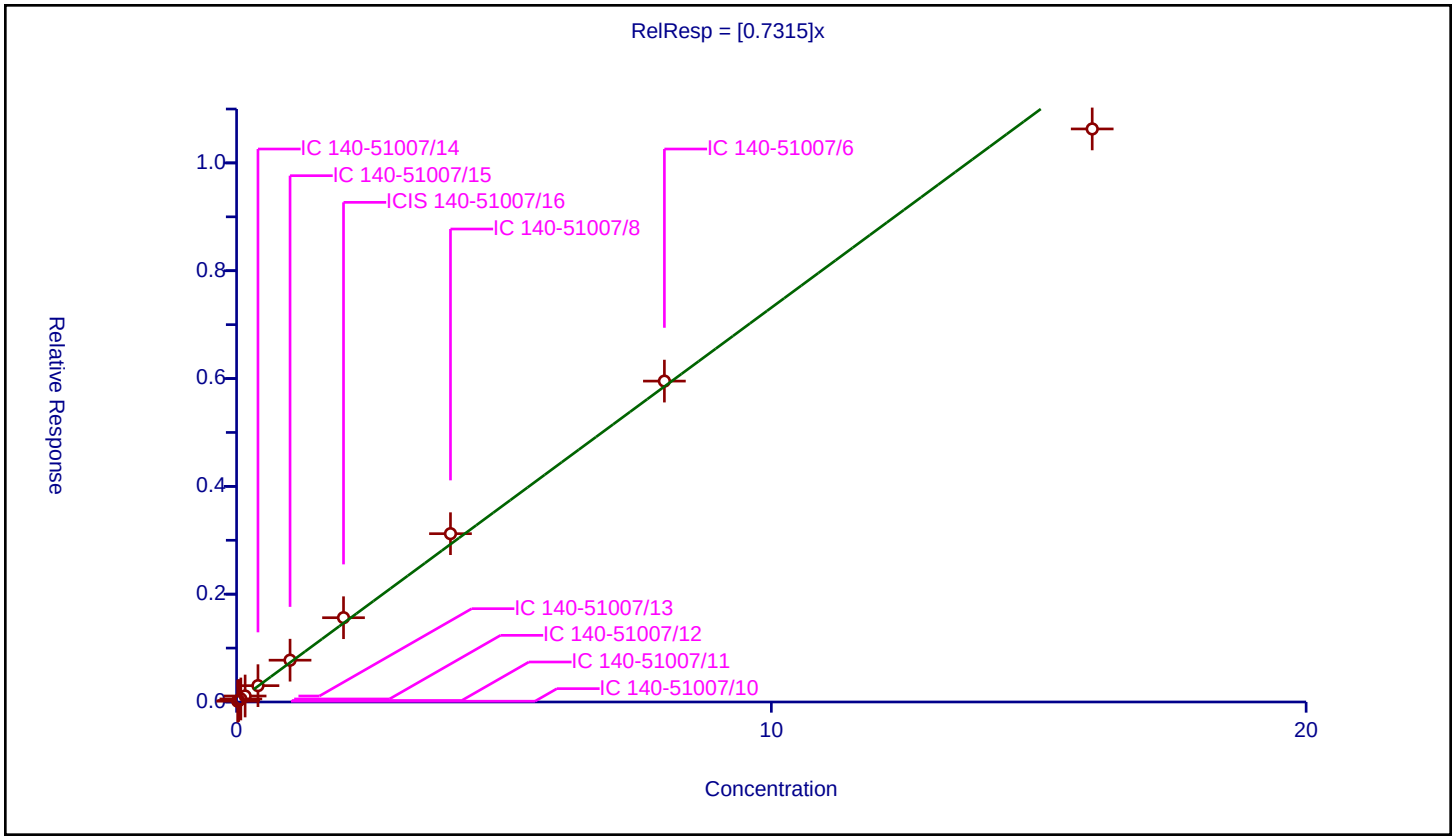
Curve Coefficients

Intercept:	0
Slope:	0.7315

Error Coefficients

Standard Error:	1530000
Relative Standard Error:	5.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.014412	4.8	1590004.0	0.720602	Y
2	IC 140-51007/11	0.04	0.027868	4.8	1526419.0	0.696689	Y
3	IC 140-51007/12	0.08	0.055919	4.8	1474349.0	0.698993	Y
4	IC 140-51007/13	0.16	0.111052	4.8	1449526.0	0.694075	Y
5	IC 140-51007/14	0.4	0.303187	4.8	1427682.0	0.757967	Y
6	IC 140-51007/15	1.0	0.775633	4.8	1438027.0	0.775633	Y
7	ICIS 140-51007/16	2.0	1.563441	4.8	1474901.0	0.78172	Y
8	IC 140-51007/8	4.0	3.121969	4.8	1696122.0	0.780492	Y
9	IC 140-51007/6	8.0	5.952662	4.8	1754996.0	0.744083	Y
10	IC 140-51007/4	16.0	10.630353	4.8	1741193.0	0.664397	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

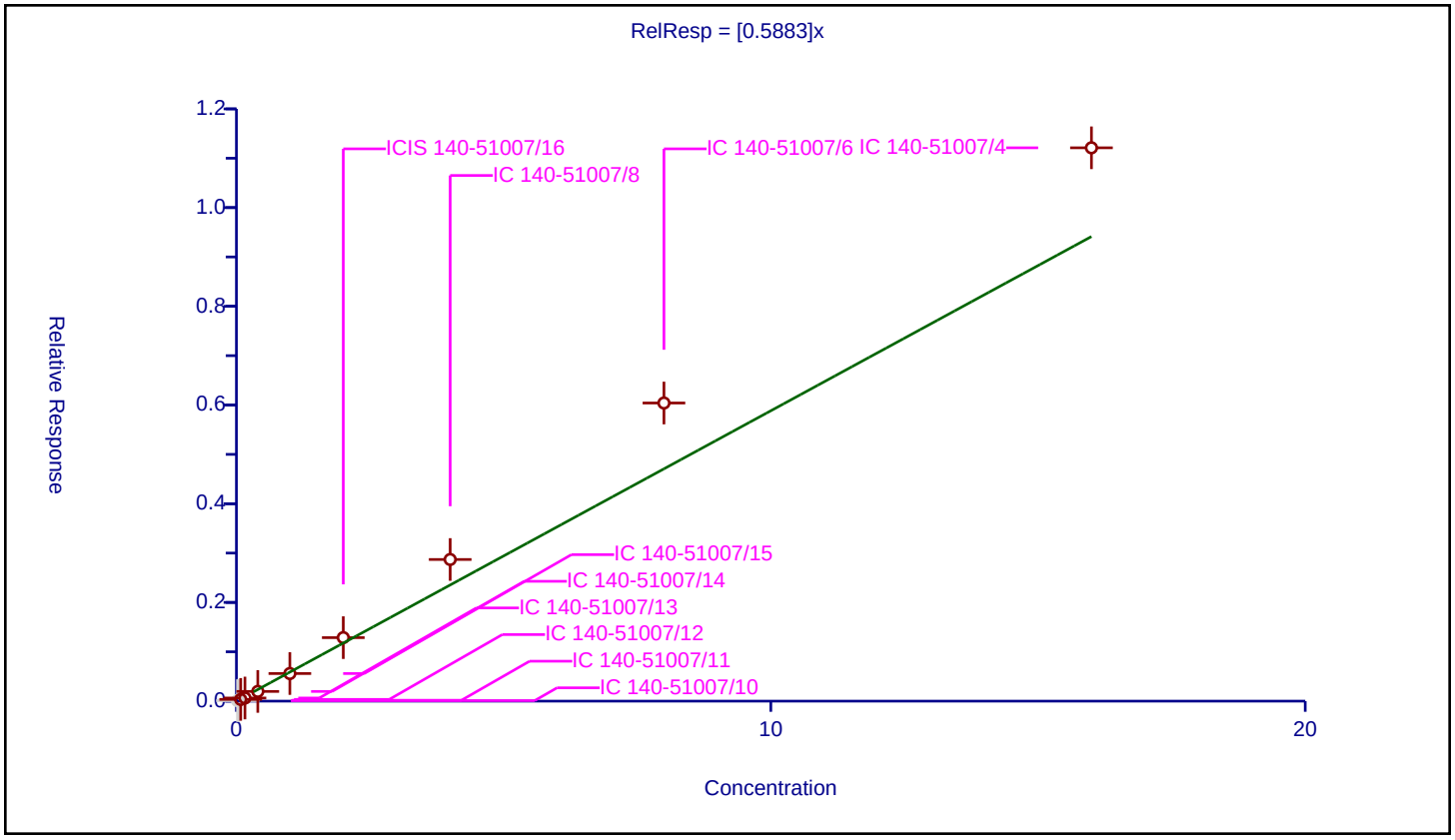
Curve Coefficients

Intercept:	0
Slope:	0.5883

Error Coefficients

Standard Error:	1800000
Relative Standard Error:	23.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.946

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.010433	4.8	1590004.0	0.521659	N
2	IC 140-51007/11	0.04	0.018038	4.8	1526419.0	0.450938	N
3	IC 140-51007/12	0.08	0.035373	4.8	1474349.0	0.442161	Y
4	IC 140-51007/13	0.16	0.063487	4.8	1449526.0	0.396792	Y
5	IC 140-51007/14	0.4	0.196555	4.8	1427682.0	0.491387	Y
6	IC 140-51007/15	1.0	0.55953	4.8	1438027.0	0.55953	Y
7	ICIS 140-51007/16	2.0	1.287023	4.8	1474901.0	0.643512	Y
8	IC 140-51007/8	4.0	2.870058	4.8	1696122.0	0.717514	Y
9	IC 140-51007/6	8.0	6.040514	4.8	1754996.0	0.755064	Y
10	IC 140-51007/4	16.0	11.211441	4.8	1741193.0	0.700715	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

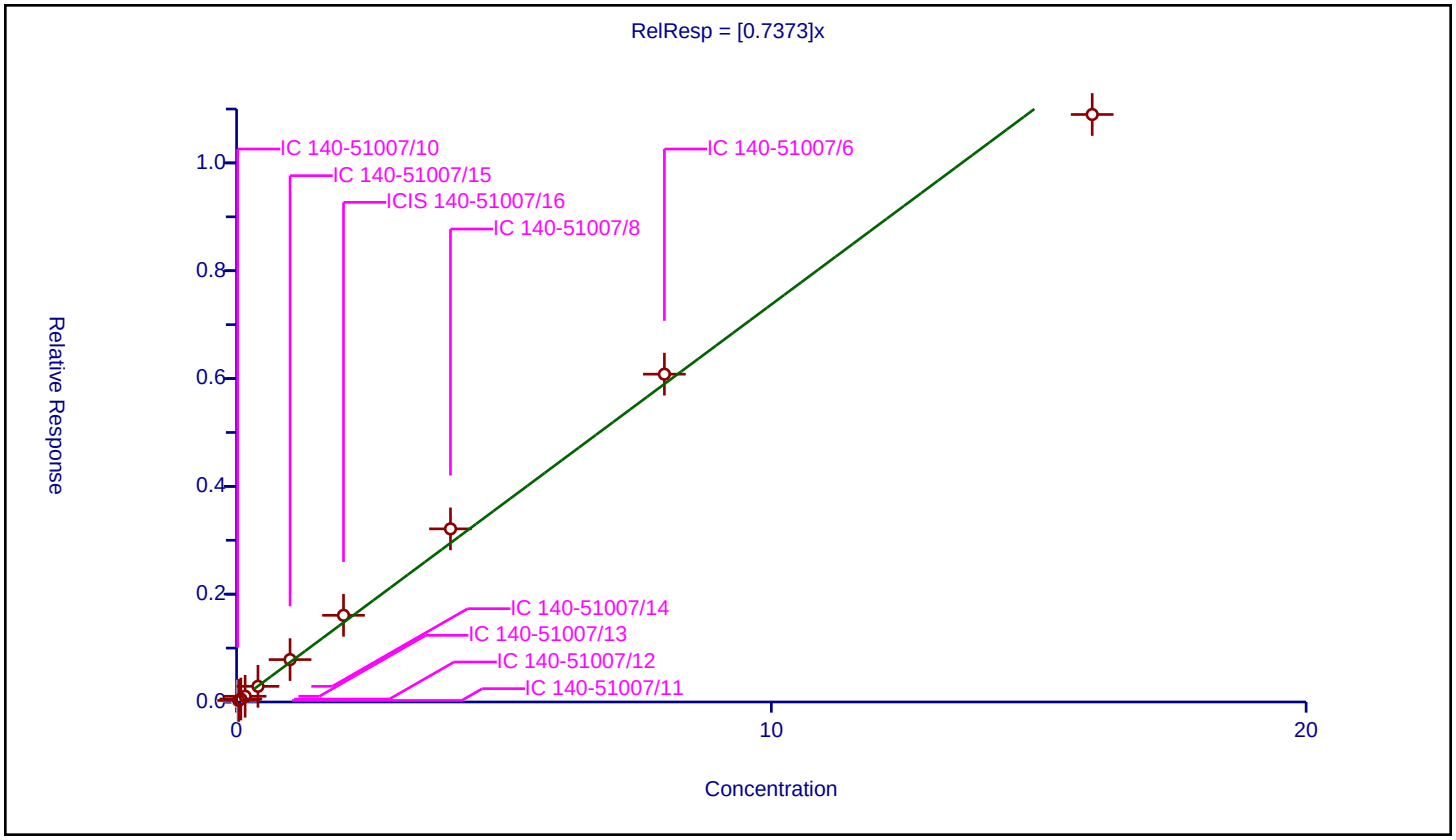
Curve Coefficients

Intercept:	0
Slope:	0.7373

Error Coefficients

Standard Error:	1660000
Relative Standard Error:	7.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.017416	4.8	1590004.0	0.87079	N
2	IC 140-51007/11	0.04	0.028824	4.8	1526419.0	0.720589	Y
3	IC 140-51007/12	0.08	0.055353	4.8	1474349.0	0.691912	Y
4	IC 140-51007/13	0.16	0.105995	4.8	1449526.0	0.662472	Y
5	IC 140-51007/14	0.4	0.290656	4.8	1427682.0	0.726641	Y
6	IC 140-51007/15	1.0	0.786134	4.8	1438027.0	0.786134	Y
7	ICIS 140-51007/16	2.0	1.608167	4.8	1474901.0	0.804083	Y
8	IC 140-51007/8	4.0	3.211877	4.8	1696122.0	0.802969	Y
9	IC 140-51007/6	8.0	6.081403	4.8	1754996.0	0.760175	Y
10	IC 140-51007/4	16.0	10.898456	4.8	1741193.0	0.681153	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

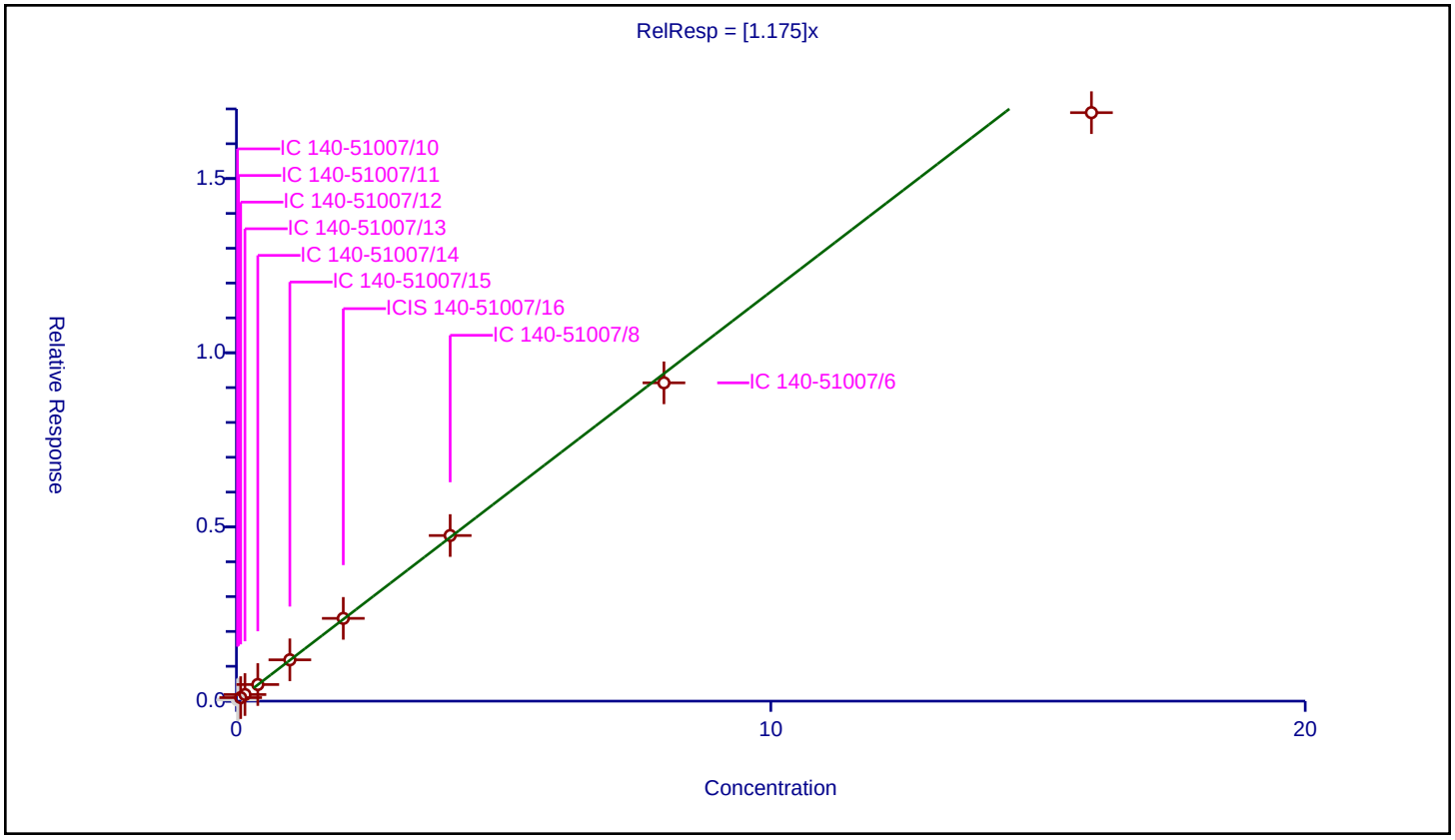
Curve Coefficients

Intercept:	0
Slope:	1.175

Error Coefficients

Standard Error:	2730000
Relative Standard Error:	5.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.033799	4.8	1590004.0	1.689958	N
2	IC 140-51007/11	0.04	0.056996	4.8	1526419.0	1.424904	N
3	IC 140-51007/12	0.08	0.101431	4.8	1474349.0	1.267882	Y
4	IC 140-51007/13	0.16	0.189281	4.8	1449526.0	1.183007	Y
5	IC 140-51007/14	0.4	0.476456	4.8	1427682.0	1.191139	Y
6	IC 140-51007/15	1.0	1.186145	4.8	1438027.0	1.186145	Y
7	ICIS 140-51007/16	2.0	2.375541	4.8	1474901.0	1.187771	Y
8	IC 140-51007/8	4.0	4.753999	4.8	1696122.0	1.1885	Y
9	IC 140-51007/6	8.0	9.136811	4.8	1754996.0	1.142101	Y
10	IC 140-51007/4	16.0	16.89193	4.8	1741193.0	1.055746	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

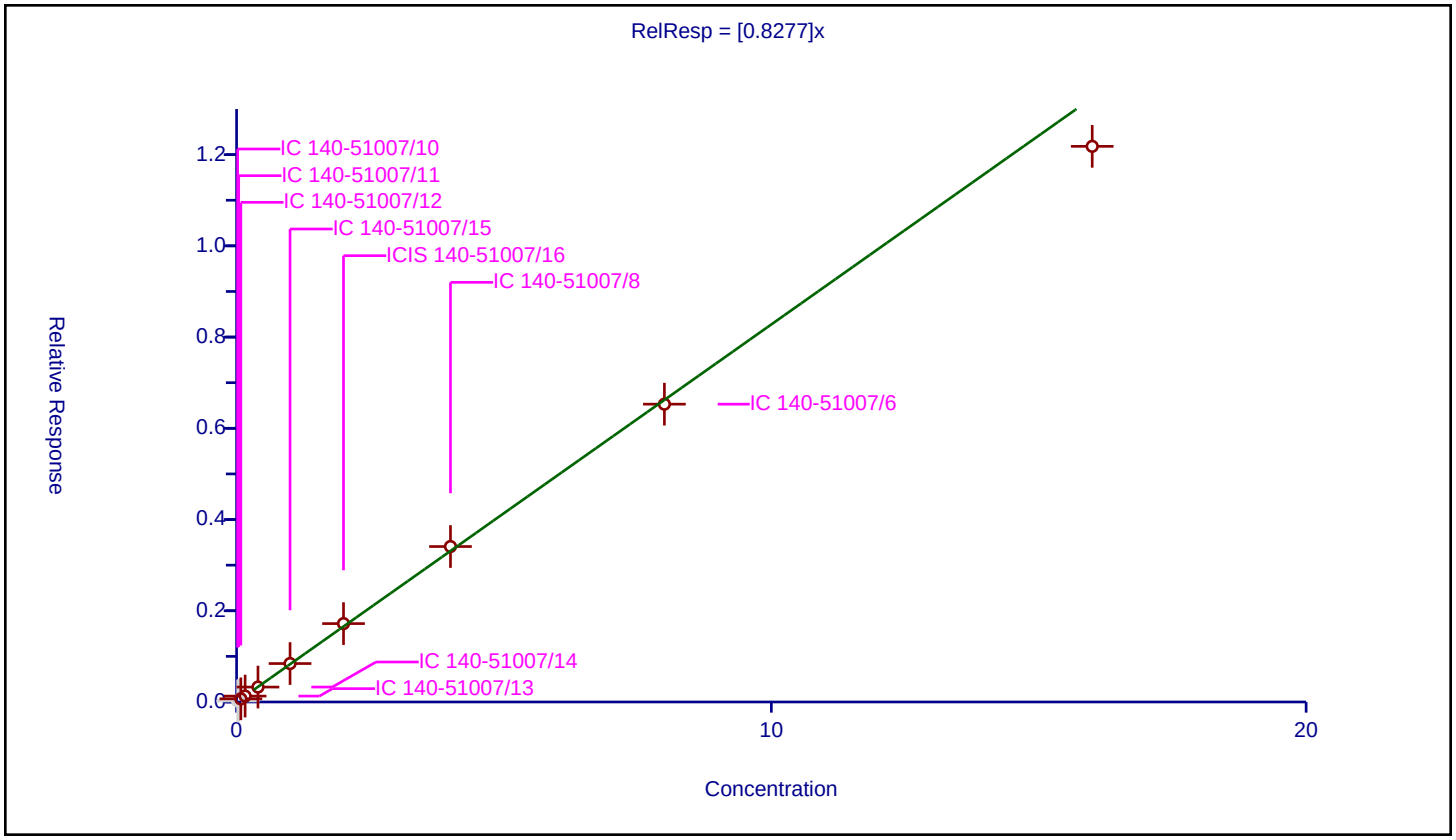
Curve Coefficients

Intercept:	0
Slope:	0.8277

Error Coefficients

Standard Error:	1970000
Relative Standard Error:	4.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.022527	4.8	1590004.0	1.126337	N
2	IC 140-51007/11	0.04	0.036732	4.8	1526419.0	0.918306	N
3	IC 140-51007/12	0.08	0.06903	4.8	1474349.0	0.862876	Y
4	IC 140-51007/13	0.16	0.129497	4.8	1449526.0	0.809354	Y
5	IC 140-51007/14	0.4	0.327283	4.8	1427682.0	0.818207	Y
6	IC 140-51007/15	1.0	0.842491	4.8	1438027.0	0.842491	Y
7	ICIS 140-51007/16	2.0	1.718694	4.8	1474901.0	0.859347	Y
8	IC 140-51007/8	4.0	3.408194	4.8	1696122.0	0.852048	Y
9	IC 140-51007/6	8.0	6.529454	4.8	1754996.0	0.816182	Y
10	IC 140-51007/4	16.0	12.181618	4.8	1741193.0	0.761351	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

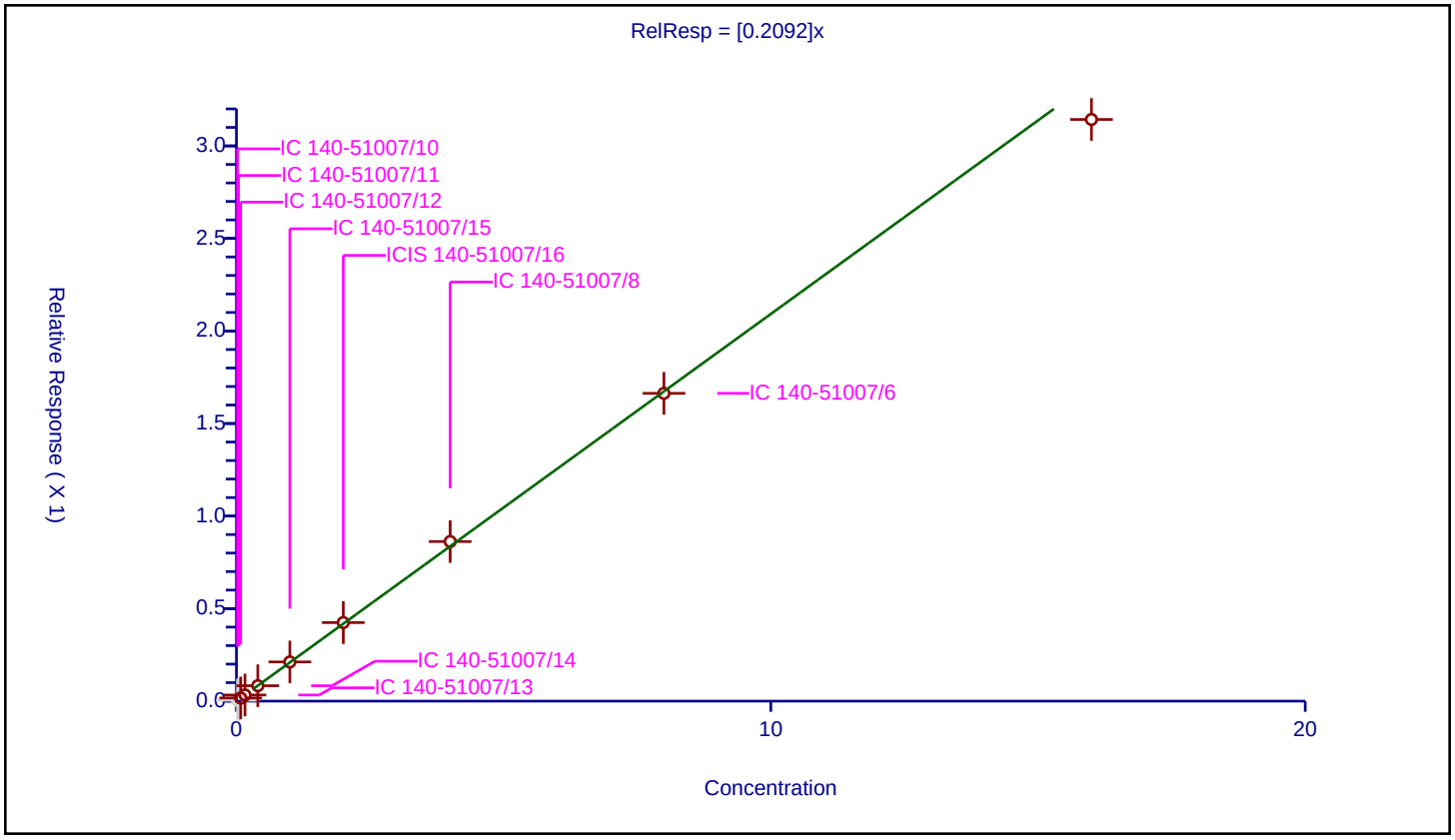
Curve Coefficients

Intercept:	0
Slope:	0.2092

Error Coefficients

Standard Error:	505000
Relative Standard Error:	2.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.004984	4.8	1590004.0	0.249207	N
2	IC 140-51007/11	0.04	0.009119	4.8	1526419.0	0.227985	N
3	IC 140-51007/12	0.08	0.017096	4.8	1474349.0	0.213694	Y
4	IC 140-51007/13	0.16	0.03324	4.8	1449526.0	0.207751	Y
5	IC 140-51007/14	0.4	0.083235	4.8	1427682.0	0.208088	Y
6	IC 140-51007/15	1.0	0.21177	4.8	1438027.0	0.21177	Y
7	ICIS 140-51007/16	2.0	0.424524	4.8	1474901.0	0.212262	Y
8	IC 140-51007/8	4.0	0.862305	4.8	1696122.0	0.215576	Y
9	IC 140-51007/6	8.0	1.663101	4.8	1754996.0	0.207888	Y
10	IC 140-51007/4	16.0	3.142855	4.8	1741193.0	0.196428	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

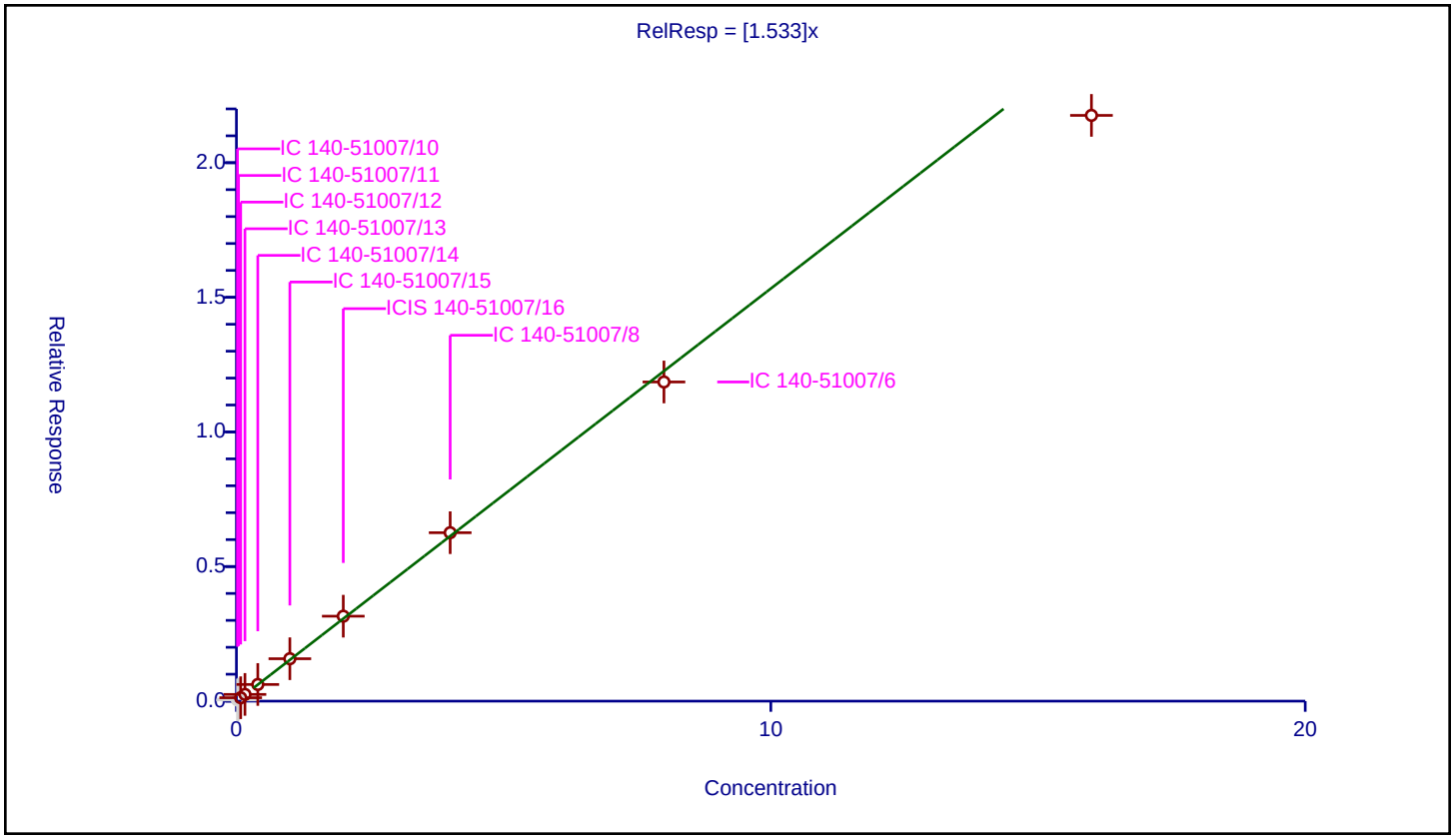
Curve Coefficients

Intercept:	0
Slope:	1.533

Error Coefficients

Standard Error:	3530000
Relative Standard Error:	5.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.042744	4.8	1590004.0	2.137202	N
2	IC 140-51007/11	0.04	0.071131	4.8	1526419.0	1.77828	N
3	IC 140-51007/12	0.08	0.12746	4.8	1474349.0	1.593246	Y
4	IC 140-51007/13	0.16	0.249526	4.8	1449526.0	1.559537	Y
5	IC 140-51007/14	0.4	0.619008	4.8	1427682.0	1.547521	Y
6	IC 140-51007/15	1.0	1.575769	4.8	1438027.0	1.575769	Y
7	ICIS 140-51007/16	2.0	3.156031	4.8	1474901.0	1.578016	Y
8	IC 140-51007/8	4.0	6.257004	4.8	1696122.0	1.564251	Y
9	IC 140-51007/6	8.0	11.855934	4.8	1754996.0	1.481992	Y
10	IC 140-51007/4	16.0	21.758298	4.8	1741193.0	1.359894	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

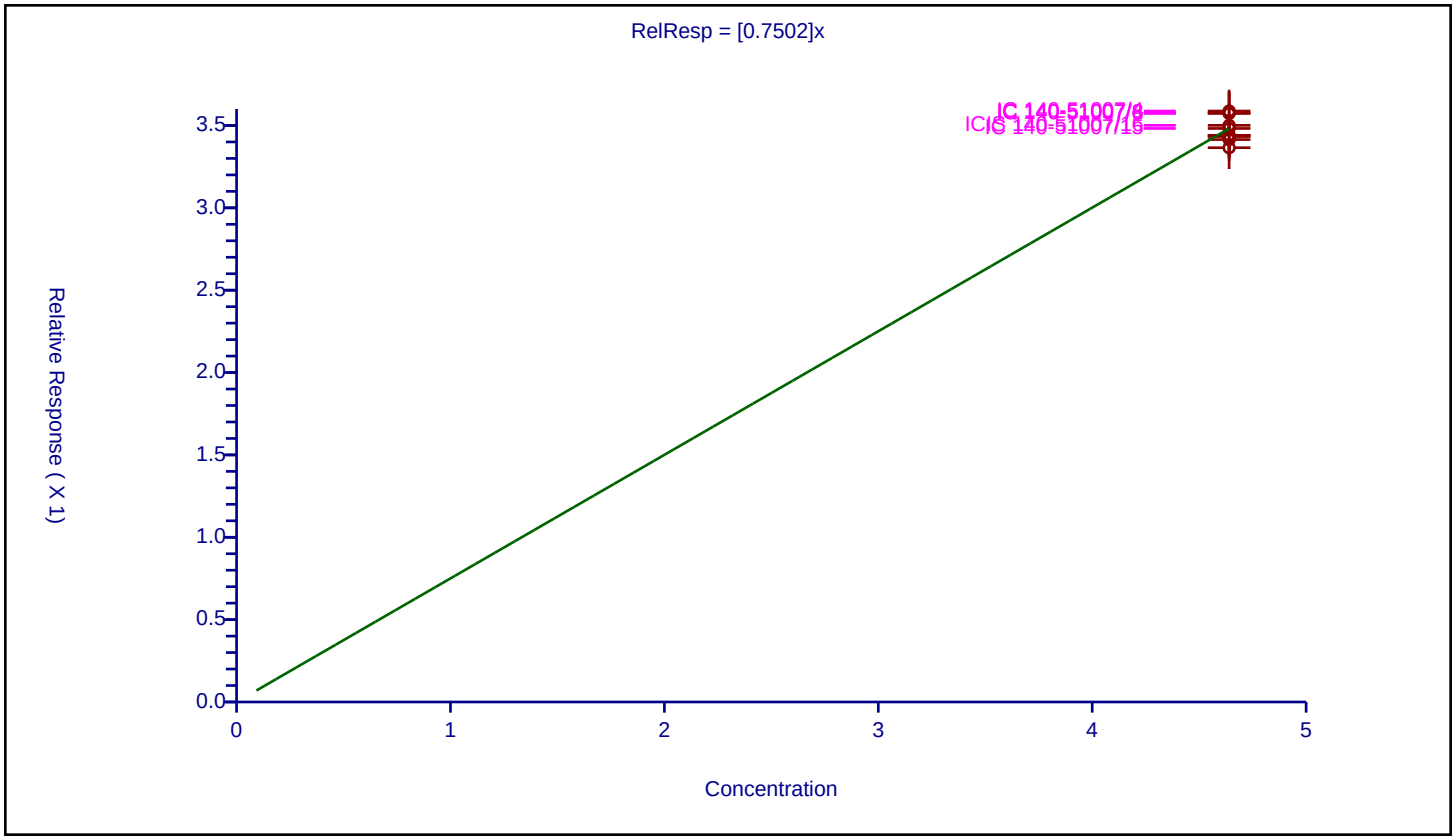
Curve Coefficients

Intercept:	0
Slope:	0.7502

Error Coefficients

Standard Error:	1200000
Relative Standard Error:	2.2
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0.000000000000000222

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/4	4.64	3.58775	4.8	1741193.0	0.773222	Y
2	IC 140-51007/6	4.64	3.575259	4.8	1754996.0	0.77053	Y
3	IC 140-51007/8	4.64	3.573649	4.8	1696122.0	0.770183	Y
4	IC 140-51007/10	4.64	3.44004	4.8	1590004.0	0.741388	Y
5	IC 140-51007/11	4.64	3.432677	4.8	1526419.0	0.739801	Y
6	IC 140-51007/12	4.64	3.414447	4.8	1474349.0	0.735872	Y
7	IC 140-51007/13	4.64	3.365106	4.8	1449526.0	0.725238	Y
8	IC 140-51007/14	4.64	3.439778	4.8	1427682.0	0.741331	Y
9	IC 140-51007/15	4.64	3.481981	4.8	1438027.0	0.750427	Y
10	ICIS 140-51007/16	4.64	3.500727	4.8	1474901.0	0.754467	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

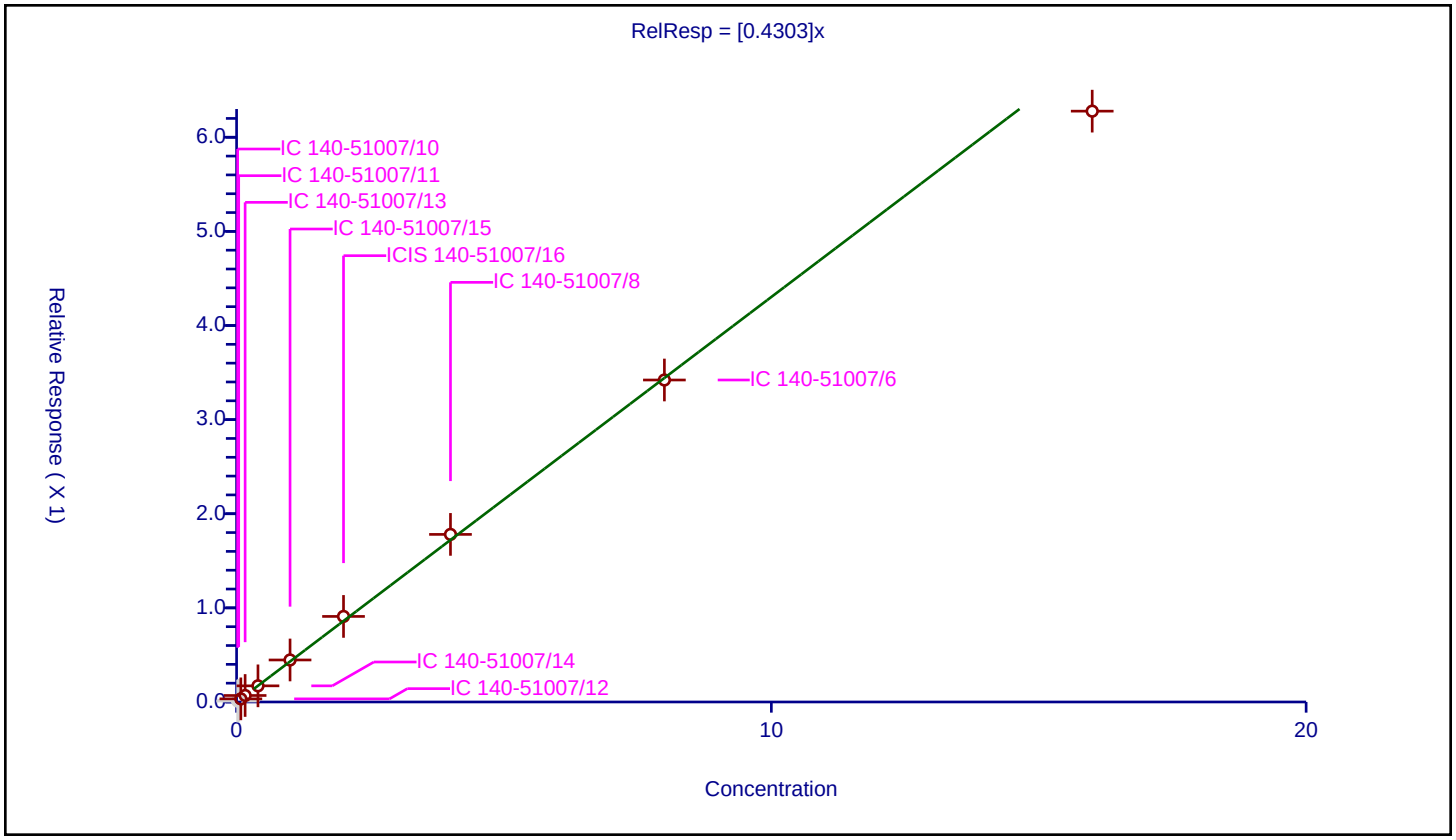
Curve Coefficients

Intercept:	0
Slope:	0.4303

Error Coefficients

Standard Error:	1020000
Relative Standard Error:	4.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.009681	4.8	1590004.0	0.484074	N
2	IC 140-51007/11	0.04	0.01827	4.8	1526419.0	0.456755	N
3	IC 140-51007/12	0.08	0.033328	4.8	1474349.0	0.416604	Y
4	IC 140-51007/13	0.16	0.068884	4.8	1449526.0	0.430527	Y
5	IC 140-51007/14	0.4	0.171642	4.8	1427682.0	0.429104	Y
6	IC 140-51007/15	1.0	0.446478	4.8	1438027.0	0.446478	Y
7	ICIS 140-51007/16	2.0	0.90908	4.8	1474901.0	0.45454	Y
8	IC 140-51007/8	4.0	1.780454	4.8	1696122.0	0.445114	Y
9	IC 140-51007/6	8.0	3.420986	4.8	1754996.0	0.427623	Y
10	IC 140-51007/4	16.0	6.277233	4.8	1741193.0	0.392327	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

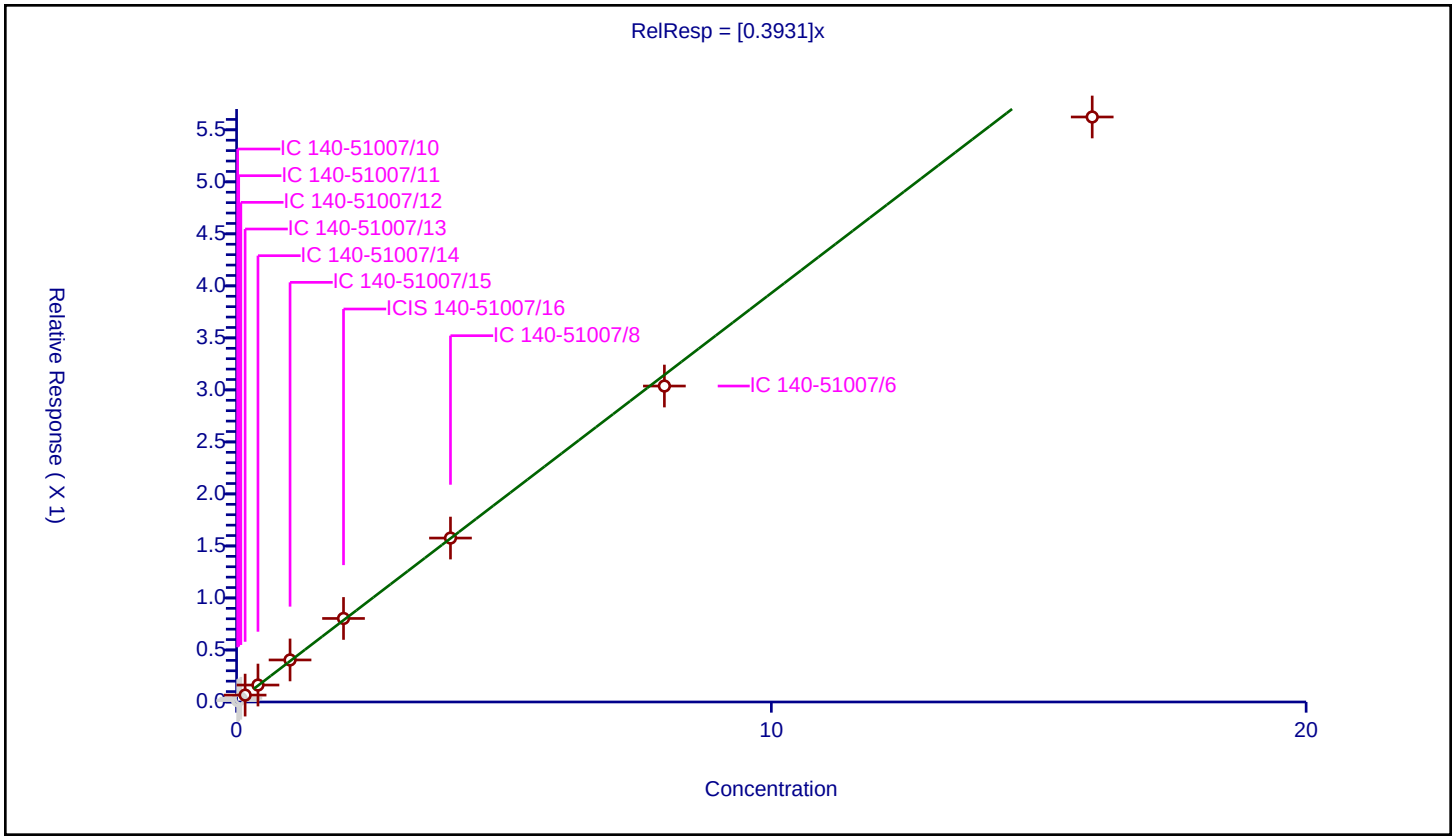
Curve Coefficients

Intercept:	0
Slope:	0.3931

Error Coefficients

Standard Error:	982000
Relative Standard Error:	5.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.013129	4.8	1590004.0	0.656451	N
2	IC 140-51007/11	0.04	0.020273	4.8	1526419.0	0.506833	N
3	IC 140-51007/12	0.08	0.03577	4.8	1474349.0	0.447126	N
4	IC 140-51007/13	0.16	0.066146	4.8	1449526.0	0.413411	Y
5	IC 140-51007/14	0.4	0.16293	4.8	1427682.0	0.407326	Y
6	IC 140-51007/15	1.0	0.40412	4.8	1438027.0	0.40412	Y
7	ICIS 140-51007/16	2.0	0.80293	4.8	1474901.0	0.401465	Y
8	IC 140-51007/8	4.0	1.575872	4.8	1696122.0	0.393968	Y
9	IC 140-51007/6	8.0	3.03722	4.8	1754996.0	0.379652	Y
10	IC 140-51007/4	16.0	5.623328	4.8	1741193.0	0.351458	Y



Calibration / 4-Ethyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

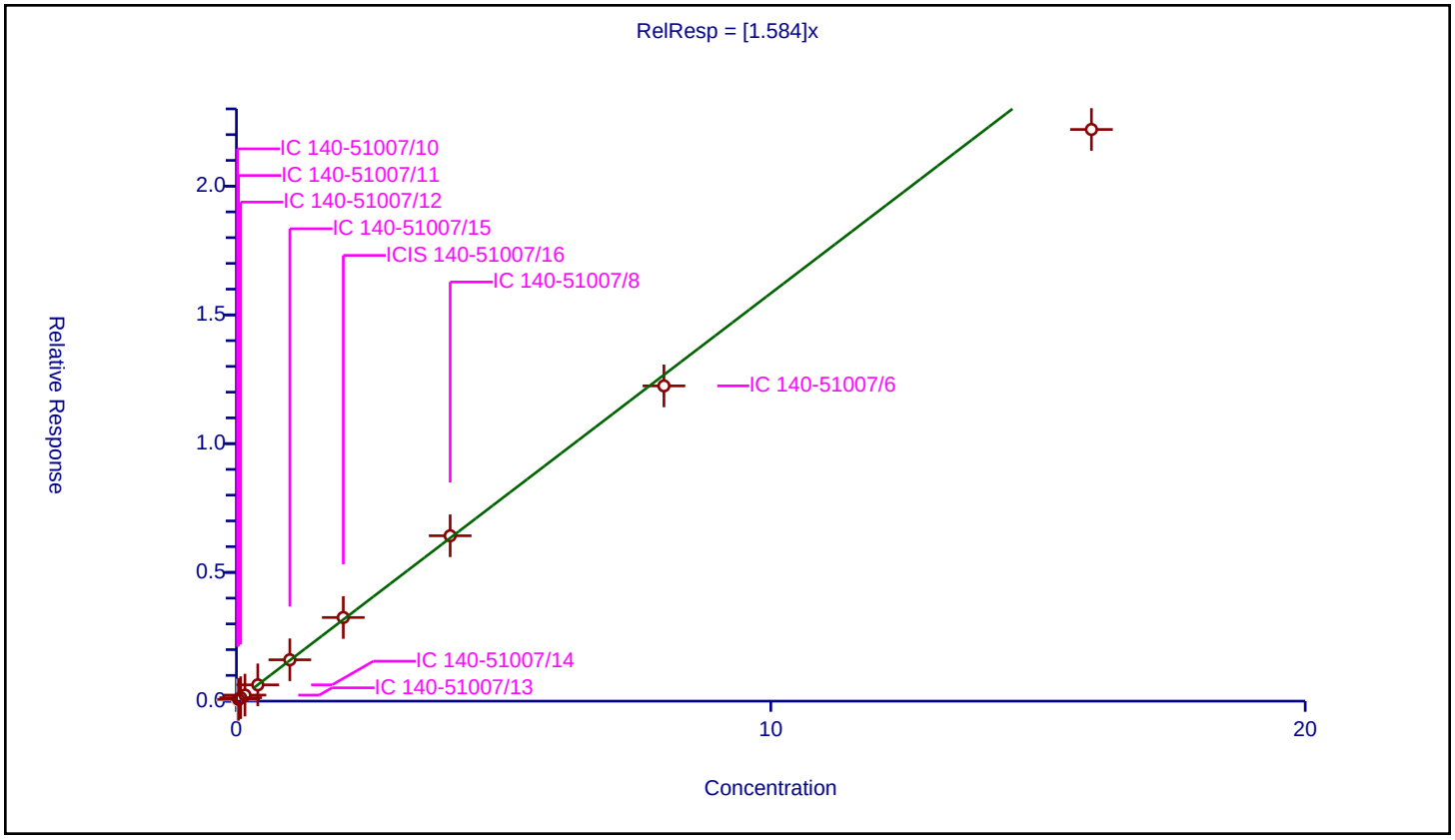
Curve Coefficients

Intercept:	0
Slope:	1.584

Error Coefficients

Standard Error:	3380000
Relative Standard Error:	7.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.043707	4.8	1590004.0	2.185353	N
2	IC 140-51007/11	0.04	0.071317	4.8	1526419.0	1.782918	Y
3	IC 140-51007/12	0.08	0.13346	4.8	1474349.0	1.668248	Y
4	IC 140-51007/13	0.16	0.235022	4.8	1449526.0	1.468887	Y
5	IC 140-51007/14	0.4	0.632608	4.8	1427682.0	1.58152	Y
6	IC 140-51007/15	1.0	1.60591	4.8	1438027.0	1.60591	Y
7	ICIS 140-51007/16	2.0	3.248406	4.8	1474901.0	1.624203	Y
8	IC 140-51007/8	4.0	6.422348	4.8	1696122.0	1.605587	Y
9	IC 140-51007/6	8.0	12.242927	4.8	1754996.0	1.530366	Y
10	IC 140-51007/4	16.0	22.200453	4.8	1741193.0	1.387528	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

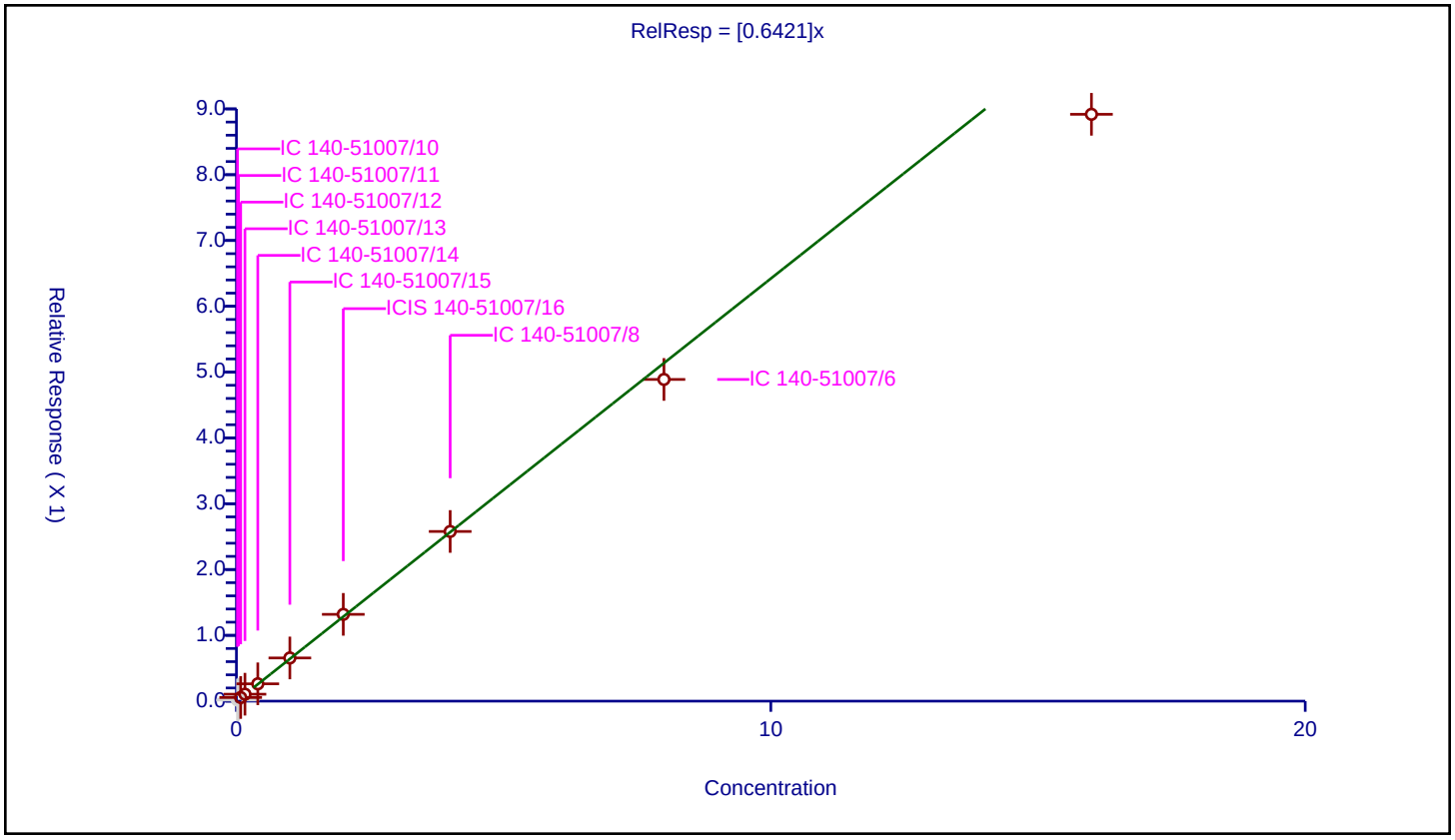
Curve Coefficients

Intercept:	0
Slope:	0.6421

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	6.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.01632	4.8	1590004.0	0.815998	N
2	IC 140-51007/11	0.04	0.028616	4.8	1526419.0	0.7154	N
3	IC 140-51007/12	0.08	0.055233	4.8	1474349.0	0.690406	Y
4	IC 140-51007/13	0.16	0.105591	4.8	1449526.0	0.659947	Y
5	IC 140-51007/14	0.4	0.263188	4.8	1427682.0	0.65797	Y
6	IC 140-51007/15	1.0	0.656249	4.8	1438027.0	0.656249	Y
7	ICIS 140-51007/16	2.0	1.318855	4.8	1474901.0	0.659428	Y
8	IC 140-51007/8	4.0	2.57838	4.8	1696122.0	0.644595	Y
9	IC 140-51007/6	8.0	4.888804	4.8	1754996.0	0.611101	Y
10	IC 140-51007/4	16.0	8.917957	4.8	1741193.0	0.557372	Y



Calibration / Alpha Methyl Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

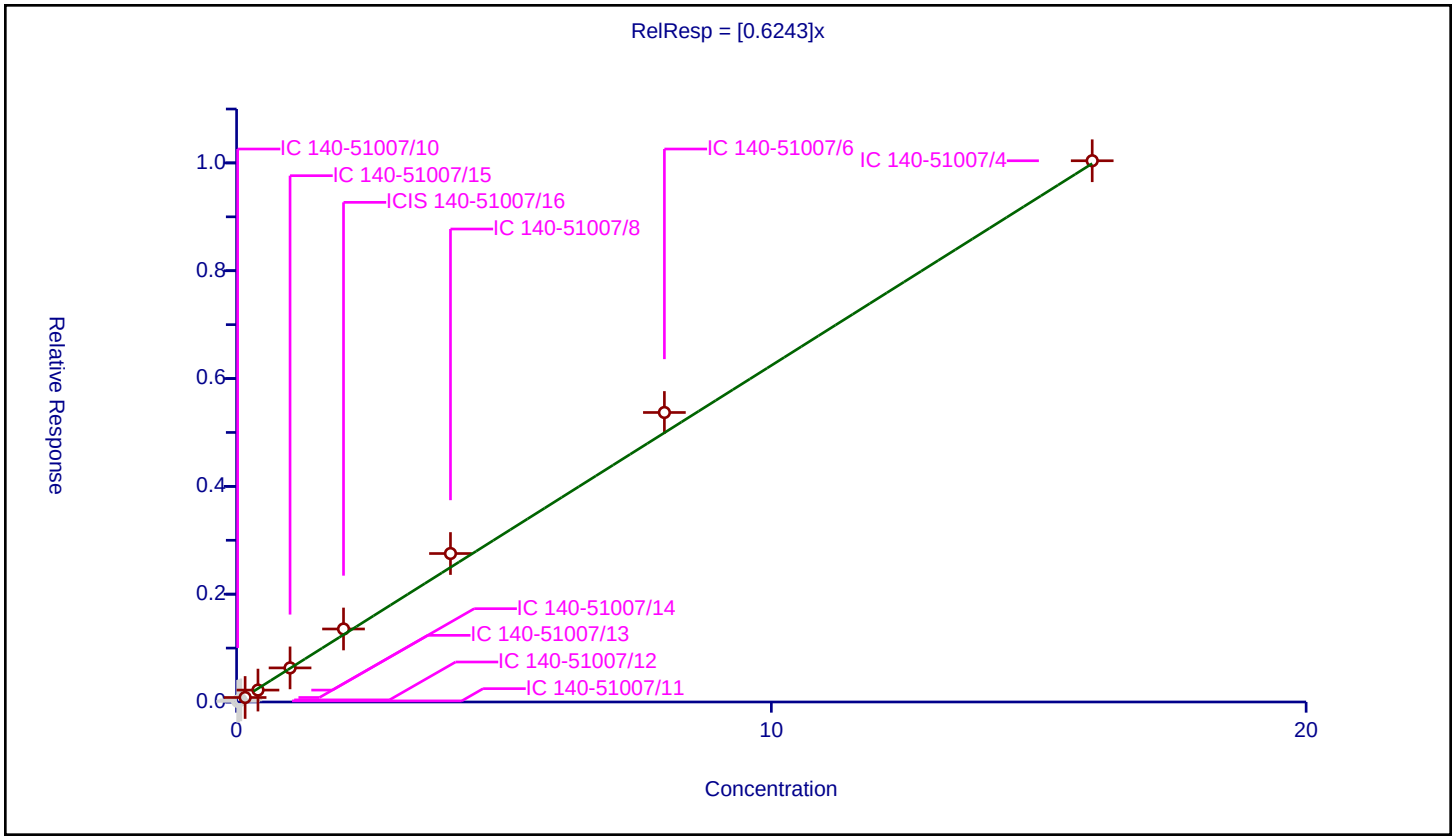
Curve Coefficients

Intercept:	0
Slope:	0.6243

Error Coefficients

Standard Error:	1750000
Relative Standard Error:	10.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.012945	4.8	1590004.0	0.647244	N
2	IC 140-51007/11	0.04	0.020405	4.8	1526419.0	0.510135	N
3	IC 140-51007/12	0.08	0.039504	4.8	1474349.0	0.493804	N
4	IC 140-51007/13	0.16	0.083246	4.8	1449526.0	0.520287	Y
5	IC 140-51007/14	0.4	0.221091	4.8	1427682.0	0.552728	Y
6	IC 140-51007/15	1.0	0.632437	4.8	1438027.0	0.632437	Y
7	ICIS 140-51007/16	2.0	1.35415	4.8	1474901.0	0.677075	Y
8	IC 140-51007/8	4.0	2.754204	4.8	1696122.0	0.688551	Y
9	IC 140-51007/6	8.0	5.370561	4.8	1754996.0	0.67132	Y
10	IC 140-51007/4	16.0	10.040123	4.8	1741193.0	0.627508	Y



Calibration / n-Decane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

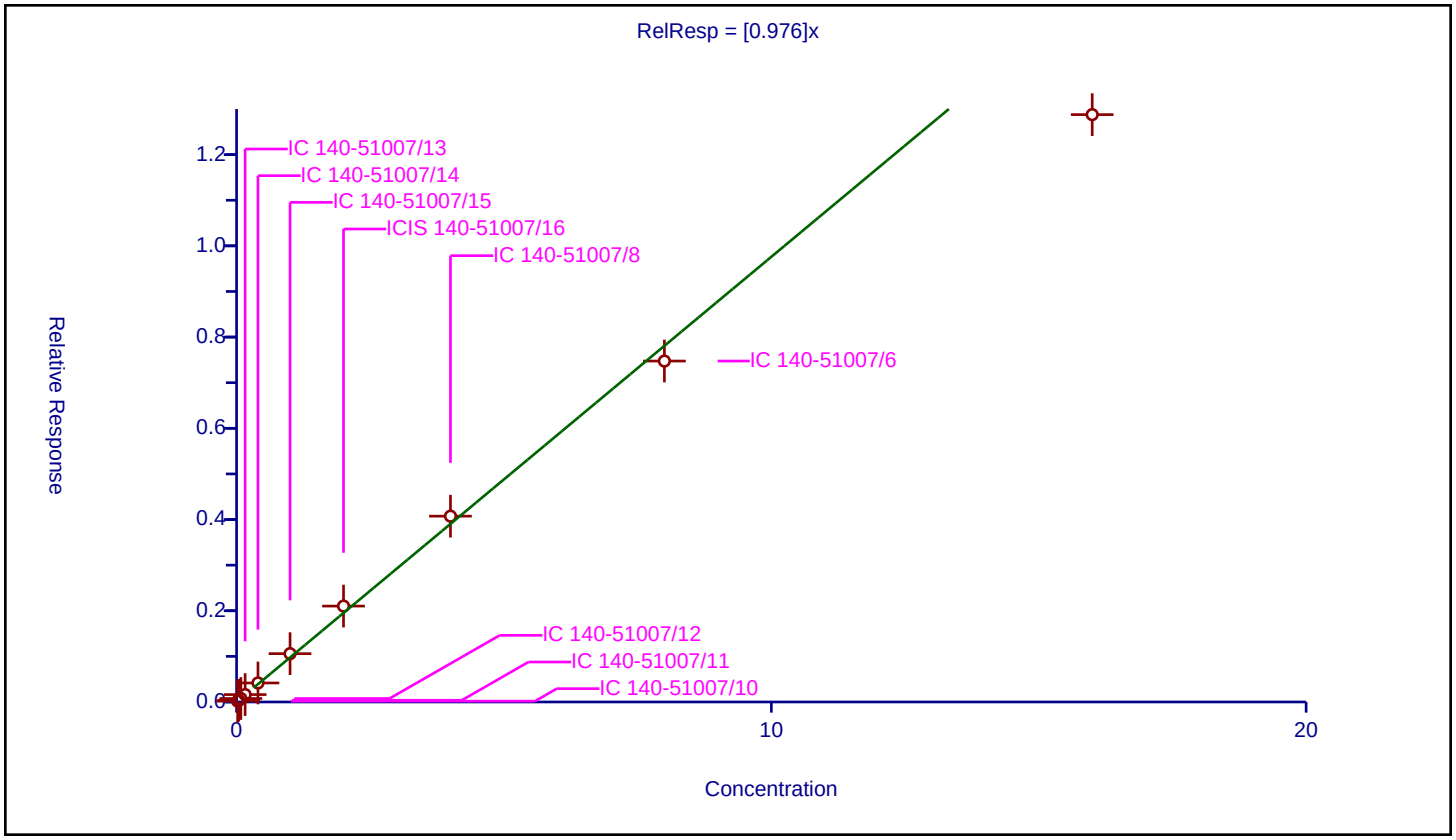
Curve Coefficients

Intercept:	0
Slope:	0.976

Error Coefficients

Standard Error:	1880000
Relative Standard Error:	8.0
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.018687	4.8	1590004.0	0.934337	Y
2	IC 140-51007/11	0.04	0.037827	4.8	1526419.0	0.945664	Y
3	IC 140-51007/12	0.08	0.07628	4.8	1474349.0	0.953506	Y
4	IC 140-51007/13	0.16	0.162373	4.8	1449526.0	1.014828	Y
5	IC 140-51007/14	0.4	0.417175	4.8	1427682.0	1.042938	Y
6	IC 140-51007/15	1.0	1.059762	4.8	1438027.0	1.059762	Y
7	ICIS 140-51007/16	2.0	2.102496	4.8	1474901.0	1.051248	Y
8	IC 140-51007/8	4.0	4.073687	4.8	1696122.0	1.018422	Y
9	IC 140-51007/6	8.0	7.474536	4.8	1754996.0	0.934317	Y
10	IC 140-51007/4	16.0	12.877028	4.8	1741193.0	0.804814	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

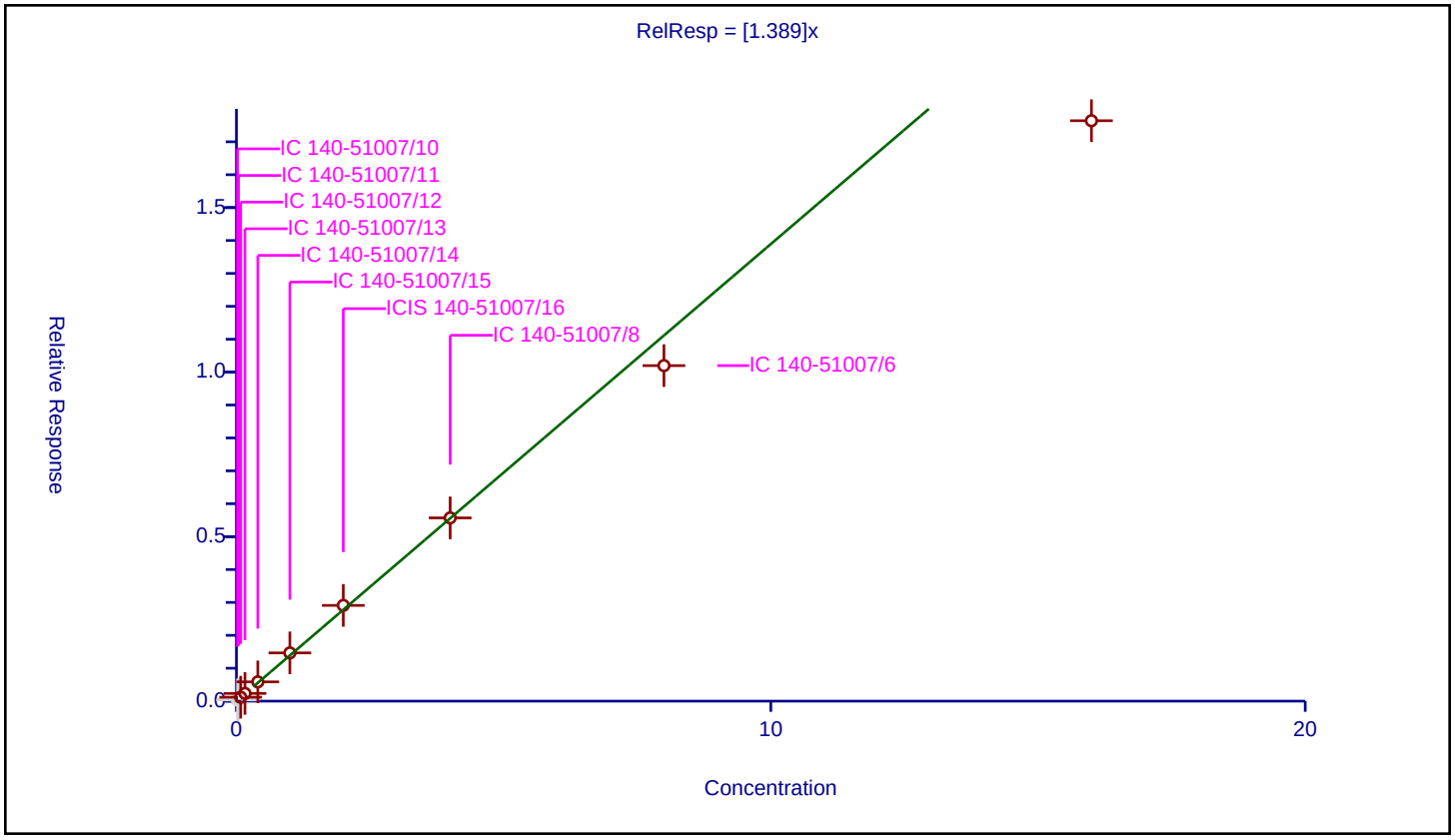
Curve Coefficients

Intercept:	0
Slope:	1.389

Error Coefficients

Standard Error:	2920000
Relative Standard Error:	9.7
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.034989	4.8	1590004.0	1.74943	N
2	IC 140-51007/11	0.04	0.060977	4.8	1526419.0	1.524431	N
3	IC 140-51007/12	0.08	0.119477	4.8	1474349.0	1.493459	Y
4	IC 140-51007/13	0.16	0.234343	4.8	1449526.0	1.464644	Y
5	IC 140-51007/14	0.4	0.585946	4.8	1427682.0	1.464864	Y
6	IC 140-51007/15	1.0	1.466352	4.8	1438027.0	1.466352	Y
7	ICIS 140-51007/16	2.0	2.90988	4.8	1474901.0	1.45494	Y
8	IC 140-51007/8	4.0	5.569374	4.8	1696122.0	1.392343	Y
9	IC 140-51007/6	8.0	10.197321	4.8	1754996.0	1.274665	Y
10	IC 140-51007/4	16.0	17.640275	4.8	1741193.0	1.102517	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

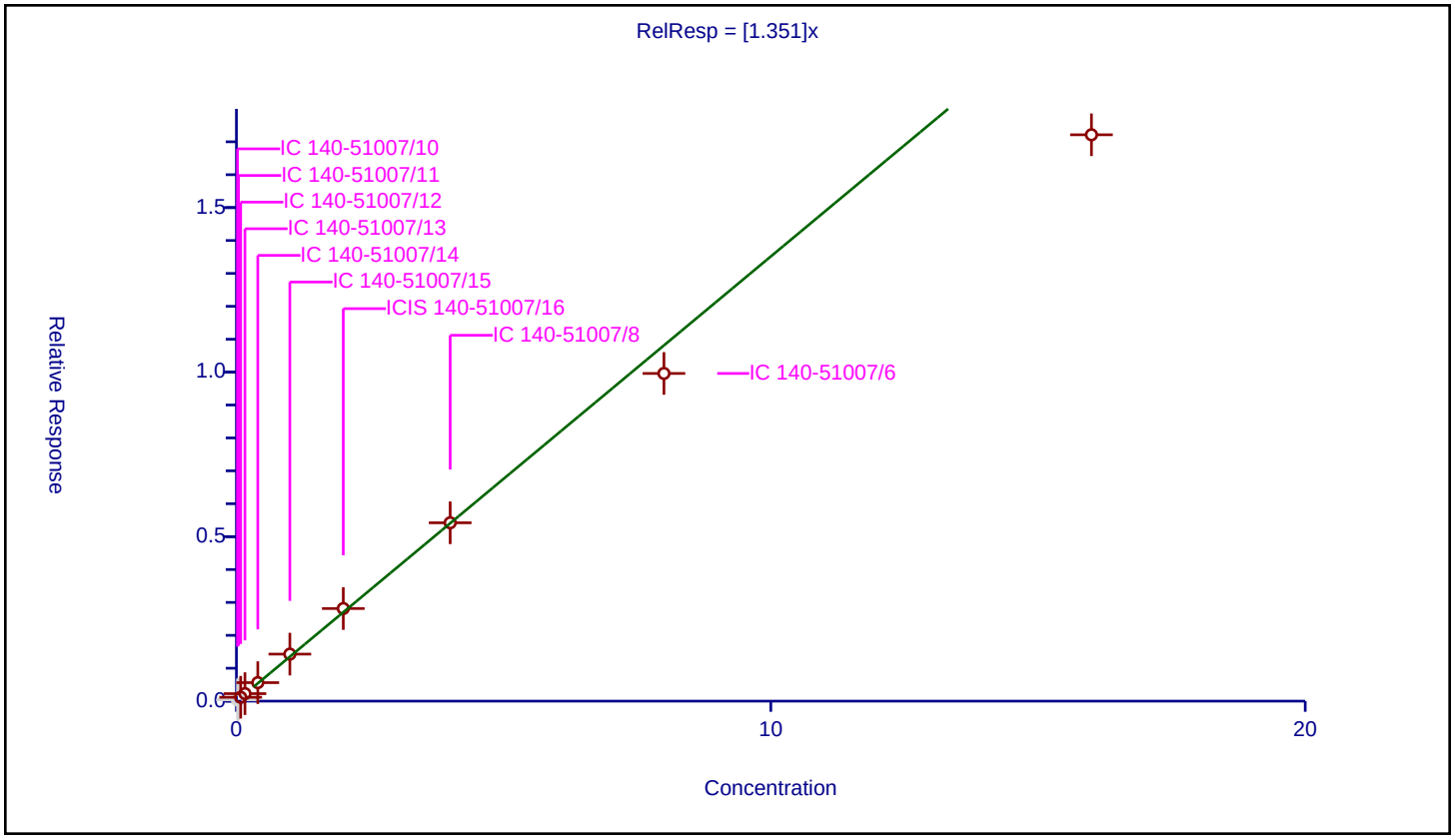
Curve Coefficients

Intercept:	0
Slope:	1.351

Error Coefficients

Standard Error:	2850000
Relative Standard Error:	9.6
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.037669	4.8	1590004.0	1.883467	N
2	IC 140-51007/11	0.04	0.062817	4.8	1526419.0	1.570421	N
3	IC 140-51007/12	0.08	0.117569	4.8	1474349.0	1.469611	Y
4	IC 140-51007/13	0.16	0.227816	4.8	1449526.0	1.423852	Y
5	IC 140-51007/14	0.4	0.562478	4.8	1427682.0	1.406195	Y
6	IC 140-51007/15	1.0	1.429008	4.8	1438027.0	1.429008	Y
7	ICIS 140-51007/16	2.0	2.814717	4.8	1474901.0	1.407358	Y
8	IC 140-51007/8	4.0	5.420616	4.8	1696122.0	1.355154	Y
9	IC 140-51007/6	8.0	9.959503	4.8	1754996.0	1.244938	Y
10	IC 140-51007/4	16.0	17.213566	4.8	1741193.0	1.075848	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

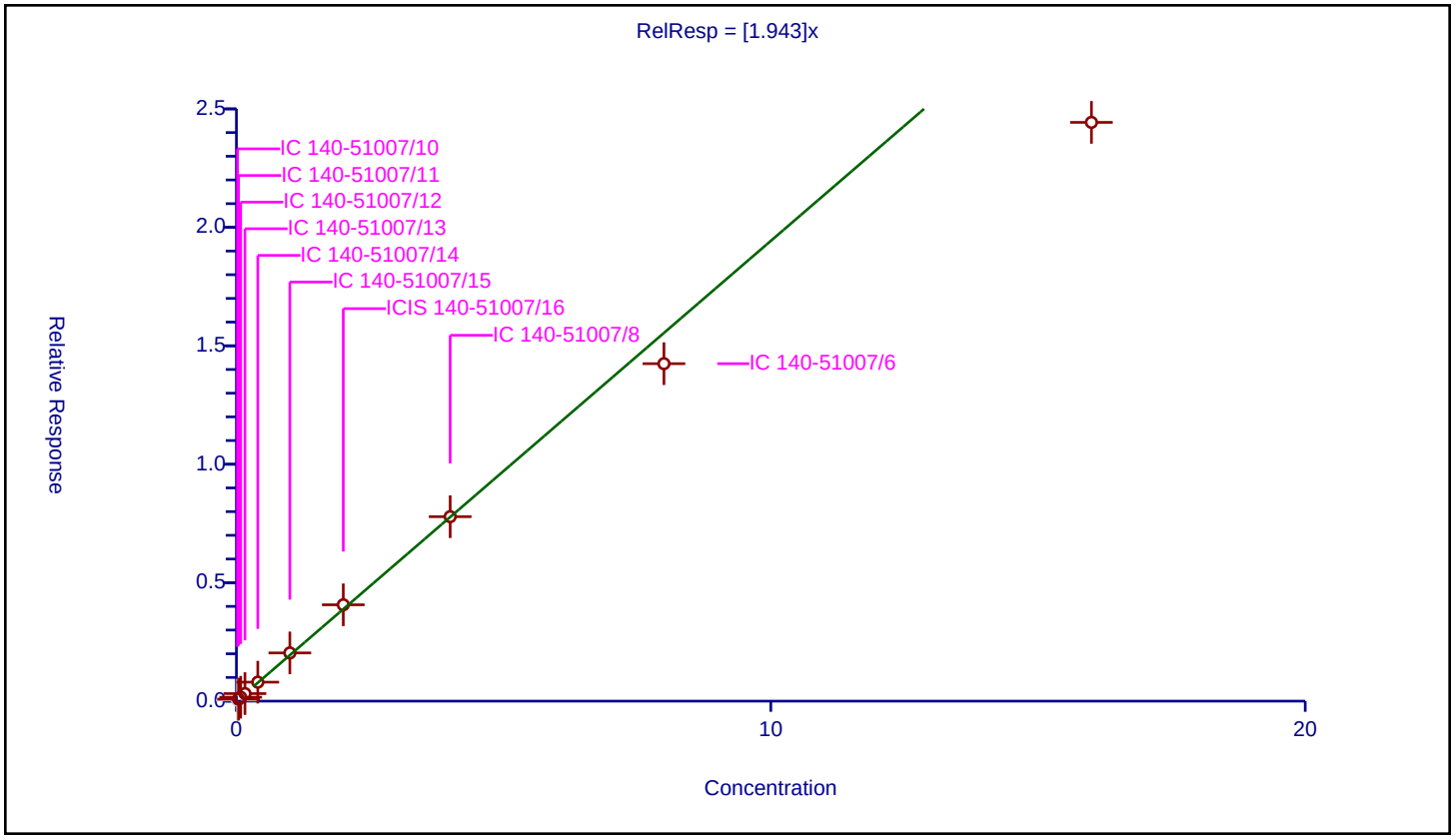
Curve Coefficients

Intercept:	0
Slope:	1.943

Error Coefficients

Standard Error:	3800000
Relative Standard Error:	9.3
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.047861	4.8	1590004.0	2.393051	N
2	IC 140-51007/11	0.04	0.084367	4.8	1526419.0	2.109172	Y
3	IC 140-51007/12	0.08	0.164724	4.8	1474349.0	2.059051	Y
4	IC 140-51007/13	0.16	0.318708	4.8	1449526.0	1.991927	Y
5	IC 140-51007/14	0.4	0.801086	4.8	1427682.0	2.002715	Y
6	IC 140-51007/15	1.0	2.035222	4.8	1438027.0	2.035222	Y
7	ICIS 140-51007/16	2.0	4.066654	4.8	1474901.0	2.033327	Y
8	IC 140-51007/8	4.0	7.786458	4.8	1696122.0	1.946614	Y
9	IC 140-51007/6	8.0	14.244737	4.8	1754996.0	1.780592	Y
10	IC 140-51007/4	16.0	24.431412	4.8	1741193.0	1.526963	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

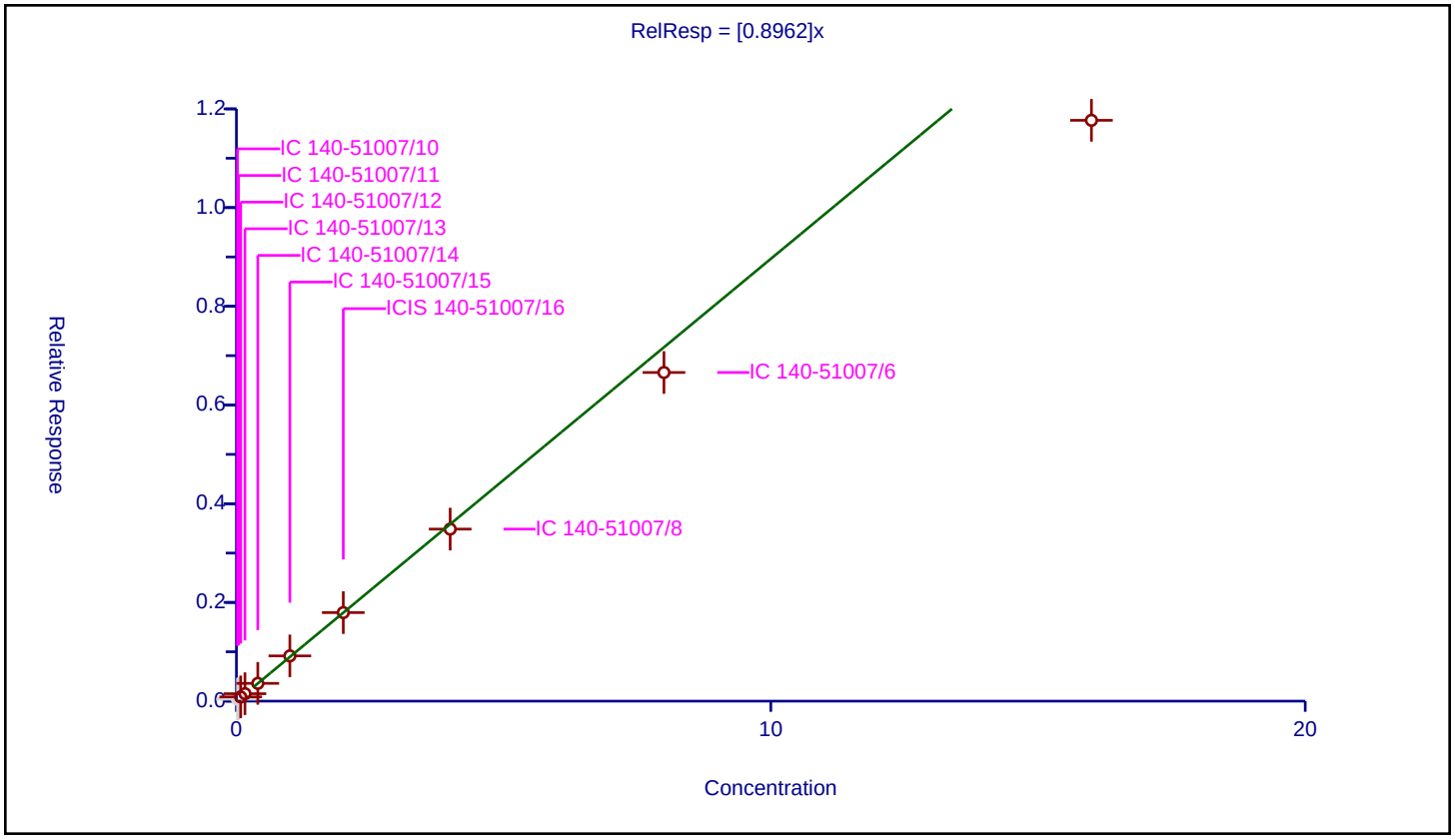
Curve Coefficients

Intercept:	0
Slope:	0.8962

Error Coefficients

Standard Error:	1930000
Relative Standard Error:	10.7
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.039903	4.8	1590004.0	1.995165	N
2	IC 140-51007/11	0.04	0.054031	4.8	1526419.0	1.350769	N
3	IC 140-51007/12	0.08	0.085894	4.8	1474349.0	1.073681	Y
4	IC 140-51007/13	0.16	0.150739	4.8	1449526.0	0.942122	Y
5	IC 140-51007/14	0.4	0.360366	4.8	1427682.0	0.900915	Y
6	IC 140-51007/15	1.0	0.916479	4.8	1438027.0	0.916479	Y
7	ICIS 140-51007/16	2.0	1.794058	4.8	1474901.0	0.897029	Y
8	IC 140-51007/8	4.0	3.485848	4.8	1696122.0	0.871462	Y
9	IC 140-51007/6	8.0	6.659067	4.8	1754996.0	0.832383	Y
10	IC 140-51007/4	16.0	11.76834	4.8	1741193.0	0.735521	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

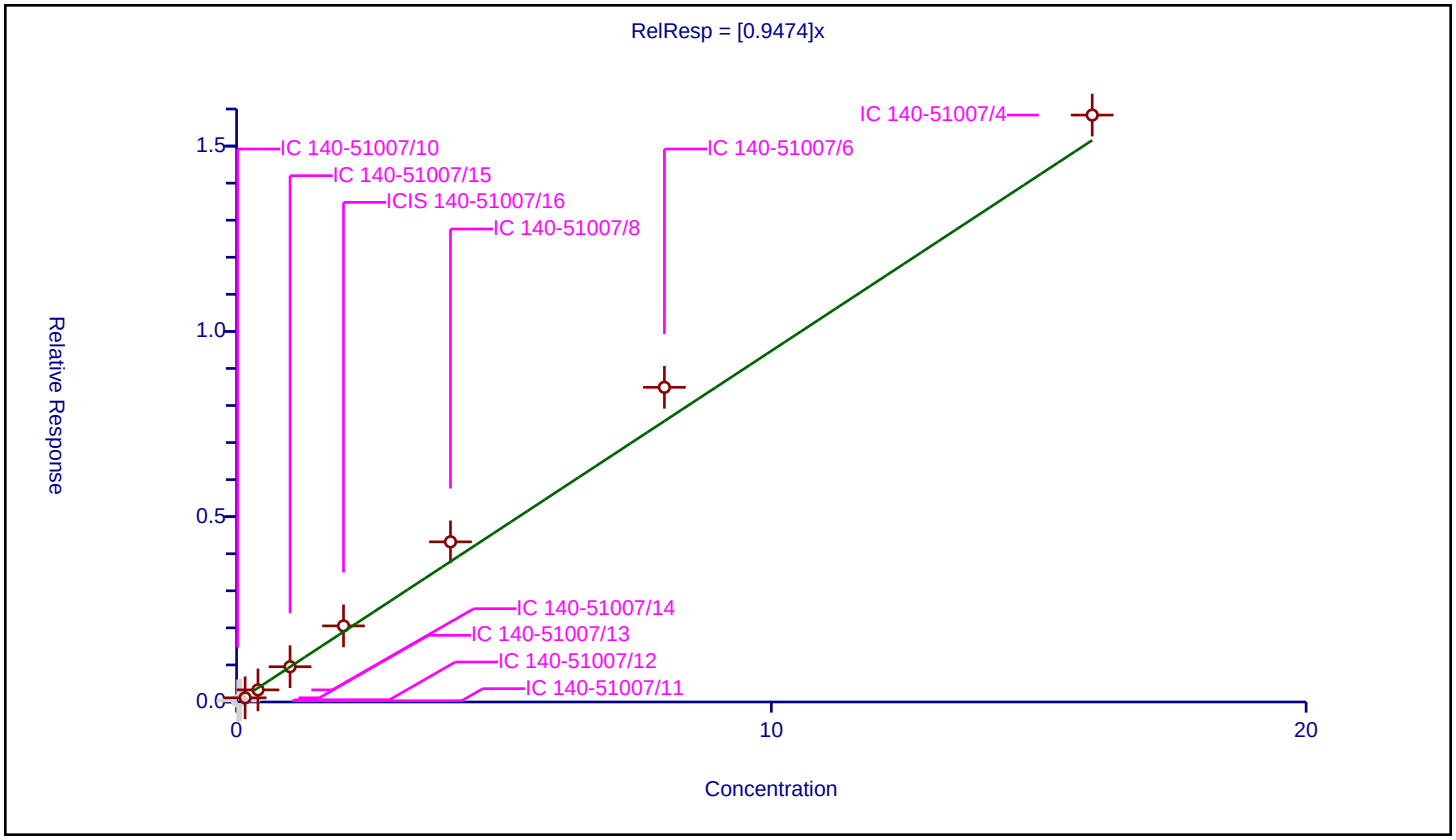
Curve Coefficients

Intercept:	0
Slope:	0.9474

Error Coefficients

Standard Error:	2750000
Relative Standard Error:	14.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.029473	4.8	1590004.0	1.473657	N
2	IC 140-51007/11	0.04	0.034481	4.8	1526419.0	0.862018	N
3	IC 140-51007/12	0.08	0.060744	4.8	1474349.0	0.759305	N
4	IC 140-51007/13	0.16	0.112612	4.8	1449526.0	0.703823	Y
5	IC 140-51007/14	0.4	0.327249	4.8	1427682.0	0.818123	Y
6	IC 140-51007/15	1.0	0.951484	4.8	1438027.0	0.951484	Y
7	ICIS 140-51007/16	2.0	2.053392	4.8	1474901.0	1.026696	Y
8	IC 140-51007/8	4.0	4.321045	4.8	1696122.0	1.080261	Y
9	IC 140-51007/6	8.0	8.490809	4.8	1754996.0	1.061351	Y
10	IC 140-51007/4	16.0	15.836494	4.8	1741193.0	0.989781	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

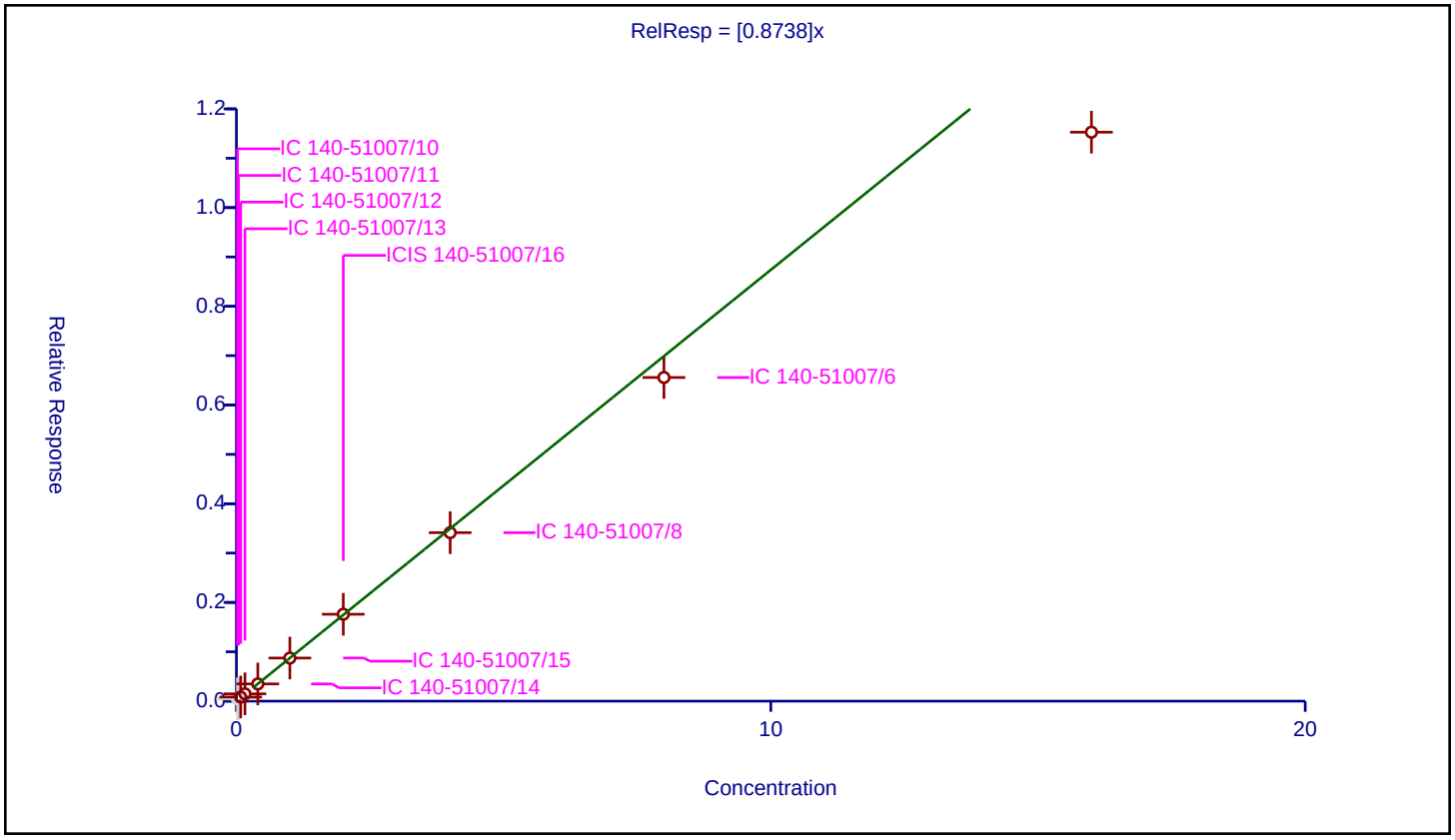
Curve Coefficients

Intercept:	0
Slope:	0.8738

Error Coefficients

Standard Error:	1890000
Relative Standard Error:	10.5
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.044383	4.8	1590004.0	2.219164	N
2	IC 140-51007/11	0.04	0.05266	4.8	1526419.0	1.316493	N
3	IC 140-51007/12	0.08	0.083629	4.8	1474349.0	1.045356	Y
4	IC 140-51007/13	0.16	0.148137	4.8	1449526.0	0.925854	Y
5	IC 140-51007/14	0.4	0.348794	4.8	1427682.0	0.871984	Y
6	IC 140-51007/15	1.0	0.87359	4.8	1438027.0	0.87359	Y
7	ICIS 140-51007/16	2.0	1.760573	4.8	1474901.0	0.880286	Y
8	IC 140-51007/8	4.0	3.413672	4.8	1696122.0	0.853418	Y
9	IC 140-51007/6	8.0	6.557326	4.8	1754996.0	0.819666	Y
10	IC 140-51007/4	16.0	11.527928	4.8	1741193.0	0.720495	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

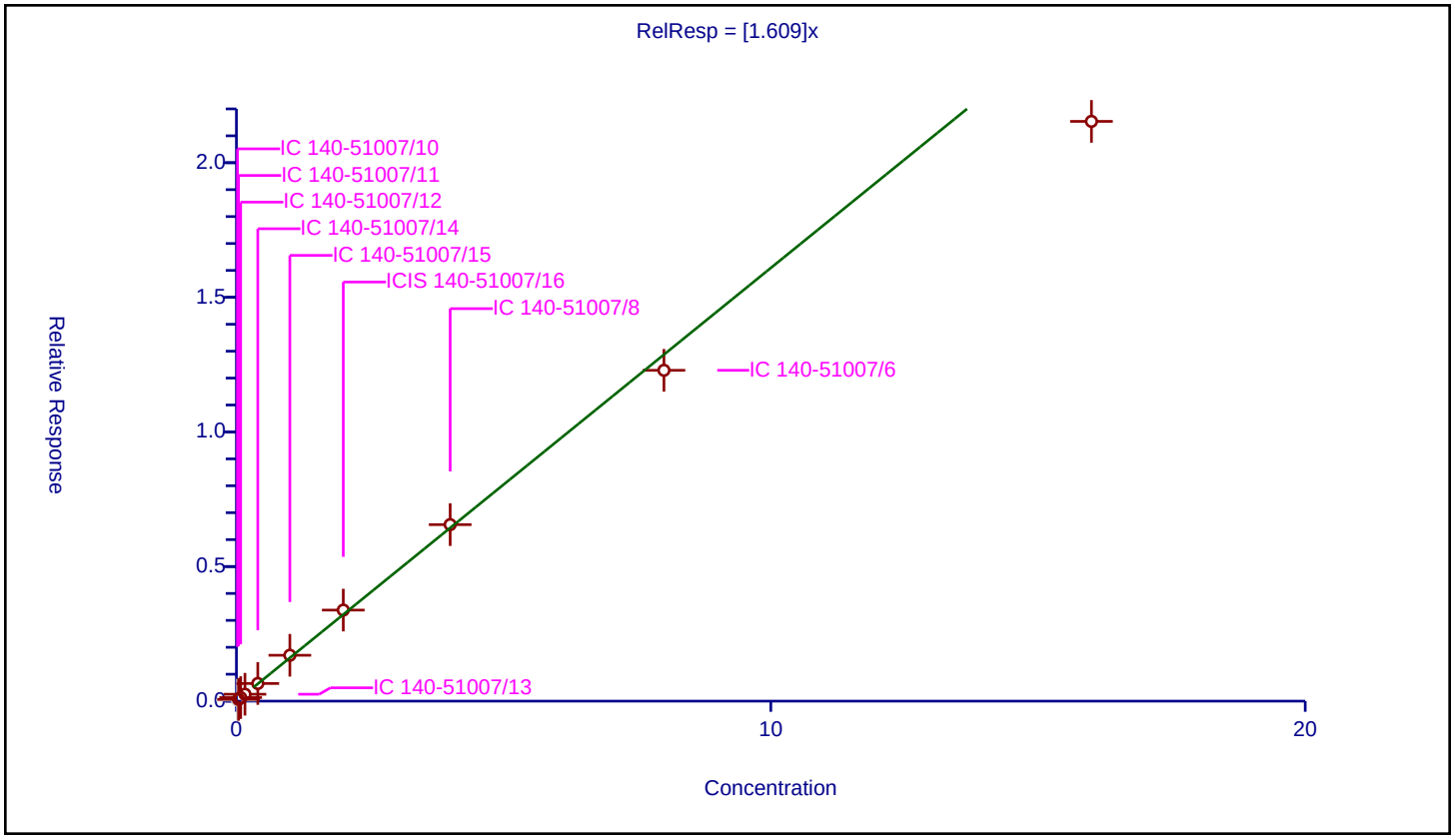
Curve Coefficients

Intercept:	0
Slope:	1.609

Error Coefficients

Standard Error:	3320000
Relative Standard Error:	6.9
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.038506	4.8	1590004.0	1.925278	N
2	IC 140-51007/11	0.04	0.066999	4.8	1526419.0	1.674979	Y
3	IC 140-51007/12	0.08	0.131796	4.8	1474349.0	1.647453	Y
4	IC 140-51007/13	0.16	0.256569	4.8	1449526.0	1.603559	Y
5	IC 140-51007/14	0.4	0.655591	4.8	1427682.0	1.638978	Y
6	IC 140-51007/15	1.0	1.704656	4.8	1438027.0	1.704656	Y
7	ICIS 140-51007/16	2.0	3.381881	4.8	1474901.0	1.69094	Y
8	IC 140-51007/8	4.0	6.557409	4.8	1696122.0	1.639352	Y
9	IC 140-51007/6	8.0	12.289499	4.8	1754996.0	1.536187	Y
10	IC 140-51007/4	16.0	21.536211	4.8	1741193.0	1.346013	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

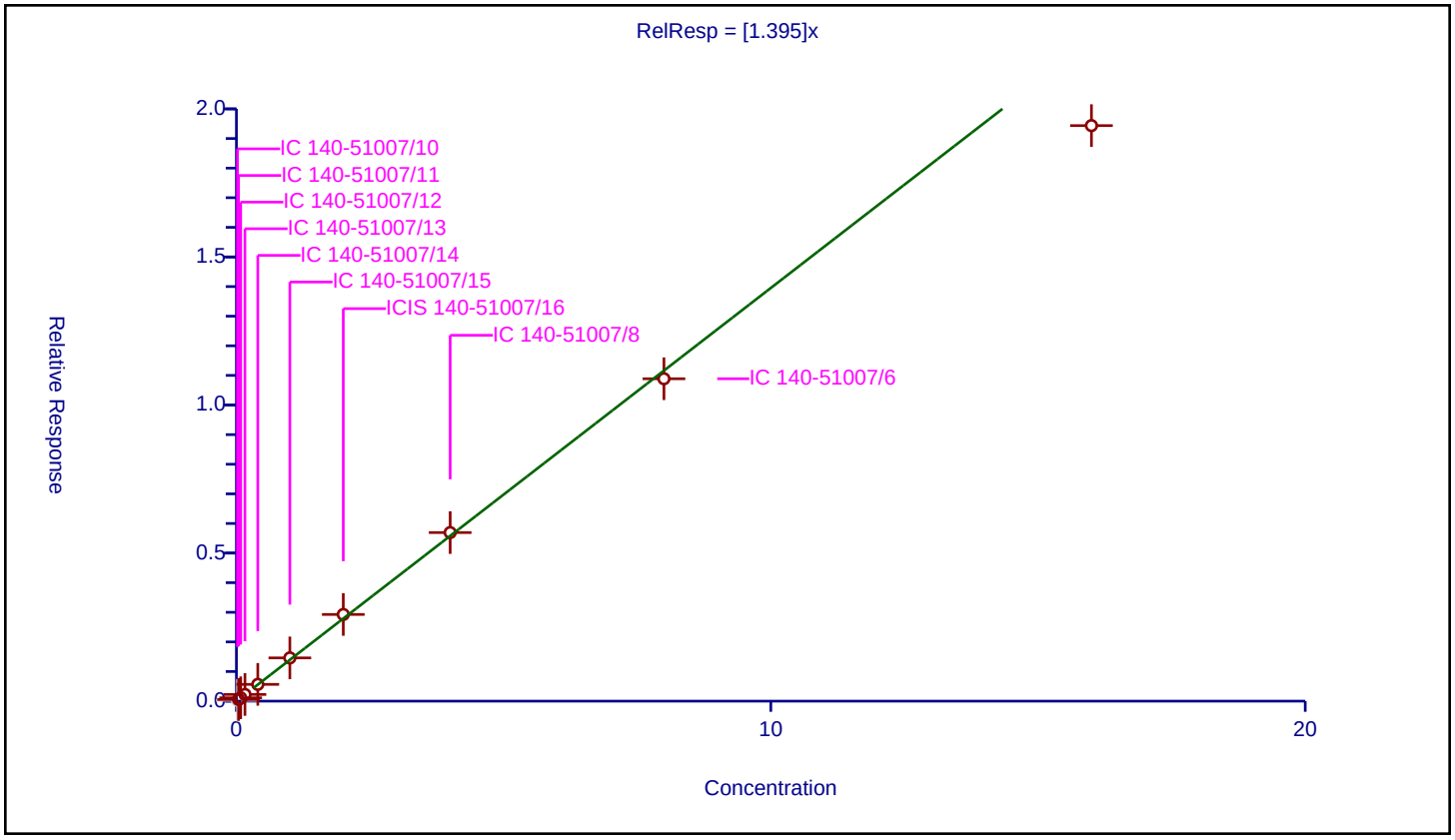
Curve Coefficients

Intercept:	0
Slope:	1.395

Error Coefficients

Standard Error:	2970000
Relative Standard Error:	5.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.02954	4.8	1590004.0	1.476977	N
2	IC 140-51007/11	0.04	0.056175	4.8	1526419.0	1.404385	Y
3	IC 140-51007/12	0.08	0.112624	4.8	1474349.0	1.407794	Y
4	IC 140-51007/13	0.16	0.225161	4.8	1449526.0	1.407253	Y
5	IC 140-51007/14	0.4	0.566193	4.8	1427682.0	1.415483	Y
6	IC 140-51007/15	1.0	1.45978	4.8	1438027.0	1.45978	Y
7	ICIS 140-51007/16	2.0	2.927093	4.8	1474901.0	1.463547	Y
8	IC 140-51007/8	4.0	5.692685	4.8	1696122.0	1.423171	Y
9	IC 140-51007/6	8.0	10.887404	4.8	1754996.0	1.360925	Y
10	IC 140-51007/4	16.0	19.434884	4.8	1741193.0	1.21468	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

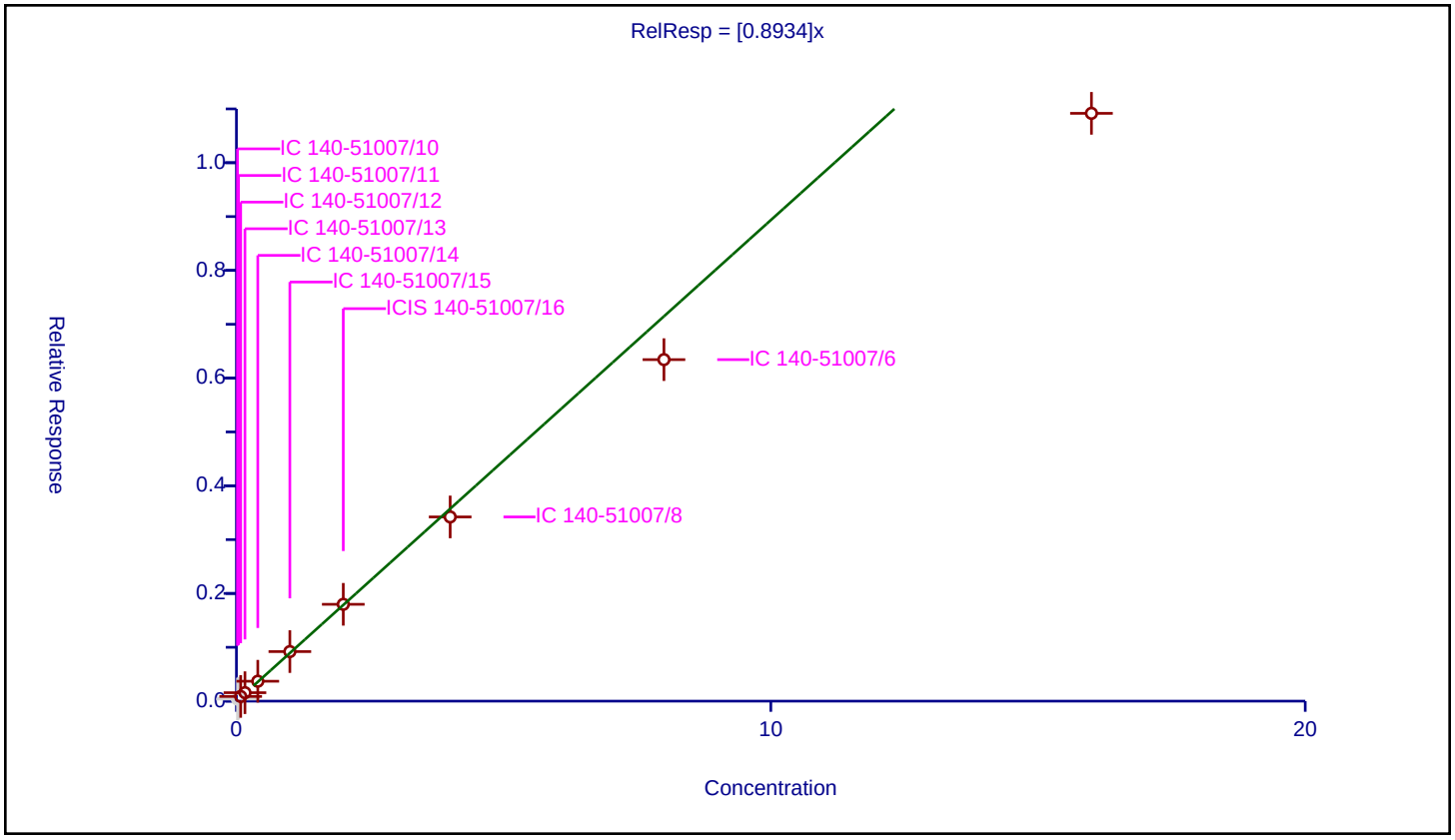
Curve Coefficients

Intercept:	0
Slope:	0.8934

Error Coefficients

Standard Error:	1810000
Relative Standard Error:	13.7
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.038382	4.8	1590004.0	1.91909	N
2	IC 140-51007/11	0.04	0.053094	4.8	1526419.0	1.327342	N
3	IC 140-51007/12	0.08	0.087122	4.8	1474349.0	1.089023	Y
4	IC 140-51007/13	0.16	0.15723	4.8	1449526.0	0.982687	Y
5	IC 140-51007/14	0.4	0.370008	4.8	1427682.0	0.925021	Y
6	IC 140-51007/15	1.0	0.920595	4.8	1438027.0	0.920595	Y
7	ICIS 140-51007/16	2.0	1.798396	4.8	1474901.0	0.899198	Y
8	IC 140-51007/8	4.0	3.42126	4.8	1696122.0	0.855315	Y
9	IC 140-51007/6	8.0	6.343303	4.8	1754996.0	0.792913	Y
10	IC 140-51007/4	16.0	10.917436	4.8	1741193.0	0.68234	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

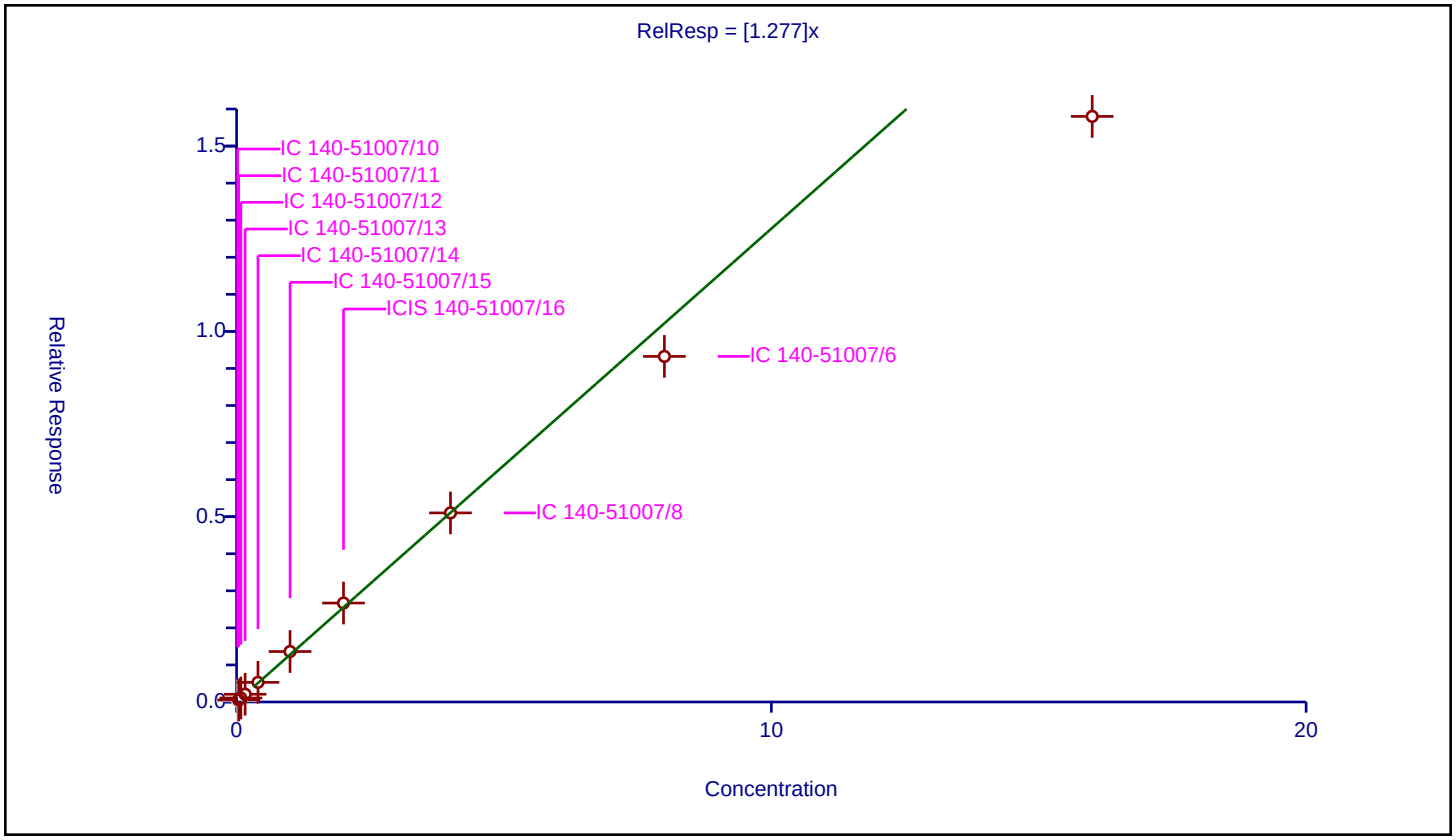
Curve Coefficients

Intercept:	0
Slope:	1.277

Error Coefficients

Standard Error:	2460000
Relative Standard Error:	9.9
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.033002	4.8	1590004.0	1.650109	N
2	IC 140-51007/11	0.04	0.055653	4.8	1526419.0	1.391335	Y
3	IC 140-51007/12	0.08	0.107841	4.8	1474349.0	1.348012	Y
4	IC 140-51007/13	0.16	0.208719	4.8	1449526.0	1.304495	Y
5	IC 140-51007/14	0.4	0.530024	4.8	1427682.0	1.32506	Y
6	IC 140-51007/15	1.0	1.361696	4.8	1438027.0	1.361696	Y
7	ICIS 140-51007/16	2.0	2.669998	4.8	1474901.0	1.334999	Y
8	IC 140-51007/8	4.0	5.10201	4.8	1696122.0	1.275503	Y
9	IC 140-51007/6	8.0	9.32481	4.8	1754996.0	1.165601	Y
10	IC 140-51007/4	16.0	15.800361	4.8	1741193.0	0.987523	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

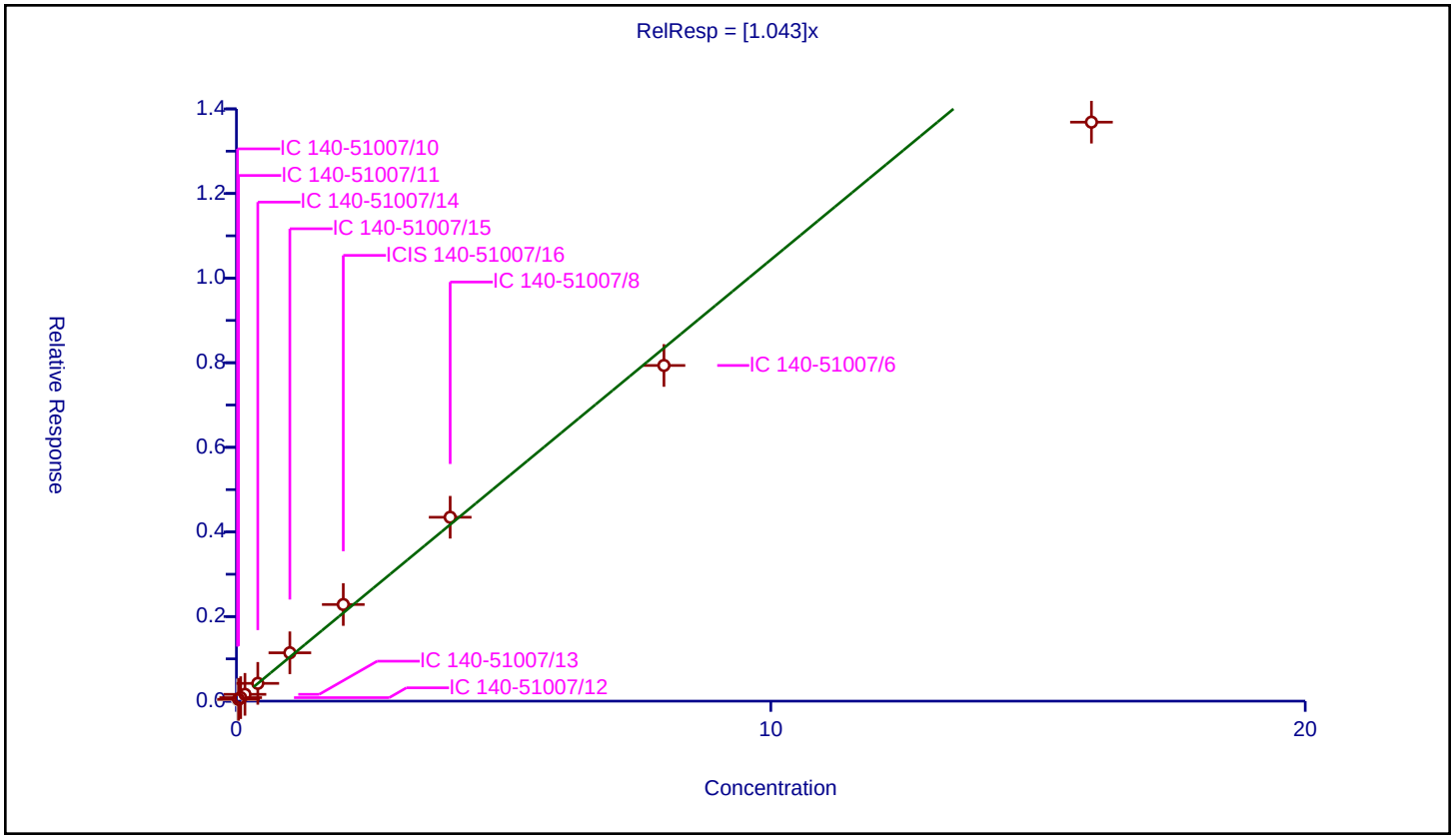
Curve Coefficients

Intercept:	0
Slope:	1.043

Error Coefficients

Standard Error:	2120000
Relative Standard Error:	8.5
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.029256	4.8	1590004.0	1.462789	N
2	IC 140-51007/11	0.04	0.043066	4.8	1526419.0	1.076638	Y
3	IC 140-51007/12	0.08	0.082971	4.8	1474349.0	1.037136	Y
4	IC 140-51007/13	0.16	0.160919	4.8	1449526.0	1.005743	Y
5	IC 140-51007/14	0.4	0.420457	4.8	1427682.0	1.051142	Y
6	IC 140-51007/15	1.0	1.143193	4.8	1438027.0	1.143193	Y
7	ICIS 140-51007/16	2.0	2.284677	4.8	1474901.0	1.142338	Y
8	IC 140-51007/8	4.0	4.346996	4.8	1696122.0	1.086749	Y
9	IC 140-51007/6	8.0	7.935299	4.8	1754996.0	0.991912	Y
10	IC 140-51007/4	16.0	13.686511	4.8	1741193.0	0.855407	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

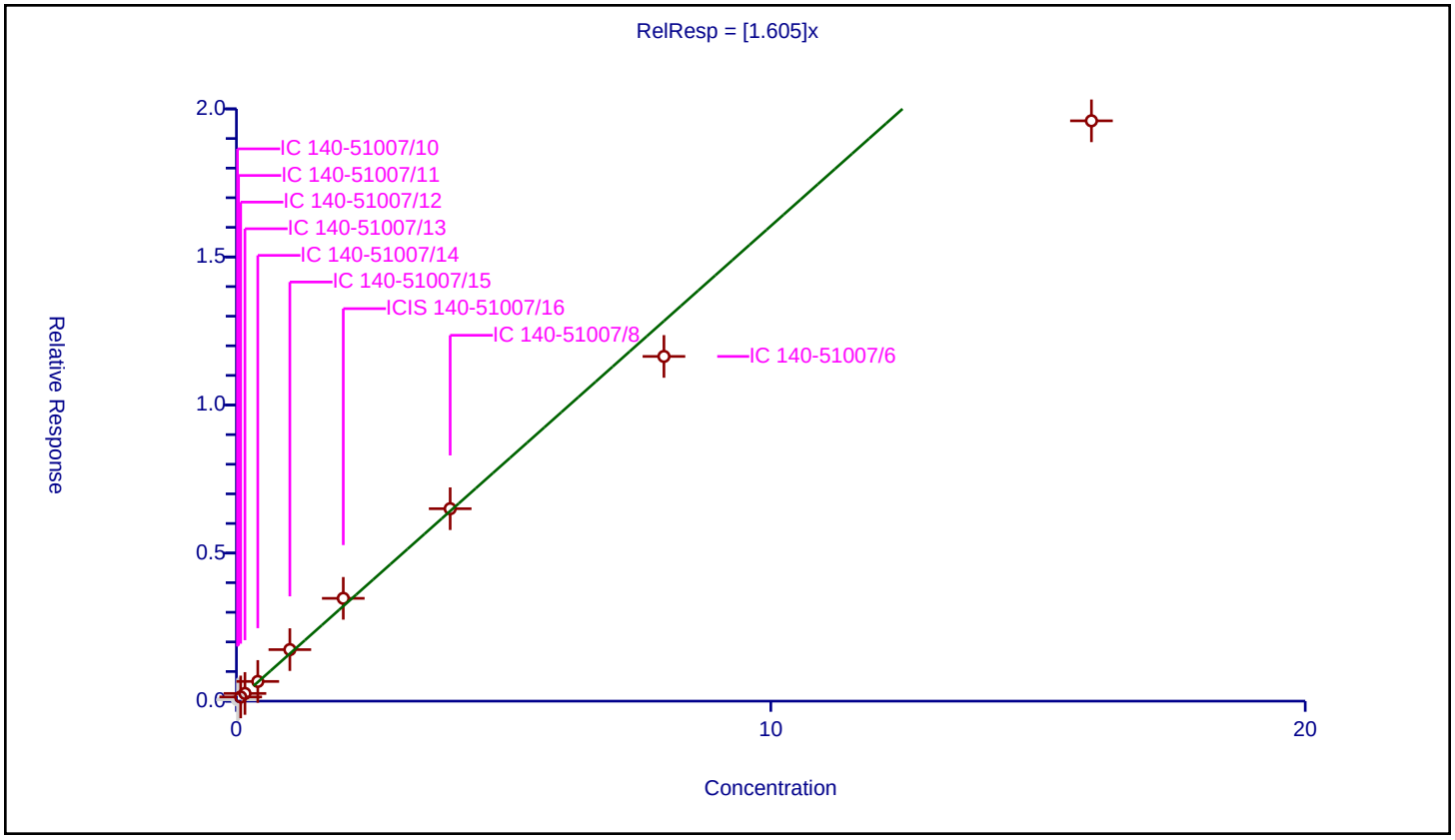
Curve Coefficients

Intercept:	0
Slope:	1.605

Error Coefficients

Standard Error:	3280000
Relative Standard Error:	11.4
Correlation Coefficient:	0.989
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.04579	4.8	1590004.0	2.289504	N
2	IC 140-51007/11	0.04	0.07581	4.8	1526419.0	1.895259	N
3	IC 140-51007/12	0.08	0.141755	4.8	1474349.0	1.771941	Y
4	IC 140-51007/13	0.16	0.259301	4.8	1449526.0	1.620633	Y
5	IC 140-51007/14	0.4	0.665281	4.8	1427682.0	1.663202	Y
6	IC 140-51007/15	1.0	1.740251	4.8	1438027.0	1.740251	Y
7	ICIS 140-51007/16	2.0	3.471577	4.8	1474901.0	1.735788	Y
8	IC 140-51007/8	4.0	6.498461	4.8	1696122.0	1.624615	Y
9	IC 140-51007/6	8.0	11.640749	4.8	1754996.0	1.455094	Y
10	IC 140-51007/4	16.0	19.596787	4.8	1741193.0	1.224799	Y



Calibration / Undecane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

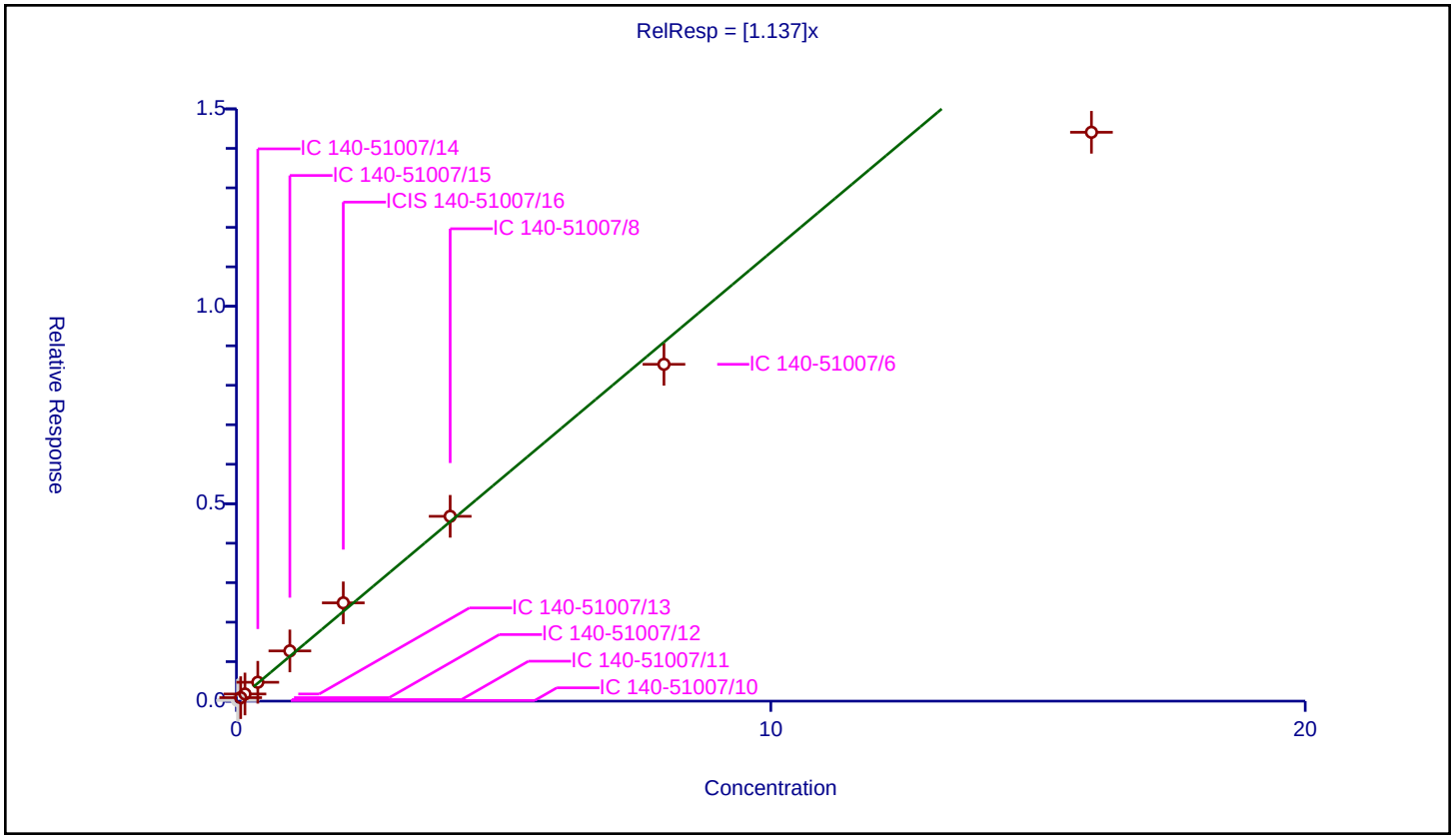
Curve Coefficients

Intercept:	0
Slope:	1.137

Error Coefficients

Standard Error:	2410000
Relative Standard Error:	10.3
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.016341	4.8	1590004.0	0.817055	N
2	IC 140-51007/11	0.04	0.039584	4.8	1526419.0	0.98961	N
3	IC 140-51007/12	0.08	0.08888	4.8	1474349.0	1.110999	Y
4	IC 140-51007/13	0.16	0.181251	4.8	1449526.0	1.132819	Y
5	IC 140-51007/14	0.4	0.477922	4.8	1427682.0	1.194804	Y
6	IC 140-51007/15	1.0	1.272026	4.8	1438027.0	1.272026	Y
7	ICIS 140-51007/16	2.0	2.48918	4.8	1474901.0	1.24459	Y
8	IC 140-51007/8	4.0	4.681356	4.8	1696122.0	1.170339	Y
9	IC 140-51007/6	8.0	8.530724	4.8	1754996.0	1.066341	Y
10	IC 140-51007/4	16.0	14.407898	4.8	1741193.0	0.900494	Y



Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

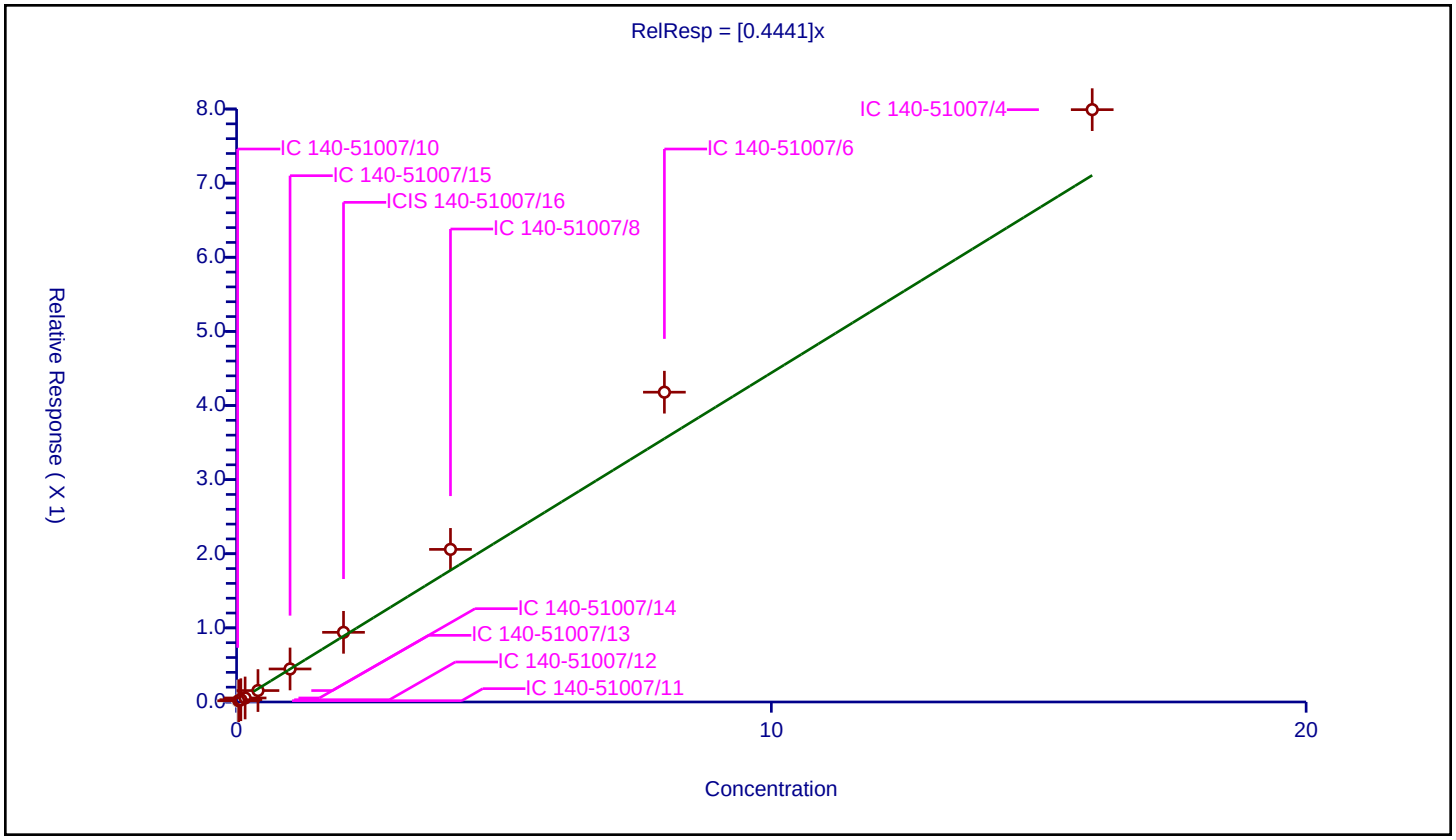
Curve Coefficients

Intercept:	0
Slope:	0.4441

Error Coefficients

Standard Error:	1190000
Relative Standard Error:	14.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.012148	4.8	1590004.0	0.607395	N
2	IC 140-51007/11	0.04	0.017465	4.8	1526419.0	0.43663	Y
3	IC 140-51007/12	0.08	0.030672	4.8	1474349.0	0.383396	Y
4	IC 140-51007/13	0.16	0.054271	4.8	1449526.0	0.339194	Y
5	IC 140-51007/14	0.4	0.154266	4.8	1427682.0	0.385666	Y
6	IC 140-51007/15	1.0	0.445467	4.8	1438027.0	0.445467	Y
7	ICIS 140-51007/16	2.0	0.939864	4.8	1474901.0	0.469932	Y
8	IC 140-51007/8	4.0	2.05891	4.8	1696122.0	0.514728	Y
9	IC 140-51007/6	8.0	4.179508	4.8	1754996.0	0.522438	Y
10	IC 140-51007/4	16.0	7.991409	4.8	1741193.0	0.499463	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

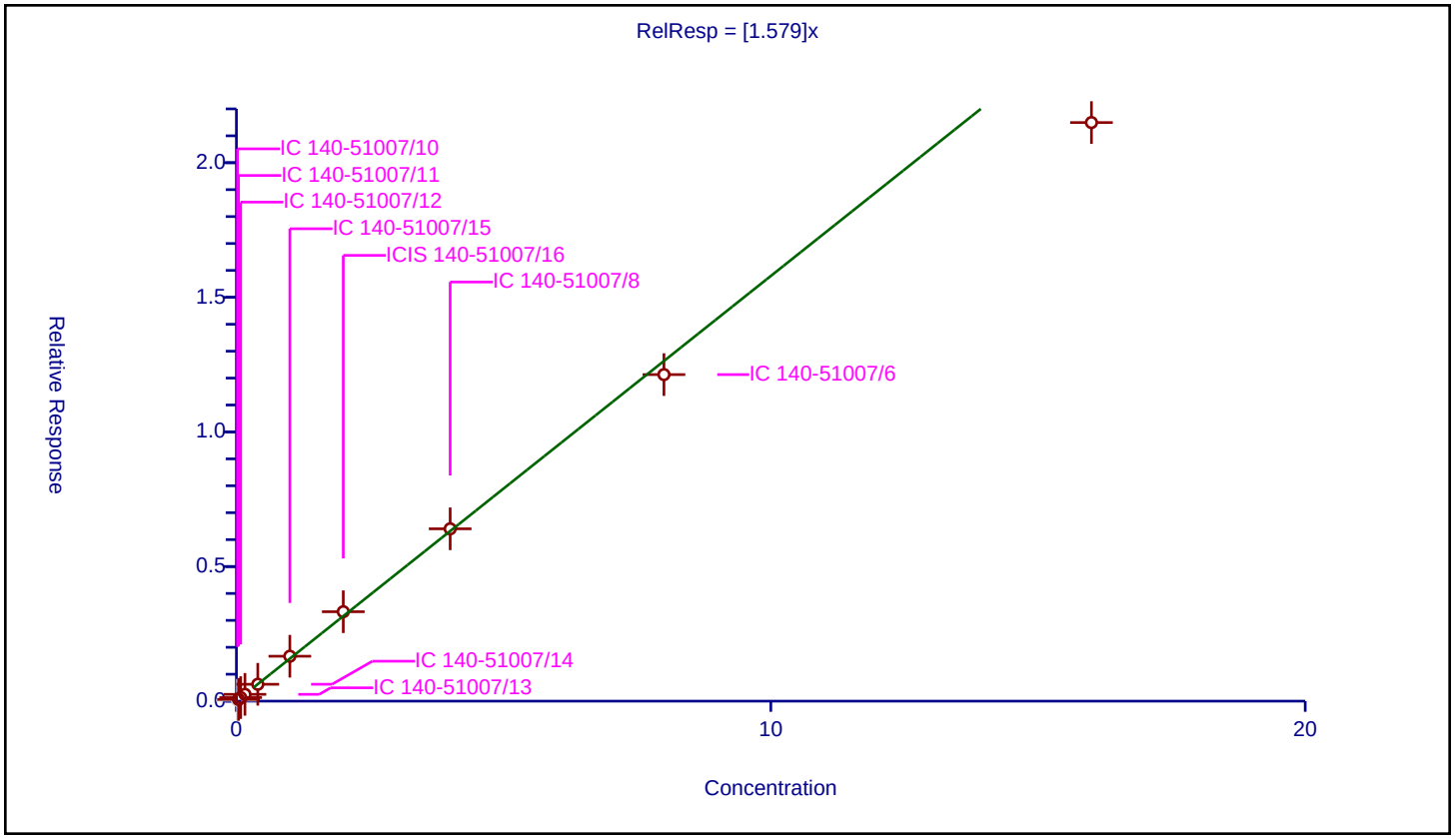
Curve Coefficients

Intercept:	0
Slope:	1.579

Error Coefficients

Standard Error:	3300000
Relative Standard Error:	6.4
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.035496	4.8	1590004.0	1.774788	N
2	IC 140-51007/11	0.04	0.064983	4.8	1526419.0	1.624587	Y
3	IC 140-51007/12	0.08	0.132353	4.8	1474349.0	1.654412	Y
4	IC 140-51007/13	0.16	0.252463	4.8	1449526.0	1.577895	Y
5	IC 140-51007/14	0.4	0.627064	4.8	1427682.0	1.56766	Y
6	IC 140-51007/15	1.0	1.66878	4.8	1438027.0	1.66878	Y
7	ICIS 140-51007/16	2.0	3.322266	4.8	1474901.0	1.661133	Y
8	IC 140-51007/8	4.0	6.40159	4.8	1696122.0	1.600398	Y
9	IC 140-51007/6	8.0	12.130232	4.8	1754996.0	1.516279	Y
10	IC 140-51007/4	16.0	21.491971	4.8	1741193.0	1.343248	Y



Calibration / Dodecane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

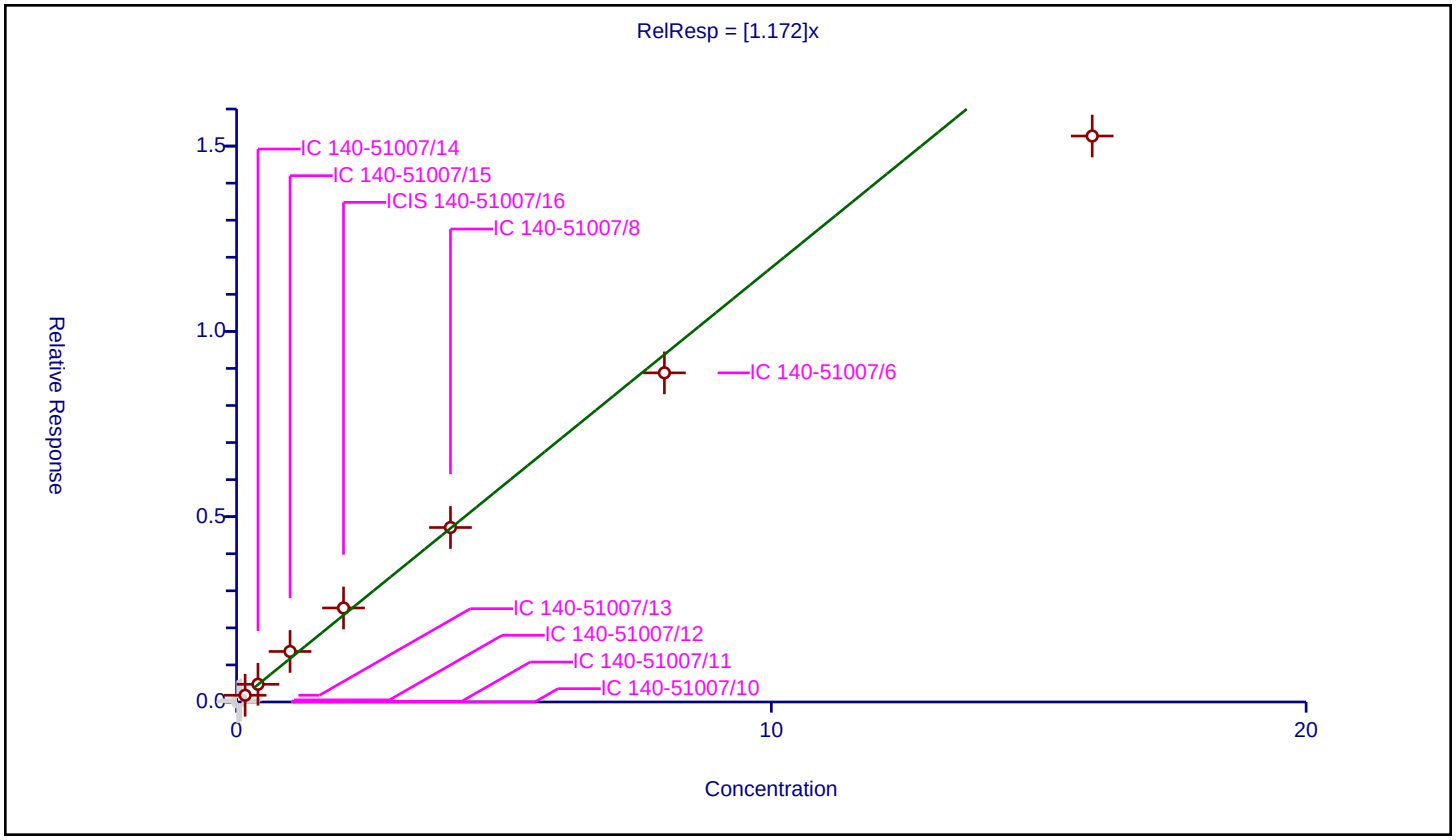
Curve Coefficients

Intercept:	0
Slope:	1.172

Error Coefficients

Standard Error:	2730000
Relative Standard Error:	11.0
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.004169	4.8	1590004.0	0.208452	N
2	IC 140-51007/11	0.04	0.018723	4.8	1526419.0	0.468076	N
3	IC 140-51007/12	0.08	0.057385	4.8	1474349.0	0.717306	N
4	IC 140-51007/13	0.16	0.181701	4.8	1449526.0	1.135633	Y
5	IC 140-51007/14	0.4	0.477454	4.8	1427682.0	1.193636	Y
6	IC 140-51007/15	1.0	1.363388	4.8	1438027.0	1.363388	Y
7	ICIS 140-51007/16	2.0	2.536757	4.8	1474901.0	1.268379	Y
8	IC 140-51007/8	4.0	4.708308	4.8	1696122.0	1.177077	Y
9	IC 140-51007/6	8.0	8.880931	4.8	1754996.0	1.110116	Y
10	IC 140-51007/4	16.0	15.270865	4.8	1741193.0	0.954429	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

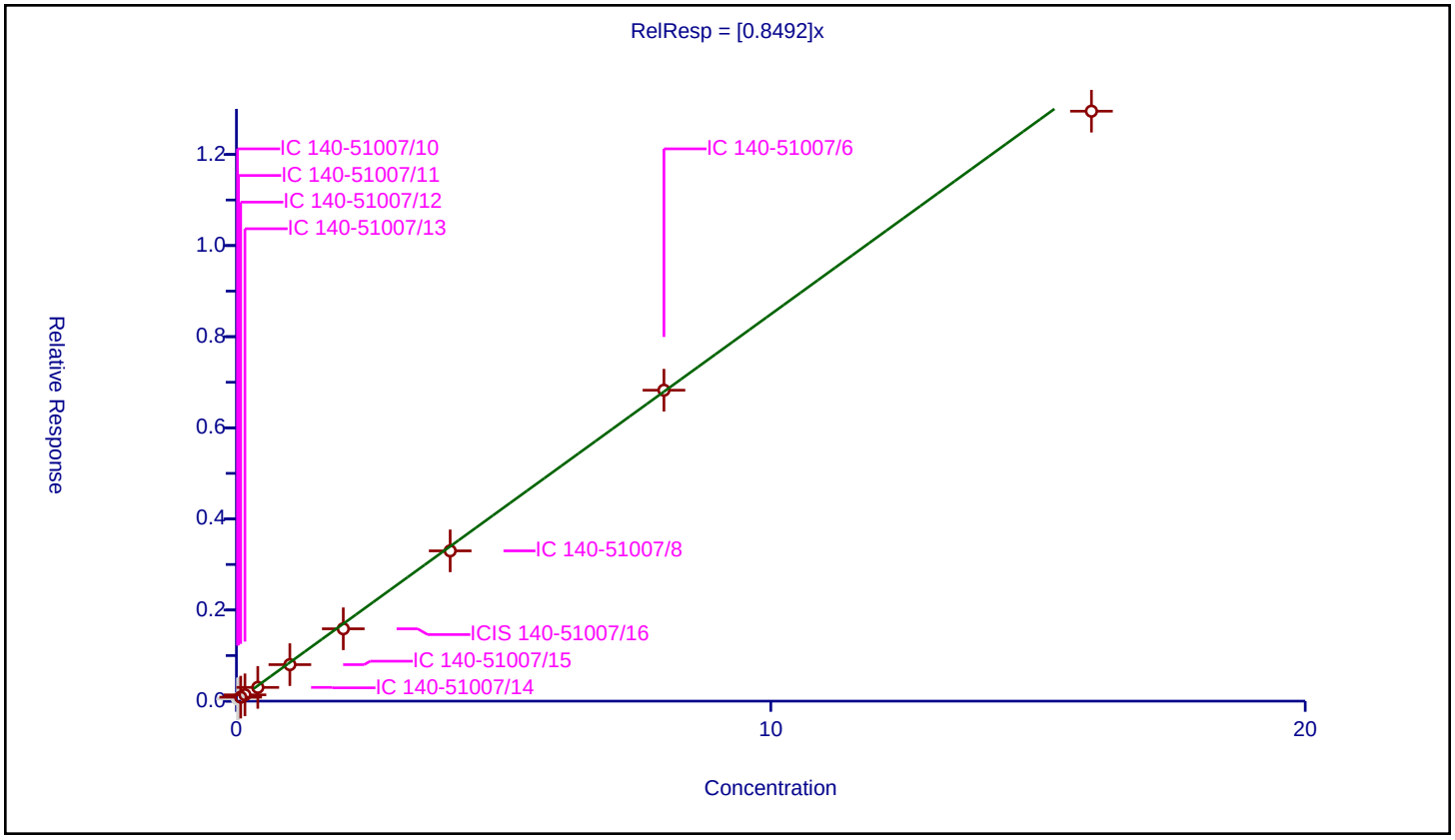
Curve Coefficients

Intercept:	0
Slope:	0.8492

Error Coefficients

Standard Error:	2070000
Relative Standard Error:	12.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.048978	4.8	1590004.0	2.448899	N
2	IC 140-51007/11	0.04	0.057855	4.8	1526419.0	1.446366	N
3	IC 140-51007/12	0.08	0.087617	4.8	1474349.0	1.095209	Y
4	IC 140-51007/13	0.16	0.137997	4.8	1449526.0	0.862482	Y
5	IC 140-51007/14	0.4	0.301344	4.8	1427682.0	0.753361	Y
6	IC 140-51007/15	1.0	0.801378	4.8	1438027.0	0.801378	Y
7	ICIS 140-51007/16	2.0	1.588249	4.8	1474901.0	0.794125	Y
8	IC 140-51007/8	4.0	3.298956	4.8	1696122.0	0.824739	Y
9	IC 140-51007/6	8.0	6.825189	4.8	1754996.0	0.853149	Y
10	IC 140-51007/4	16.0	12.949993	4.8	1741193.0	0.809375	Y



Calibration / Naphthalene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

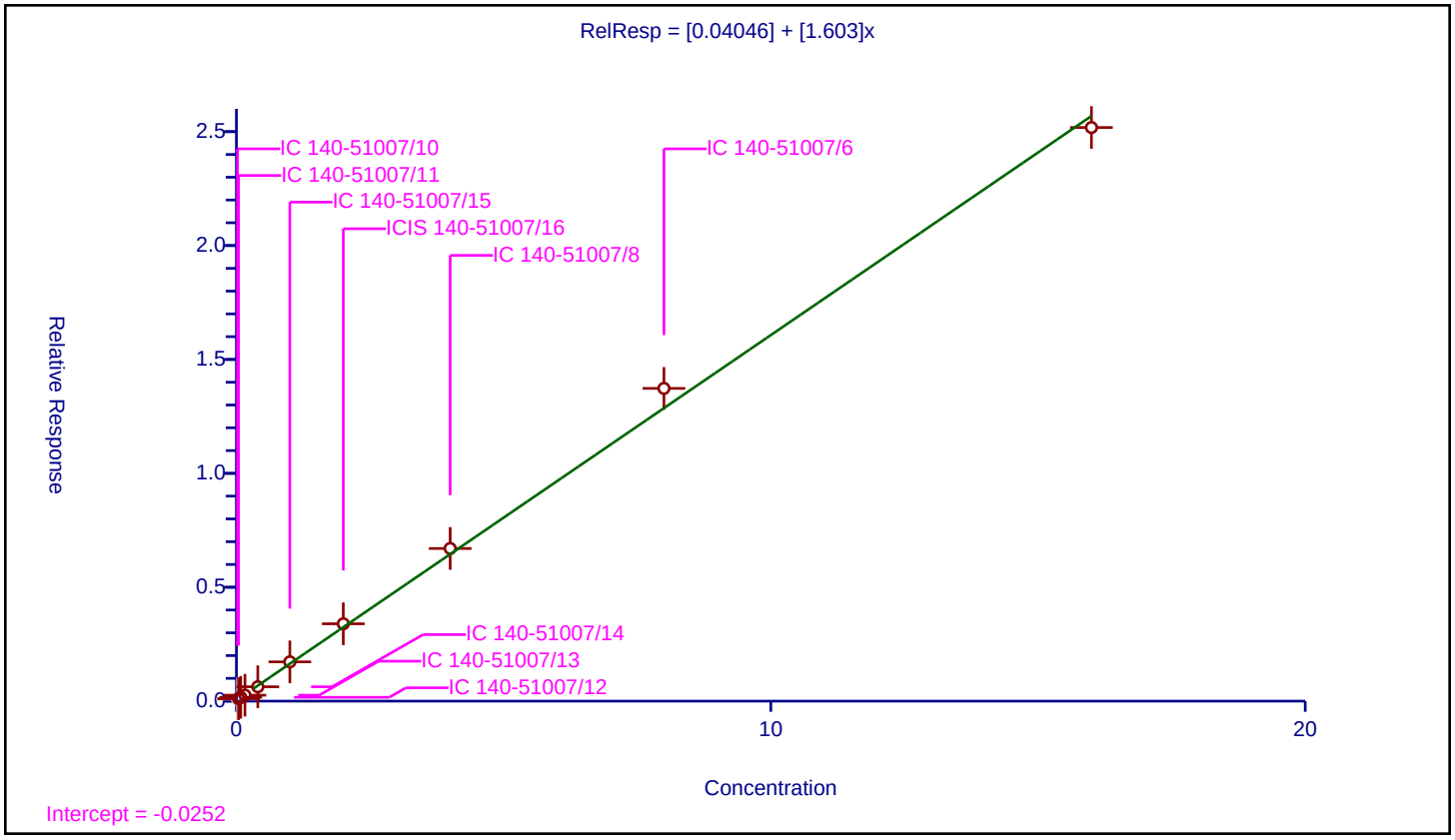
Curve Coefficients

Intercept:	0.04046
Slope:	1.603

Error Coefficients

Standard Error:	4060000
Relative Standard Error:	7.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.091897	4.8	1590004.0	4.594856	N
2	IC 140-51007/11	0.04	0.107401	4.8	1526419.0	2.685029	Y
3	IC 140-51007/12	0.08	0.167329	4.8	1474349.0	2.091608	Y
4	IC 140-51007/13	0.16	0.261537	4.8	1449526.0	1.634603	Y
5	IC 140-51007/14	0.4	0.630863	4.8	1427682.0	1.577158	Y
6	IC 140-51007/15	1.0	1.723708	4.8	1438027.0	1.723708	Y
7	ICIS 140-51007/16	2.0	3.395735	4.8	1474901.0	1.697867	Y
8	IC 140-51007/8	4.0	6.701739	4.8	1696122.0	1.675435	Y
9	IC 140-51007/6	8.0	13.730241	4.8	1754996.0	1.71628	Y
10	IC 140-51007/4	16.0	25.182455	4.8	1741193.0	1.573903	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

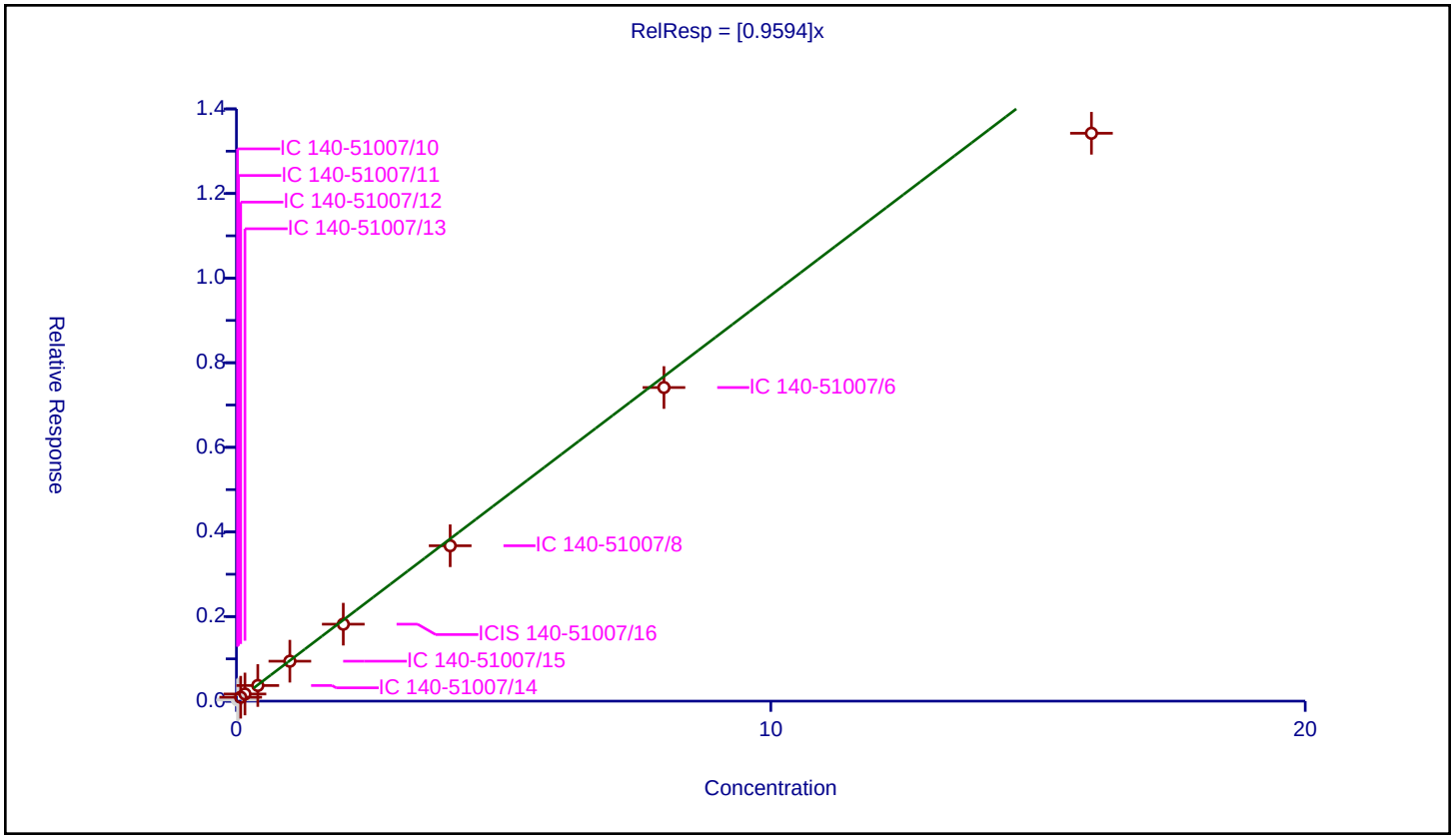
Curve Coefficients

Intercept:	0
Slope:	0.9594

Error Coefficients

Standard Error:	2180000
Relative Standard Error:	10.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.02701	4.8	1590004.0	1.350487	N
2	IC 140-51007/11	0.04	0.047946	4.8	1526419.0	1.198649	N
3	IC 140-51007/12	0.08	0.09253	4.8	1474349.0	1.156619	Y
4	IC 140-51007/13	0.16	0.16929	4.8	1449526.0	1.058063	Y
5	IC 140-51007/14	0.4	0.369007	4.8	1427682.0	0.922516	Y
6	IC 140-51007/15	1.0	0.94405	4.8	1438027.0	0.94405	Y
7	ICIS 140-51007/16	2.0	1.819176	4.8	1474901.0	0.909588	Y
8	IC 140-51007/8	4.0	3.673219	4.8	1696122.0	0.918305	Y
9	IC 140-51007/6	8.0	7.413495	4.8	1754996.0	0.926687	Y
10	IC 140-51007/4	16.0	13.423621	4.8	1741193.0	0.838976	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

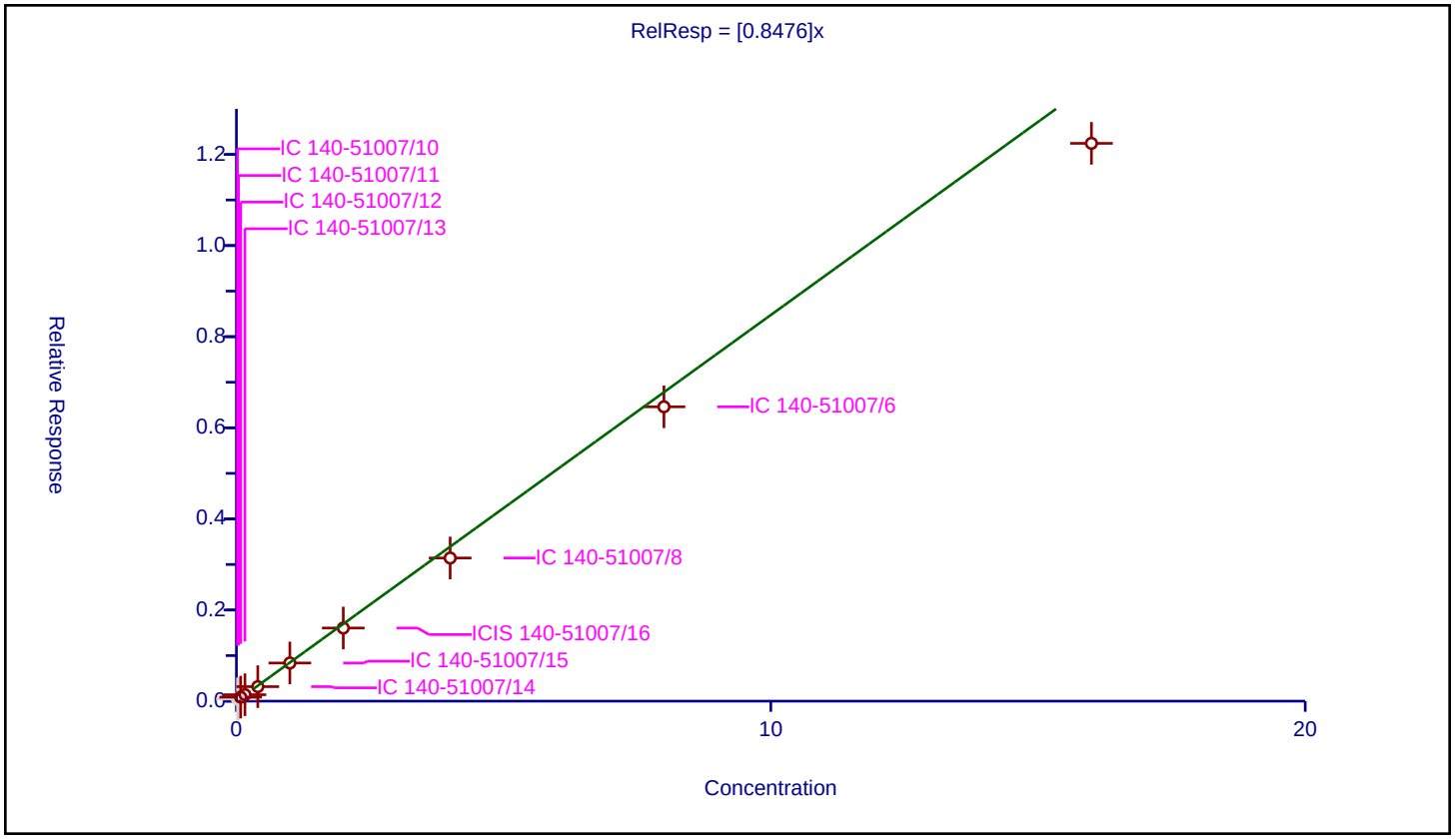
Curve Coefficients

Intercept:	0
Slope:	0.8476

Error Coefficients

Standard Error:	1960000
Relative Standard Error:	12.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.02	0.046835	4.8	1590004.0	2.34173	N
2	IC 140-51007/11	0.04	0.055245	4.8	1526419.0	1.381115	N
3	IC 140-51007/12	0.08	0.088349	4.8	1474349.0	1.104365	Y
4	IC 140-51007/13	0.16	0.141226	4.8	1449526.0	0.882661	Y
5	IC 140-51007/14	0.4	0.318232	4.8	1427682.0	0.795581	Y
6	IC 140-51007/15	1.0	0.837294	4.8	1438027.0	0.837294	Y
7	ICIS 140-51007/16	2.0	1.604915	4.8	1474901.0	0.802458	Y
8	IC 140-51007/8	4.0	3.141849	4.8	1696122.0	0.785462	Y
9	IC 140-51007/6	8.0	6.461255	4.8	1754996.0	0.807657	Y
10	IC 140-51007/4	16.0	12.243531	4.8	1741193.0	0.765221	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

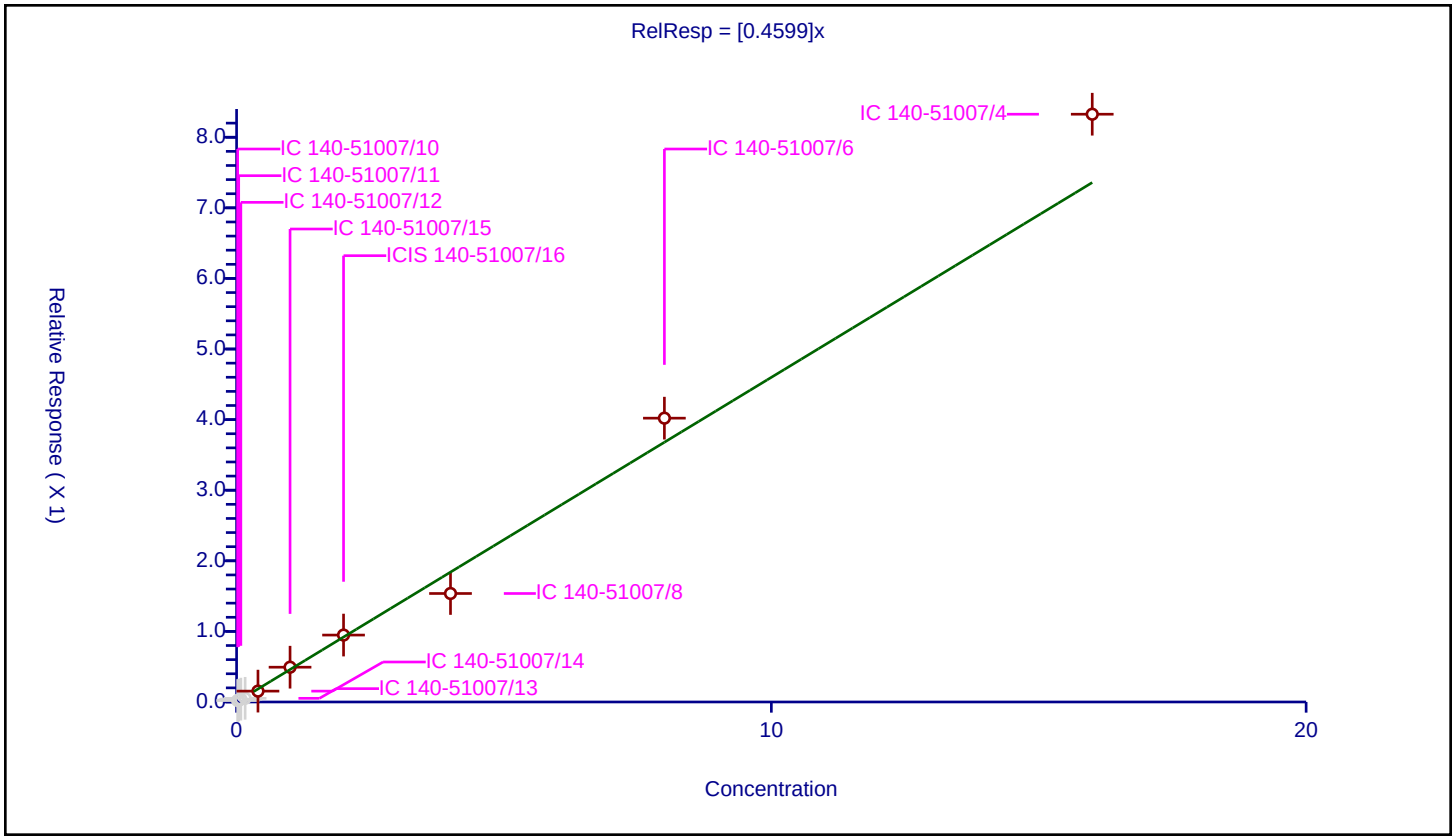
Curve Coefficients

Intercept:	0
Slope:	0.4599

Error Coefficients

Standard Error:	1530000
Relative Standard Error:	13.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.020001	0.020598	4.8	1590004.0	1.029833	N
2	IC 140-51007/11	0.040002	0.027166	4.8	1526419.0	0.679124	N
3	IC 140-51007/12	0.080004	0.040641	4.8	1474349.0	0.507982	N
4	IC 140-51007/13	0.160008	0.051983	4.8	1449526.0	0.324876	N
5	IC 140-51007/14	0.40002	0.154118	4.8	1427682.0	0.385277	Y
6	IC 140-51007/15	1.00005	0.492872	4.8	1438027.0	0.492847	Y
7	ICIS 140-51007/16	2.0001	0.948153	4.8	1474901.0	0.474053	Y
8	IC 140-51007/8	4.000199	1.536753	4.8	1696122.0	0.384169	Y
9	IC 140-51007/6	8.000399	4.020787	4.8	1754996.0	0.502573	Y
10	IC 140-51007/4	16.000797	8.326302	4.8	1741193.0	0.520368	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

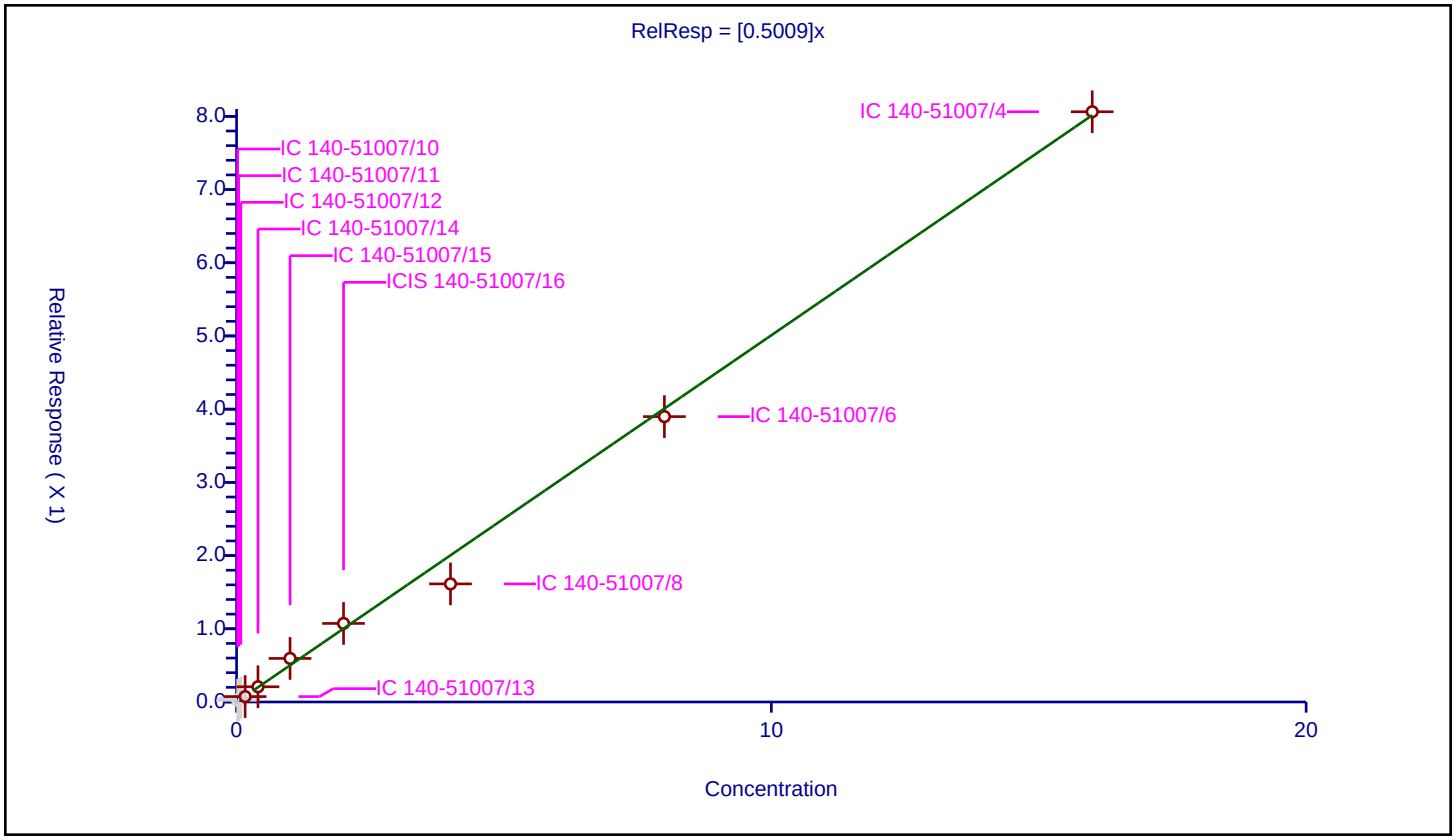
Curve Coefficients

Intercept:	0
Slope:	0.5009

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	12.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-51007/10	0.020001	0.023571	4.8	1590004.0	1.178504	N
2	IC 140-51007/11	0.040002	0.030009	4.8	1526419.0	0.750189	N
3	IC 140-51007/12	0.080004	0.054692	4.8	1474349.0	0.683617	N
4	IC 140-51007/13	0.160008	0.073749	4.8	1449526.0	0.460907	Y
5	IC 140-51007/14	0.40002	0.207831	4.8	1427682.0	0.519552	Y
6	IC 140-51007/15	1.00005	0.595202	4.8	1438027.0	0.595173	Y
7	ICIS 140-51007/16	2.0001	1.073088	4.8	1474901.0	0.536517	Y
8	IC 140-51007/8	4.000199	1.613142	4.8	1696122.0	0.403266	Y
9	IC 140-51007/6	8.000399	3.898197	4.8	1754996.0	0.48725	Y
10	IC 140-51007/4	16.000797	8.062329	4.8	1741193.0	0.50387	Y



FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 50646

SDG No.:

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2021 14:14 Calibration End Date: 06/09/2021 23:44 Calibration ID: 3095

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-50646/9	SF09IC01.D
Level 2	IC 140-50646/10	SF09IC02.D
Level 3	IC 140-50646/11	SF09IC03.D
Level 4	IC 140-50646/12	SF09IC04.D
Level 5	IC 140-50646/13	SF09IC05.D
Level 6	IC 140-50646/14	SF09IC06.D
Level 7	ICIS 140-50646/15	SF09IC07.D
Level 8	IC 140-50646/7	SF09IC08.D
Level 9	IC 140-50646/5	SF09C09.D
Level 10	IC 140-50646/3	SF09IC10.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Chlorodifluoromethane	+++++ 2.6645	3.0077 2.7261	2.9570 2.4786	2.8523 2.4891	2.7114 2.4748	Ave		2.7068				7.5		30.0			
Propene	+++++ 1.1711	+++++ 1.1601	+++++ 1.0696	1.2847 1.0641	1.2518 1.0630	Ave		1.1521				8.0		30.0			
Dichlorodifluoromethane	+++++ 3.7941	4.1674 3.8608	3.8571 3.6989	3.8751 3.5947	3.8942 3.4408	Ave		3.7981				5.4		30.0			
Chloromethane	+++++ 0.5656	+++++ 0.5767	0.6762 0.4195	0.7438 0.4311	0.6091 0.4799	Ave		0.5627				20.4		30.0			
1,2-Dichlorotetrafluoroethane	+++++ 3.4435	3.8454 3.5930	3.5879 3.3111	3.7383 3.3337	3.6779 3.2400	Ave		3.5301				5.9		30.0			
Vinyl chloride	2.0868 1.8339	1.9524 1.8840	1.8472 1.3318	1.9714 1.4235	1.9483 1.6464	Ave		1.7926				13.8		30.0			
1,3-Butadiene	+++++ 1.4150	1.1846 1.4043	1.2260 0.8885	1.4508 0.9662	1.4758 1.2614	Ave		1.2525				16.9		30.0			
Butane	+++++ 2.3086	+++++ 2.3567	2.0041 1.3261	2.4670 1.4692	2.4429 2.0373	Ave		2.0515				21.4		30.0			
Bromomethane	+++++ 1.5073	+++++ 1.5991	1.6407 1.2103	1.8313 1.1266	1.6684 1.4178	Ave		1.5002				15.9		30.0			
Chloroethane	+++++ 0.6132	0.6573 0.6756	0.6265 0.4688	0.6364 0.4867	0.6882 0.5908	Ave		0.6048				12.9		30.0			
Ethanol	+++++ 0.4427	+++++ 0.4995	0.4984 0.3144	0.4452 0.3178	0.4999 0.4222	Ave		0.4300				17.8		30.0			
Vinyl bromide	+++++ 1.4426	1.5538 1.6227	1.5301 1.4355	1.6153 1.4170	1.6304 1.4713	Ave		1.5243				5.6		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 50646

SDG No.:

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2021 14:14 Calibration End Date: 06/09/2021 23:44 Calibration ID: 3095

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
2-Methylbutane	+++++ 1.7070	+++++ 1.5840	1.7694 1.6107	1.8658 1.6099	1.6862 1.6210	Ave		1.6818				5.8		30.0			
Trichlorofluoromethane	+++++ 3.6974	3.9736 3.8357	3.7136 3.6598	4.0907 3.5963	3.8216 3.5025	Ave		3.7657				4.9		30.0			
Acrolein	+++++ 0.4956	+++++ 0.5391	0.6433 0.4861	0.5614 0.4994	0.5742 0.5082	Ave		0.5384				9.9		30.0			
Acetonitrile	+++++ 0.5540	+++++ 0.6113	+++++ 0.5576	0.7996 0.5566	0.5924 0.5518	Ave		0.6033				14.8		30.0			
Acetone	+++++ 0.8304	+++++ 0.8004	+++++ 0.6995	+++++ 0.6802	1.3263 0.6871	Lin	0.5574	0.6714							1.0000		0.9900
Isopropyl alcohol	+++++ 1.8289	2.0073 2.0108	1.8370 1.8305	1.9566 1.8314	1.9425 1.8322	Ave		1.8975				4.2		30.0			
Pentane	+++++ 0.1646	+++++ 0.1633	0.1412 0.1575	0.1796 0.1477	0.1537 0.1483	Ave		0.1570				7.7		30.0			
Ethyl ether	+++++ 1.2907	1.3417 1.3237	1.2846 1.2136	1.3196 1.2270	1.3099 1.2461	Ave		1.2841				3.5		30.0			
1,1-Dichloroethene	+++++ 1.3455	1.5055 1.3876	1.3936 1.3088	1.4421 1.2933	1.3913 1.2769	Ave		1.3716				5.4		30.0			
t-Butyl alcohol	+++++ 2.4847	2.5830 2.6893	2.6509 2.5524	2.5843 2.5212	2.5826 2.4875	Ave		2.5707				2.7		30.0			
Acrylonitrile	+++++ 1.1857	+++++ 1.1992	1.4037 1.1278	1.3181 1.1269	1.2055 1.1385	Ave		1.2132				8.2		30.0			
1,1,2-Trichlorotrifluoroethane	+++++ 3.1630	3.4734 3.2530	3.1348 3.1130	3.3631 3.0664	3.2606 3.0586	Ave		3.2096				4.4		30.0			
Methylene Chloride	+++++ 1.3391	+++++ 1.3377	+++++ 1.2438	1.7329 1.2163	1.4539 1.1870	Ave		1.3587				13.9		30.0			
3-Chloropropene	+++++ 0.9658	+++++ 1.0435	0.9994 0.9683	1.1482 0.9764	1.0679 0.9640	Ave		1.0167				6.5		30.0			
Carbon disulfide	+++++ 4.0487	+++++ 4.1607	4.7398 3.9112	4.5877 3.9178	4.1873 3.8805	Ave		4.1792				7.7		30.0			
trans-1,2-Dichloroethene	+++++ 1.3304	1.3268 1.3731	1.3982 1.3331	1.4212 1.3292	1.3224 1.3263	Ave		1.3512				2.7		30.0			
2-Methylpentane	+++++ 3.1651	3.3780 3.3035	3.3697 3.0708	3.2849 3.0754	3.1707 3.1686	Ave		3.2207				3.6		30.0			
Methyl tert-butyl ether	+++++ 3.3816	3.3158 3.5200	3.3032 3.3740	3.4463 3.3902	3.3500 3.3194	Ave		3.3778				2.1		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 50646

SDG No.:

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2021 14:14 Calibration End Date: 06/09/2021 23:44 Calibration ID: 3095

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,1-Dichloroethane	+++++ 2.8760	3.4279 2.9145	3.1359 2.7562	3.0498 2.7366	2.9149 2.7217	Ave		2.9482				7.7		30.0			
Vinyl acetate	+++++ 3.0249	2.8123 3.2500	2.8002 3.1786	2.8802 3.3839	2.8808 3.5483	Ave		3.0843				8.8		30.0			
2-Butanone	+++++ 0.6314	+++++ 0.6498	0.8676 0.6189	0.7290 0.6165	0.7624 0.6191	Ave		0.6868				13.3		30.0			
Hexane	1.2872 1.1907	1.1685 1.1899	1.1351 1.1196	1.2078 1.1351	1.2050 1.1500	Ave		1.1789				4.2		30.0			
cis-1,2-Dichloroethene	1.5736 1.3809	1.4633 1.4388	1.3959 1.3757	1.4042 1.3898	1.3825 1.3873	Ave		1.4192				4.3		30.0			
Ethyl acetate	+++++ 3.1005	3.3968 3.2344	3.2745 3.0594	3.1658 3.0975	3.1563 3.1834	Ave		3.1854				3.3		30.0			
Chloroform	+++++ 3.0357	3.3885 3.0899	3.2782 2.9508	3.2597 2.9342	3.0435 2.9388	Ave		3.1022				5.4		30.0			
Tetrahydrofuran	+++++ 1.4877	1.4439 1.5742	1.5260 1.4883	1.4810 1.5119	1.5082 1.5563	Ave		1.5086				2.6		30.0			
1,1,1-Trichloroethane	+++++ 2.7502	3.1026 2.8464	2.7194 2.8065	2.8514 2.8205	2.7543 2.7869	Ave		2.8265				4.0		30.0			
1,2-Dichloroethane	+++++ 0.3915	+++++ 0.3975	0.4183 0.3963	0.4028 0.3948	0.3941 0.3965	Ave		0.3990				2.1		30.0			
1-Butanol	+++++ 0.0741	+++++ 0.0895	+++++ 0.0892	+++++ 0.0926	0.0787 0.0956	Ave		0.0866				9.7		30.0			
Benzene	+++++ 0.8640	1.0270 0.8819	0.9418 0.8763	0.9175 0.8864	0.8748 0.9259	Ave		0.9106				5.6		30.0			
Cyclohexane	+++++ 0.1264	+++++ 0.1287	0.1159 0.1311	0.1228 0.1309	0.1203 0.1338	Ave		0.1262				4.9		30.0			
Carbon tetrachloride	0.6480 0.4852	0.5613 0.6052	0.5484 0.6068	0.4392 0.6654	0.5494 0.6419	Ave		0.5751				12.7		30.0			
2,3-Dimethylpentane	+++++ 0.1753	0.1554 0.1797	0.1620 0.1816	0.1582 0.1789	0.1647 0.1829	Ave		0.1710				6.3		30.0			
Thiophene	+++++ 0.4996	0.4833 0.5081	0.4980 0.5016	0.5000 0.5046	0.4858 0.5167	Ave		0.4997				2.1		30.0			
2,2,4-Trimethylpentane	+++++ 1.5729	1.5478 1.6164	1.4903 1.5912	1.4984 1.6287	1.5273 1.7345	Ave		1.5786				4.8		30.0			
Heptane	+++++ 0.2463	0.2350 0.2762	0.2249 0.2719	0.2256 0.2769	0.2587 0.2885	Ave		0.2560				9.4		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 50646

SDG No.:

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2021 14:14 Calibration End Date: 06/09/2021 23:44 Calibration ID: 3095

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,2-Dichloropropane	+++++ 0.4028	0.4297 0.4075	0.4024 0.4057	0.4029 0.4052	0.4005 0.4317	Ave		0.4098				2.9		30.0			
Trichloroethene	0.4944 0.3781	0.4046 0.3825	0.4102 0.3987	0.3892 0.3981	0.3707 0.4162	Ave		0.4043				8.6		30.0			
Dibromomethane	+++++ 0.3691	0.4693 0.3733	0.3942 0.3818	0.3991 0.3861	0.3575 0.3954	Ave		0.3918				8.2		30.0			
Bromodichloromethane	+++++ 0.5845	0.6122 0.6050	0.5354 0.6219	0.5555 0.6370	0.5519 0.6683	Ave		0.5969				7.3		30.0			
1,4-Dioxane	+++++ 0.1188	+++++ 0.1366	+++++ 0.1301	0.1102 0.1291	0.1165 0.1318	Ave		0.1247				7.7		30.0			
Methyl methacrylate	0.3522 0.3456	0.3411 0.3657	0.3061 0.3653	0.2959 0.3749	0.3193 0.3944	Ave		0.3460				9.0		30.0			
Methylcyclohexane	+++++ 0.4916	+++++ 0.5185	0.4103 0.5192	0.4312 0.5302	0.4573 0.5542	LinF		0.5474							0.9990		0.9900
4-Methyl-2-pentanone (MIBK)	+++++ 0.6550	0.6659 0.6864	0.5824 0.6774	0.6228 0.6992	0.6275 0.7546	Ave		0.6635				7.5		30.0			
cis-1,3-Dichloropropene	0.4929 0.4671	0.4444 0.4840	0.4068 0.5035	0.4461 0.5164	0.4300 0.5353	Ave		0.4727				8.6		30.0			
trans-1,3-Dichloropropene	+++++ 0.4541	0.4470 0.4840	0.3821 0.5002	0.4058 0.5159	0.4183 0.5230	Ave		0.4589				11.0		30.0			
Toluene	+++++ 1.1953	1.4009 1.2376	1.1898 1.2321	1.1432 1.2441	1.1649 1.2823	Ave		1.2322				6.2		30.0			
1,1,2-Trichloroethane	+++++ 0.4082	0.4244 0.4099	0.4124 0.4004	0.4362 0.4009	0.3994 0.4102	Ave		0.4113				2.9		30.0			
2-Hexanone	+++++ 0.3912	+++++ 0.4317	+++++ 0.4364	0.3243 0.4461	0.3593 0.4698	Ave		0.4084				12.8		30.0			
Octane	+++++ 0.3105	+++++ 0.3241	0.2348 0.3250	0.2823 0.3312	0.2818 0.3417	Ave		0.3039				11.7		30.0			
C8 Range	+++++ 2.8018	+++++ 2.8739	+++++ 2.8203	2.6362 2.8892	2.9763 3.0725	Ave		2.8672				4.8		30.0			
Dibromochloromethane	+++++ 0.6821	+++++ 0.7679	0.6351 0.8125	0.6284 0.8596	0.6434 0.9021	Ave		0.7414				14.7		30.0			
1,2-Dibromoethane	+++++ 0.6815	0.6945 0.7021	0.6769 0.7285	0.6604 0.7539	0.6525 0.7741	Ave		0.7027				5.9		30.0			
Tetrachloroethene	0.6056 0.4622	0.5204 0.4770	0.4680 0.4844	0.4857 0.4889	0.4527 0.5160	Ave		0.4961				8.9		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 50646

SDG No.:

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2021 14:14 Calibration End Date: 06/09/2021 23:44 Calibration ID: 3095

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Chlorobenzene	+++++ 1.0083	+++++ 1.0255	1.1251 1.0402	1.0460 1.0757	0.9980 1.1163	Ave		1.0544				4.5		30.0			
Ethylbenzene	+++++ 1.4922	1.5641 1.5485	1.4149 1.5672	1.4379 1.6149	1.4037 1.7079	Ave		1.5279				6.6		30.0			
m-Xylene & p-Xylene	+++++ 1.1963	1.2236 1.2472	1.1225 1.2693	1.1425 1.3184	1.1282 1.4058	Ave		1.2282				7.7		30.0			
Nonane	+++++ 0.8475	+++++ 0.8824	0.6204 0.8825	0.7130 0.9095	0.7734 0.9874	Ave		0.8270				14.3		30.0			
Bromoform	0.7806 0.7568	0.6593 0.8804	0.6028 1.0274	0.5916 1.1651	0.6767 +++++	Ave		0.7934				24.8		30.0			
Styrene	+++++ 0.8824	+++++ 0.9541	0.7478 0.9951	0.7371 1.0508	0.7879 1.1179	Ave		0.9091				15.8		30.0			
o-Xylene	+++++ 1.2507	1.2252 1.2907	1.2042 1.2720	1.2037 1.2938	1.1898 1.3789	Ave		1.2566				4.8		30.0			
1,1,2,2-Tetrachloroethane	+++++ 0.9646	0.9541 1.0003	0.9094 1.0041	0.9536 1.0281	0.8873 1.1123	Ave		0.9793				6.8		30.0			
1,2,3-Trichloropropane	+++++ 0.2081	0.1846 0.2157	0.1840 0.2215	0.2132 0.2231	0.1979 0.2350	Ave		0.2092				8.3		30.0			
Isopropylbenzene	+++++ 1.6852	1.7024 1.7793	1.6004 1.8264	1.6002 1.8812	1.5592 2.0364	Ave		1.7412				8.9		30.0			
Propylbenzene	+++++ 0.4548	+++++ 0.4844	0.4072 0.5005	0.3994 0.5199	0.4035 0.5671	Ave		0.4671				13.2		30.0			
2-Chlorotoluene	+++++ 0.4484	0.4683 0.4643	0.4743 0.4705	0.4414 0.4810	0.4109 0.5162	Ave		0.4639				6.3		30.0			
4-Ethyltoluene	+++++ 1.7494	1.6840 1.8538	1.5289 1.8896	1.6409 1.9892	1.6334 2.1681	Ave		1.7930				11.2		30.0			
1,3,5-Trimethylbenzene	+++++ 0.6728	0.6536 0.7295	0.6335 0.7424	0.6306 0.7772	0.6530 0.8414	Ave		0.7038				10.4		30.0			
Alpha Methyl Styrene	+++++ 0.6514	+++++ 0.7497	+++++ 0.7946	0.5169 0.8519	0.5389 0.9518	Ave		0.7222				22.4		30.0			
Decane	+++++ 1.1840	0.9505 1.2054	0.9584 1.2164	1.0630 1.2505	1.0989 1.3138	Ave		1.1379				11.2		30.0			
tert-Butylbenzene	+++++ 1.5459	1.4842 1.6285	1.4496 1.7020	1.4850 1.8045	1.4308 1.9440	Ave		1.6083				11.0		30.0			
1,2,4-Trimethylbenzene	+++++ 1.5664	1.4489 1.6449	1.3828 1.6924	1.5079 1.7943	1.4180 1.9167	Ave		1.5969				11.3		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 50646

SDG No.:

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2021 14:14 Calibration End Date: 06/09/2021 23:44 Calibration ID: 3095

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
sec-Butylbenzene	2.5234 2.2207	2.0873 2.3501	2.0700 2.4353	2.1259 2.6067	2.0310 2.8057	Ave		2.3256				11.3		30.0			
1,3-Dichlorobenzene	+++++ 1.0834	1.3314 1.1660	1.1855 1.2451	1.1083 1.3318	1.0360 1.4675	Ave		1.2172				11.5		30.0			
Benzyl chloride	+++++ 1.0393	+++++ 1.1514	0.8808 1.2368	0.8398 1.3678	0.9011 1.5412	Ave		1.1198				22.5		30.0			
1,4-Dichlorobenzene	+++++ 1.0614	1.3137 1.1502	1.1691 1.2264	1.0837 1.3369	0.9945 1.4689	Ave		1.2005				12.6		30.0			
4-Isopropyltoluene	+++++ 1.7822	+++++ 1.8861	1.5748 1.9557	1.6350 2.0653	1.6049 2.2603	Ave		1.8455				13.2		30.0			
1,2,3-Trimethylbenzene	1.6093 1.5671	1.3750 1.6470	1.4515 1.6900	1.4955 1.7522	1.4489 1.9400	Ave		1.5976				10.6		30.0			
Indane	1.5470 1.4895	1.3278 1.5937	1.3671 1.6704	1.3910 1.7885	1.3562 1.8683	Ave		1.5399				12.3		30.0			
1,2-Dichlorobenzene	+++++ 1.0976	1.3345 1.1834	1.1684 1.2679	1.1102 1.3555	1.0429 1.4352	Ave		1.2217				10.9		30.0			
Butylbenzene	+++++ 1.8732	1.8018 1.9909	1.7449 2.0399	1.8098 2.1564	1.7353 2.1995	Ave		1.9280				9.1		30.0			
Indene	1.2289 1.2284	1.0126 1.3520	1.0035 1.4304	1.0491 1.5247	1.0668 1.6079	Ave		1.2504				17.7		30.0			
Undecane	+++++ 1.3341	1.0712 1.3934	1.1655 1.3992	1.1854 1.4607	1.1230 1.5052	Ave		1.2931				12.3		30.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.4768	+++++ 0.5303	0.4519 0.6258	0.4112 0.7159	0.4051 +++++	Ave		0.5167				22.5		30.0			
1,2,4,5-Tetramethylbenzene	+++++ 1.7289	+++++ 1.8133	1.6313 1.9059	1.6211 2.0669	1.4818 2.2734	Ave		1.8153				14.3		30.0			
Dodecane	+++++ 1.4459	+++++ 1.3514	1.3579 1.3458	1.2816 1.4964	1.0661 1.5184	Ave		1.3579				10.6		30.0			
1,2,4-Trichlorobenzene	+++++ 0.8059	+++++ 0.8644	1.0109 1.0183	0.8219 1.1784	0.6556 1.2844	Ave		0.9550				21.8		30.0			
Naphthalene	+++++ 1.7748	3.0839 1.8094	2.2744 2.0303	1.8091 2.3112	1.4785 2.4139	Lin1 F		2.2668							0.9900		0.9900
Hexachlorobutadiene	+++++ 1.3750	1.8228 1.3834	1.6491 1.3811	1.5496 1.4061	1.1731 1.3334	Ave		1.4526				13.2		30.0			
1,2,3-Trichlorobenzene	+++++ 0.9624	+++++ 0.9365	1.3021 0.9663	1.1293 1.0102	0.8339 0.9822	Ave		1.0153				14.0		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 50646

SDG No.:

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2021 14:14 Calibration End Date: 06/09/2021 23:44 Calibration ID: 3095

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
2-Methylnaphthalene	+++++ 0.4942	+++++ 0.4948	+++++ 0.5514	0.4041 0.6951	0.3530 0.5600	Ave		0.5075				22.0		50.0			
1-Methylnaphthalene	+++++ 0.5877	+++++ 0.5397	+++++ 0.5801	0.6082 0.6705	0.4776 0.4856	Ave		0.5642				12.2		50.0			
4-Bromofluorobenzene (Surr)	0.7208 0.7471	0.7096 0.7611	0.7188 0.7567	0.7179 0.7671	0.7249 0.7847	Ave		0.7409				3.5		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 50646

SDG No.:

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2021 14:14 Calibration End Date: 06/09/2021 23:44 Calibration ID: 3095

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-50646/9	SF09IC01.D
Level 2	IC 140-50646/10	SF09IC02.D
Level 3	IC 140-50646/11	SF09IC03.D
Level 4	IC 140-50646/12	SF09IC04.D
Level 5	IC 140-50646/13	SF09IC05.D
Level 6	IC 140-50646/14	SF09IC06.D
Level 7	ICIS 140-50646/15	SF09IC07.D
Level 8	IC 140-50646/7	SF09IC08.D
Level 9	IC 140-50646/5	SF09C09.D
Level 10	IC 140-50646/3	SF09IC10.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Chlorodifluoromethane	CBM	Ave	+++++	5418	10181	18848	46159	+++++	0.0400	0.0800	0.160	0.400
			117793	246215	513977	1007023	1822300	1.00	2.00	4.00	8.00	16.0
Propene	CBM	Ave	+++++	+++++	+++++	8489	21311	+++++	+++++	+++++	0.160	0.400
			51774	104777	221790	430525	782704	1.00	2.00	4.00	8.00	16.0
Dichlorodifluoromethane	CBM	Ave	+++++	7507	13280	25606	66295	+++++	0.0400	0.0800	0.160	0.400
			167729	348698	767017	1454345	2533605	1.00	2.00	4.00	8.00	16.0
Chloromethane	CBM	Ave	+++++	+++++	2328	4915	10369	+++++	+++++	0.0800	0.160	0.400
			25005	52090	86996	174414	353376	1.00	2.00	4.00	8.00	16.0
1,2-Dichlorotetrafluoroethane	CBM	Ave	+++++	6927	12353	24702	62612	+++++	0.0400	0.0800	0.160	0.400
			152228	324512	686603	1348730	2385751	1.00	2.00	4.00	8.00	16.0
Vinyl chloride	CBM	Ave	2033	3517	6360	13027	33168	0.0200	0.0400	0.0800	0.160	0.400
			81071	170156	276159	575921	1212332	1.00	2.00	4.00	8.00	16.0
1,3-Butadiene	CBM	Ave	+++++	2134	4221	9587	25123	+++++	0.0400	0.0800	0.160	0.400
			62553	126837	184237	390898	928814	1.00	2.00	4.00	8.00	16.0
Butane	CBM	Ave	+++++	+++++	6900	16302	41587	+++++	+++++	0.0800	0.160	0.400
			102060	212849	274992	594391	1500147	1.00	2.00	4.00	8.00	16.0
Bromomethane	CBM	Ave	+++++	+++++	5649	12101	28403	+++++	+++++	0.0800	0.160	0.400
			66635	144428	250964	455783	1044018	1.00	2.00	4.00	8.00	16.0
Chloroethane	CBM	Ave	+++++	1184	2157	4205	11716	+++++	0.0400	0.0800	0.160	0.400
			27109	61015	97208	196901	435044	1.00	2.00	4.00	8.00	16.0
Ethanol	CBM	Ave	+++++	+++++	8580	14710	42548	+++++	+++++	0.400	0.800	2.00
			97864	225592	325999	642875	1554519	5.00	10.0	20.0	40.0	80.0
Vinyl bromide	CBM	Ave	+++++	2799	5268	10674	27756	+++++	0.0400	0.0800	0.160	0.400
			63775	146563	297670	573290	1083407	1.00	2.00	4.00	8.00	16.0

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 50646

SDG No.:

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2021 14:14 Calibration End Date: 06/09/2021 23:44 Calibration ID: 3095

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
2-Methylbutane	CBM	Ave	+++++ 75462	+++++ 143066	6092 334005	12329 651320	28705 1193639	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Trichlorofluoromethane	CBM	Ave	+++++ 163456	7158 346437	12786 758913	27031 1454971	65059 2579002	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Acrolein	CBM	Ave	+++++ 21911	+++++ 48694	2215 100804	3710 202026	9775 374239	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Acetonitrile	CBM	Ave	+++++ 24493	+++++ 55209	+++++ 115623	5284 225200	10085 406345	+++++ 1.00	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0
Acetone	CBM	Lin	+++++ 110125	+++++ 216876	+++++ 435176	+++++ 825623	67737 1517915	+++++ 3.00	+++++ 6.00	+++++ 12.0	+++++ 24.0	1.20 48.0
Isopropyl alcohol	CBM	Ave	+++++ 242553	10848 544844	18974 1138746	38788 2222773	99208 4047438	+++++ 3.00	0.120 6.00	0.240 12.0	0.480 24.0	1.20 48.0
Pentane	CBM	Ave	+++++ 7278	+++++ 14746	486 32659	1187 59745	2616 109163	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Ethyl ether	CBM	Ave	+++++ 57061	2417 119552	4423 251657	8720 496425	22300 917584	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
1,1-Dichloroethene	CBM	Ave	+++++ 59482	2712 125328	4798 271402	9529 523246	23685 940251	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
t-Butyl alcohol	CBM	Ave	+++++ 109844	4653 242896	9127 529279	17077 1019999	43966 1831629	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Acrylonitrile	CBM	Ave	+++++ 52418	+++++ 108307	4833 233872	8710 455925	20523 838309	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
1,1,2-Trichlorotrifluoroethane	CBM	Ave	+++++ 139828	6257 293810	10793 645527	22223 1240591	55508 2252178	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Methylene Chloride	CBM	Ave	+++++ 59198	+++++ 120818	+++++ 257913	11451 492101	24751 874066	+++++ 1.00	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0
3-Chloropropene	CBM	Ave	+++++ 42695	+++++ 94246	3441 200786	7587 395042	18180 709825	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Carbon disulfide	CBM	Ave	+++++ 178986	+++++ 375786	16319 811041	30315 1585024	71284 2857354	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
trans-1,2-Dichloroethene	CBM	Ave	+++++ 58814	2390 124015	4814 276428	9391 537774	22513 976643	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
2-Methylpentane	CBM	Ave	+++++ 139922	6085 298371	11602 636773	21706 1244232	53977 2333132	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Methyl tert-butyl ether	CBM	Ave	+++++ 149492	5973 317918	11373 699643	22773 1371586	57030 2444231	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 50646

SDG No.:

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2021 14:14 Calibration End Date: 06/09/2021 23:44 Calibration ID: 3095

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,1-Dichloroethane	CBM	Ave	+++++	6175	10797	20153	49622	+++++	0.0400	0.0800	0.160	0.400
			127143	263235	571536	1107152	2004074	1.00	2.00	4.00	8.00	16.0
Vinyl acetate	CBM	Ave	+++++	5066	9641	19032	49042	+++++	0.0400	0.0800	0.160	0.400
			133726	293532	659116	1369044	2612790	1.00	2.00	4.00	8.00	16.0
2-Butanone	CBM	Ave	+++++	+++++	2987	4817	12979	+++++	+++++	0.0800	0.160	0.400
			27915	58687	128340	249406	455861	1.00	2.00	4.00	8.00	16.0
Hexane	CBM	Ave	1254	2105	3908	7981	20513	0.0200	0.0400	0.0800	0.160	0.400
			52639	107471	232171	459237	846787	1.00	2.00	4.00	8.00	16.0
cis-1,2-Dichloroethene	CBM	Ave	1533	2636	4806	9279	23536	0.0200	0.0400	0.0800	0.160	0.400
			61045	129946	285280	562280	1021526	1.00	2.00	4.00	8.00	16.0
Ethyl acetate	CBM	Ave	+++++	6119	11274	20919	53732	+++++	0.0400	0.0800	0.160	0.400
			137068	292128	634416	1253181	2344089	1.00	2.00	4.00	8.00	16.0
Chloroform	CBM	Ave	+++++	6104	11287	21540	51812	+++++	0.0400	0.0800	0.160	0.400
			134201	279073	611896	1187111	2163975	1.00	2.00	4.00	8.00	16.0
Tetrahydrofuran	CBM	Ave	+++++	2601	5254	9786	25676	+++++	0.0400	0.0800	0.160	0.400
			65770	142183	308626	611666	1145975	1.00	2.00	4.00	8.00	16.0
1,1,1-Trichloroethane	CBM	Ave	+++++	5589	9363	18842	46888	+++++	0.0400	0.0800	0.160	0.400
			121582	257084	581962	1141088	2052087	1.00	2.00	4.00	8.00	16.0
1,2-Dichloroethane	DFBZ	Ave	+++++	+++++	7105	13428	34141	+++++	+++++	0.0800	0.160	0.400
			86274	180881	400791	781784	1404227	1.00	2.00	4.00	8.00	16.0
1-Butanol	DFBZ	Ave	+++++	+++++	+++++	+++++	6818	+++++	+++++	+++++	+++++	0.400
			16329	40712	90249	183322	338467	1.00	2.00	4.00	8.00	16.0
Benzene	DFBZ	Ave	+++++	9146	15996	30588	75788	+++++	0.0400	0.0800	0.160	0.400
			190393	401261	886345	1755393	3279565	1.00	2.00	4.00	8.00	16.0
Cyclohexane	DFBZ	Ave	+++++	+++++	1968	4093	10425	+++++	+++++	0.0800	0.160	0.400
			27844	58552	132598	259182	473996	1.00	2.00	4.00	8.00	16.0
Carbon tetrachloride	DFBZ	Ave	3109	4999	9315	14643	47596	0.0200	0.0400	0.0800	0.160	0.400
			106914	275363	613775	1317713	2273516	1.00	2.00	4.00	8.00	16.0
2,3-Dimethylpentane	DFBZ	Ave	+++++	1384	2752	5275	14265	+++++	0.0400	0.0800	0.160	0.400
			38640	81749	183630	354223	647780	1.00	2.00	4.00	8.00	16.0
Thiophene	DFBZ	Ave	+++++	4304	8459	16669	42086	+++++	0.0400	0.0800	0.160	0.400
			110091	231173	507303	999264	1830063	1.00	2.00	4.00	8.00	16.0
2,2,4-Trimethylpentane	DFBZ	Ave	+++++	13784	25313	49953	132316	+++++	0.0400	0.0800	0.160	0.400
			346609	735455	1609448	3225422	6143404	1.00	2.00	4.00	8.00	16.0
Heptane	DFBZ	Ave	+++++	2093	3820	7520	22409	+++++	0.0400	0.0800	0.160	0.400
			54278	125659	275019	548378	1021701	1.00	2.00	4.00	8.00	16.0

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 50646

SDG No.:

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2021 14:14 Calibration End Date: 06/09/2021 23:44 Calibration ID: 3095

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,2-Dichloropropane	DFBZ	Ave	+++++ 88754	3827 185423	6835 410302	13433 802449	34696 1529110	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Trichloroethene	DFBZ	Ave	2372 83320	3603 174035	6968 403248	12974 788332	32117 1473986	0.0200 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Dibromomethane	DFBZ	Ave	+++++ 81338	4179 169861	6696 386165	13306 764507	30974 1400448	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Bromodichloromethane	DFBZ	Ave	+++++ 128811	5452 275272	9094 629018	18520 1261391	47813 2367011	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
1,4-Dioxane	DFBZ	Ave	+++++ 26189	+++++ 62173	+++++ 131580	3674 255715	10093 466934	+++++ 1.00	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0
Methyl methacrylate	DFBZ	Ave	1690 76158	3038 166371	5199 369494	9864 742441	27659 1397016	0.0200 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Methylcyclohexane	DFBZ	LinF	+++++ 108344	+++++ 235915	6969 525121	14376 1049970	39617 1962781	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
4-Methyl-2-pentanone (MIBK)	DFBZ	Ave	+++++ 144335	5930 312326	9892 685140	20763 1384684	54361 2672724	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
cis-1,3-Dichloropropene	DFBZ	Ave	2365 102924	3958 220235	6910 509258	14873 1022539	37256 1896072	0.0200 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
trans-1,3-Dichloropropene	CBZd 5	Ave	+++++ 84600	3368 188531	5461 441867	11466 904806	30862 1672968	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Toluene	CBZd 5	Ave	+++++ 222654	10556 482110	17003 1088536	32300 2181685	85952 4101799	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
1,1,2-Trichloroethane	CBZd 5	Ave	+++++ 76041	3198 159671	5893 353772	12324 703045	29471 1312017	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
2-Hexanone	CBZd 5	Ave	+++++ 72870	+++++ 168180	+++++ 385502	9162 782298	26511 1502743	+++++ 1.00	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0
Octane	CBZd 5	Ave	+++++ 57846	+++++ 126250	3355 287100	7977 580908	20791 1093031	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
C8 Range	DFBZ	Ave	+++++ 617430	+++++ 1307627	+++++ 2852584	87885 5721505	257854 10882293	+++++ 1.00	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 50646

SDG No.:

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2021 14:14 Calibration End Date: 06/09/2021 23:44 Calibration ID: 3095

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dibromochloromethane	CBZd 5	Ave	+++++ 127065	+++++ 299128	9076 717786	17755 1507467	47471 2885679	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
1,2-Dibromoethane	CBZd 5	Ave	+++++ 126946	5233 273499	9674 643609	18658 1322147	48144 2476203	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Tetrachloroethene	CBZd 5	Ave	2422 86091	3921 185793	6688 427960	13723 857425	33405 1650718	0.0200 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Chlorobenzene	CBZd 5	Ave	+++++ 187825	+++++ 399481	16079 918938	29554 1886355	73635 3570818	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Ethylbenzene	CBZd 5	Ave	+++++ 277967	11786 603211	20221 1384532	40625 2832075	103572 5463252	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
m-Xylene & p-Xylene	CBZd 5	Ave	+++++ 445686	18440 971700	32084 2242767	64559 4624235	166491 8993463	+++++ 2.00	0.0800 4.00	0.160 8.00	0.320 16.0	0.800 32.0
Nonane	CBZd 5	Ave	+++++ 157879	+++++ 343724	8866 779669	20145 1595023	57067 3158556	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
Bromoform	CBZd 5	Ave	3122 140985	4968 342957	8614 907625	16716 2043272	49932 +++++	0.0200 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 +++++
Styrene	CBZd 5	Ave	+++++ 164378	+++++ 371654	10687 879115	20825 1842711	58135 3575900	+++++ 1.00	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
o-Xylene	CBZd 5	Ave	+++++ 232980	9232 502776	17210 1123786	34008 2268843	87786 4410962	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
1,1,2,2-Tetrachloroethane	CBZd 5	Ave	+++++ 179690	7189 389642	12996 887063	26942 1802947	65471 3558153	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0
1,2,3-Trichloropropane	CBZd 5	Ave	+++++ 38767	1391 84024	2629 195711	6023 391270	14605 751799	+++++ 1.00	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 50646

SDG No.:

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2021 14:14 Calibration End Date: 06/09/2021 23:44 Calibration ID: 3095

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Isopropylbenzene	CBZd 5	Ave	+++++	12828	22871	45213	115048	+++++	0.0400	0.0800	0.160	0.400
			313926	693098	1613524	3299043	6513917	1.00	2.00	4.00	8.00	16.0
Propylbenzene	CBZd 5	Ave	+++++	+++++	5819	11286	29775	+++++	+++++	0.0800	0.160	0.400
			84715	188697	442172	911691	1814127	1.00	2.00	4.00	8.00	16.0
2-Chlorotoluene	CBZd 5	Ave	+++++	3529	6778	12472	30320	+++++	0.0400	0.0800	0.160	0.400
			83521	180877	415626	843585	1651364	1.00	2.00	4.00	8.00	16.0
4-Ethyltoluene	CBZd 5	Ave	+++++	12689	21849	46362	120516	+++++	0.0400	0.0800	0.160	0.400
			325886	722143	1669396	3488504	6935222	1.00	2.00	4.00	8.00	16.0
1,3,5-Trimethylbenzene	CBZd 5	Ave	+++++	4925	9054	17816	48183	+++++	0.0400	0.0800	0.160	0.400
			125329	284184	655900	1362969	2691573	1.00	2.00	4.00	8.00	16.0
Alpha Methyl Styrene	CBZd 5	Ave	+++++	+++++	+++++	14604	39760	+++++	+++++	+++++	0.160	0.400
			121344	292054	702032	1494027	3044667	1.00	2.00	4.00	8.00	16.0
Decane	CBZd 5	Ave	+++++	7162	13697	30034	81085	+++++	0.0400	0.0800	0.160	0.400
			220553	469544	1074614	2193072	4202714	1.00	2.00	4.00	8.00	16.0
tert-Butylbenzene	CBZd 5	Ave	+++++	11184	20716	41958	105574	+++++	0.0400	0.0800	0.160	0.400
			287973	634346	1503616	3164566	6218364	1.00	2.00	4.00	8.00	16.0
1,2,4-Trimethylbenzene	CBZd 5	Ave	+++++	10918	19761	42603	104625	+++++	0.0400	0.0800	0.160	0.400
			291783	640766	1495155	3146680	6131272	1.00	2.00	4.00	8.00	16.0
sec-Butylbenzene	CBZd 5	Ave	10092	15728	29582	60064	149859	0.0200	0.0400	0.0800	0.160	0.400
			413677	915453	2151530	4571366	8974833	1.00	2.00	4.00	8.00	16.0
1,3-Dichlorobenzene	CBZd 5	Ave	+++++	10032	16942	31314	76440	+++++	0.0400	0.0800	0.160	0.400
			201820	454199	1099993	2335501	4694270	1.00	2.00	4.00	8.00	16.0
Benzyl chloride	CBZd 5	Ave	+++++	+++++	12588	23729	66489	+++++	+++++	0.0800	0.160	0.400
			193602	448531	1092633	2398739	4930091	1.00	2.00	4.00	8.00	16.0

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 50646

SDG No.:

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2021 14:14 Calibration End Date: 06/09/2021 23:44 Calibration ID: 3095

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,4-Dichlorobenzene	CBZd 5	Ave	+++++	9899	16708	30618	73379	+++++	0.0400	0.0800	0.160	0.400
			197720	448040	1083447	2344474	4698809	1.00	2.00	4.00	8.00	16.0
4-Isopropyltoluene	CBZd 5	Ave	+++++	+++++	22505	46195	118416	+++++	+++++	0.0800	0.160	0.400
			332001	734694	1727769	3621943	7230272	1.00	2.00	4.00	8.00	16.0
1,2,3-Trimethylbenzene	CBZd 5	Ave	6436	10361	20743	42254	106906	0.0200	0.0400	0.0800	0.160	0.400
			291915	641557	1493023	3072823	6205658	1.00	2.00	4.00	8.00	16.0
Indane	CBZd 5	Ave	6187	10005	19537	39301	100063	0.0200	0.0400	0.0800	0.160	0.400
			277475	620812	1475703	3136511	5976298	1.00	2.00	4.00	8.00	16.0
1,2-Dichlorobenzene	CBZd 5	Ave	+++++	10056	16698	31368	76947	+++++	0.0400	0.0800	0.160	0.400
			204454	460974	1120110	2377188	4590793	1.00	2.00	4.00	8.00	16.0
Butylbenzene	CBZd 5	Ave	+++++	13577	24936	51135	128039	+++++	0.0400	0.0800	0.160	0.400
			348950	775534	1802195	3781662	7035725	1.00	2.00	4.00	8.00	16.0
Indene	CBZd 5	Ave	4915	7630	14341	29642	78710	0.0200	0.0400	0.0800	0.160	0.400
			228821	526667	1263709	2673777	5143323	1.00	2.00	4.00	8.00	16.0
Undecane	CBZd 5	Ave	+++++	8072	16656	33491	82861	+++++	0.0400	0.0800	0.160	0.400
			248510	542785	1236145	2561626	4814856	1.00	2.00	4.00	8.00	16.0
1,2-Dibromo-3-Chloropropane	CBZd 5	Ave	+++++	+++++	6458	11618	29887	+++++	+++++	0.0800	0.160	0.400
			88812	206567	552864	1255531	+++++	1.00	2.00	4.00	8.00	+++++
1,2,4,5-Tetramethylbenzene	CBZd 5	Ave	+++++	+++++	23313	45801	109331	+++++	+++++	0.0800	0.160	0.400
			322072	706367	1683811	3624681	7272050	1.00	2.00	4.00	8.00	16.0
Dodecane	CBZd 5	Ave	+++++	+++++	19406	36210	78658	+++++	+++++	0.0800	0.160	0.400
			269349	526404	1188977	2624232	4857050	1.00	2.00	4.00	8.00	16.0
1,2,4-Trichlorobenzene	CBZd 5	Ave	+++++	+++++	14447	23223	48375	+++++	+++++	0.0800	0.160	0.400
			150127	336706	899617	2066613	4108519	1.00	2.00	4.00	8.00	16.0

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 50646

SDG No.:

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2021 14:14 Calibration End Date: 06/09/2021 23:44 Calibration ID: 3095

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Naphthalene	CBZd5	Lin1F	+++++	23238	32504	51115	109091	+++++	0.0400	0.0800	0.160	0.400
			330620	704835	1793674	4053133	7721679	1.00	2.00	4.00	8.00	16.0
Hexachlorobutadiene	CBZd5	Ave	+++++	13735	23567	43782	86554	+++++	0.0400	0.0800	0.160	0.400
			256135	538903	1220174	2465799	4265409	1.00	2.00	4.00	8.00	16.0
1,2,3-Trichlorobenzene	CBZd5	Ave	+++++	+++++	18608	31908	61526	+++++	+++++	0.0800	0.160	0.400
			179269	364787	853648	1771635	3141798	1.00	2.00	4.00	8.00	16.0
2-Methylnaphthalene	CBZd5	Ave	+++++	+++++	+++++	11419	26046	+++++	+++++	+++++	0.160	0.400
			92056	192754	487142	1218999	1791561	1.00	2.00	4.00	8.00	16.0
1-Methylnaphthalene	CBZd5	Ave	+++++	+++++	+++++	17186	35241	+++++	+++++	+++++	0.160	0.400
			109485	210255	512563	1175966	1553274	1.00	2.00	4.00	8.00	16.0
4-Bromofluorobenzene (Surr)	CBZd5	Ave	668789	620259	595793	588214	620446	4.64	4.64	4.64	4.64	4.64
			645739	687804	775445	780296	727896	4.64	4.64	4.64	4.64	4.64

Curve Type Legend

Ave = Average ISTD
Lin = Linear ISTD
Lin1F = Linear 1/conc ISTD forced zero
LinF = Linear ISTD forced zero

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 50646

SDG No.:

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2021 14:14 Calibration End Date: 06/09/2021 23:44 Calibration ID: 3095

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-50646/9	SF09IC01.D
Level 2	IC 140-50646/10	SF09IC02.D
Level 3	IC 140-50646/11	SF09IC03.D
Level 4	IC 140-50646/12	SF09IC04.D
Level 5	IC 140-50646/13	SF09IC05.D
Level 6	IC 140-50646/14	SF09IC06.D
Level 7	ICIS 140-50646/15	SF09IC07.D
Level 8	IC 140-50646/7	SF09IC08.D
Level 9	IC 140-50646/5	SF09C09.D
Level 10	IC 140-50646/3	SF09IC10.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Chlorodifluoromethane	+++++	11.1						50				
Propene	+++++	+++++	+++++	11.5						50		
Dichlorodifluoromethane	+++++	9.7						50				
Chloromethane	+++++	+++++	20.2						50			
1,2-Dichlorotetrafluoroethane	+++++	8.9						50				
Vinyl chloride	16.4						50					
1,3-Butadiene	+++++	-5.4						50				
Butane	+++++	+++++	-2.3						50			
Bromomethane	+++++	+++++	9.4						50			
Chloroethane	+++++	8.7						50				
Ethanol	+++++	+++++	15.9						50			
Vinyl bromide	+++++	1.9						50				
2-Methylbutane	+++++	+++++	5.2						50			
Trichlorofluoromethane	+++++	5.5						50				

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 50646

SDG No.:

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2021 14:14 Calibration End Date: 06/09/2021 23:44 Calibration ID: 3095

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Acrolein	+++++	+++++	19.5						50			
Acetonitrile	+++++	+++++	+++++	32.5						50		
Acetone	+++++	+++++	+++++	+++++	28.4						80	
Isopropyl alcohol	+++++	5.8						50				
Pentane	+++++	+++++	-10.1						50			
Ethyl ether	+++++	4.5						50				
1,1-Dichloroethene	+++++	9.8						50				
t-Butyl alcohol	+++++	0.5						50				
Acrylonitrile	+++++	+++++	15.7						50			
1,1,2-Trichlorotrifluoroethane	+++++	8.2						50				
Methylene Chloride	+++++	+++++	+++++	27.5						80		
3-Chloropropene	+++++	+++++	-1.7						50			
Carbon disulfide	+++++	+++++	13.4						50			
trans-1,2-Dichloroethene	+++++	-1.8						50				
2-Methylpentane	+++++	4.9						50				
Methyl tert-butyl ether	+++++	-1.8						50				
1,1-Dichloroethane	+++++	16.3						50				
Vinyl acetate	+++++	-8.8						50				
2-Butanone	+++++	+++++	26.3						50			
Hexane	9.2						50					
cis-1,2-Dichloroethene	10.9						50					

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 50646

SDG No.:

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2021 14:14 Calibration End Date: 06/09/2021 23:44 Calibration ID: 3095

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Ethyl acetate	+++++	6.6						50				
Chloroform	+++++	9.2						50				
Tetrahydrofuran	+++++	-4.3						50				
1,1,1-Trichloroethane	+++++	9.8						50				
1,2-Dichloroethane	+++++	+++++	4.8						50			
1-Butanol	+++++	+++++	+++++	+++++	-9.1						50	
Benzene	+++++	12.8						50				
Cyclohexane	+++++	+++++	-8.2						50			
Carbon tetrachloride	12.7						50					
2,3-Dimethylpentane	+++++	-9.1						50				
Thiophene	+++++	-3.3						50				
2,2,4-Trimethylpentane	+++++	-2.0						50				
Heptane	+++++	-8.2						50				
1,2-Dichloropropane	+++++	4.9						50				
Trichloroethene	22.3						50					
Dibromomethane	+++++	19.8						50				
Bromodichloromethane	+++++	2.6						50				
1,4-Dioxane	+++++	+++++	+++++	-11.7						50		
Methyl methacrylate	1.8						50					
Methylcyclohexane	+++++	+++++	-25.0						50			
4-Methyl-2-pentanone (MIBK)	+++++	0.4						50				

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 50646

SDG No.:

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2021 14:14 Calibration End Date: 06/09/2021 23:44 Calibration ID: 3095

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
cis-1,3-Dichloropropene	4.3						50					
trans-1,3-Dichloropropene	+++++	-2.6						50				
Toluene	+++++	13.7						50				
1,1,2-Trichloroethane	+++++	3.2						50				
2-Hexanone	+++++	+++++	+++++	-20.6						50		
Octane	+++++	+++++	-22.8						50			
Dibromochloromethane	+++++	+++++	-14.3						50			
1,2-Dibromoethane	+++++	-1.2						50				
Tetrachloroethene	22.1						50					
Chlorobenzene	+++++	+++++	6.7						50			
Ethylbenzene	+++++	2.4						50				
m-Xylene & p-Xylene	+++++	-0.4						50				
Nonane	+++++	+++++	-25.0						50			
Bromoform	-1.6			+++++			50					
Styrene	+++++	+++++	-17.7						50			
o-Xylene	+++++	-2.5						50				
1,1,2,2-Tetrachloroethane	+++++	-2.6						50				
1,2,3-Trichloropropane	+++++	-11.8						50				
Isopropylbenzene	+++++	-2.2						50				
Propylbenzene	+++++	+++++	-12.8						50			
2-Chlorotoluene	+++++	0.9						50				

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 50646

SDG No.:

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2021 14:14 Calibration End Date: 06/09/2021 23:44 Calibration ID: 3095

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
4-Ethyltoluene	+++++	-6.1						50				
1,3,5-Trimethylbenzene	+++++	-7.1						50				
Alpha Methyl Styrene	+++++	+++++	+++++	-28.4						50		
Decane	+++++	-16.5						50				
tert-Butylbenzene	+++++	-7.7						50				
1,2,4-Trimethylbenzene	+++++	-9.3						50				
sec-Butylbenzene	8.5						50					
1,3-Dichlorobenzene	+++++	9.4						50				
Benzyl chloride	+++++	+++++	-21.3						50			
1,4-Dichlorobenzene	+++++	9.4						50				
4-Isopropyltoluene	+++++	+++++	-14.7						50			
1,2,3-Trimethylbenzene	0.7						50					
Indane	0.5						50					
1,2-Dichlorobenzene	+++++	9.2						50				
Butylbenzene	+++++	-6.5						50				
Indene	-1.7						50					
Undecane	+++++	-17.2						50				
1,2-Dibromo-3-Chloropropane	+++++	+++++	-12.5	+++++					50			
1,2,4,5-Tetramethylbenzene	+++++	+++++	-10.1						50			
Dodecane	+++++	+++++	0.0						50			
1,2,4-Trichlorobenzene	+++++	+++++	5.9						50			

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1 Analy Batch No.: 50646

SDG No.:

Instrument ID: MS GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2021 14:14 Calibration End Date: 06/09/2021 23:44 Calibration ID: 3095

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Naphthalene	+++++	36.0						80				
Hexachlorobutadiene	+++++	25.5						50				
1,2,3-Trichlorobenzene	+++++	+++++	28.2						50			
2-Methylnaphthalene	+++++	+++++	+++++	-20.4						80		
1-Methylnaphthalene	+++++	+++++	+++++	7.8						80		

Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC10.D
Lims ID: IC L10
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 09-Jun-2021 14:14:30 ALS Bottle#: 4 Worklist Smp#: 3
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019525-003
Misc. Info.: 387533
Operator ID: HMT Instrument ID: MS
Sublist: chrom-MS_TO15A*sub1

Method: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\MS_TO15A.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 10-Jun-2021 10:12:03 Calib Date: 09-Jun-2021 23:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1623

First Level Reviewer: tajh Date: 09-Jun-2021 15:24:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.244	9.225	0.019	98	220902	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.412	11.403	0.009	94	1062554	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	16.076	16.071	0.005	85	959637	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.717	17.713	0.004	97	727896	4.64	4.91	
6 Chlorodifluoromethane	51	3.822	3.810	0.012	95	1822300	16.0	14.6	
7 Propene	41	3.832	3.823	0.009	98	782704	16.0	14.8	
8 Dichlorodifluoromethane	85	3.886	3.878	0.008	99	2533605	16.0	14.5	
9 Chloromethane	52	4.085	4.074	0.011	98	353376	16.0	13.6	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.091	4.080	0.011	88	2385751	16.0	14.7	
11 Acetaldehyde	44	4.247	4.240	0.007	87	2080989	80.0	57.2	
12 Vinyl chloride	62	4.268	4.258	0.010	98	1212332	16.0	14.7	
13 Butadiene	54	4.365	4.352	0.013	71	928814	16.0	16.1	
14 Butane	43	4.365	4.354	0.011	85	1500147	16.0	15.9	
15 Bromomethane	94	4.715	4.702	0.013	99	1044018	16.0	15.1	
16 Chloroethane	64	4.865	4.856	0.009	95	435044	16.0	15.6	
17 Ethanol	31	4.967	4.946	0.021	88	1554519	80.0	78.5	
18 Vinyl bromide	106	5.193	5.180	0.013	99	1083407	16.0	15.4	
19 2-Methylbutane	43	5.242	5.230	0.012	91	1193639	16.0	15.4	
20 Trichlorofluoromethane	101	5.479	5.468	0.011	99	2579002	16.0	14.9	
21 Acrolein	56	5.484	5.476	0.008	88	374239	16.0	15.1	
22 Acetonitrile	40	5.559	5.564	-0.005	100	406345	16.0	14.6	
23 Acetone	58	5.602	5.597	0.005	96	1517915	48.0	48.3	
24 Isopropyl alcohol	45	5.699	5.685	0.014	96	4047438	48.0	46.3	
25 Pentane	72	5.715	5.703	0.012	94	109163	16.0	15.1	
26 Ethyl ether	31	5.877	5.877	0.000	93	917584	16.0	15.5	
27 1,1-Dichloroethene	96	6.232	6.219	0.013	94	940251	16.0	14.9	
29 2-Methyl-2-propanol	59	6.323	6.320	0.003	92	1831629	16.0	15.5	
28 Acrylonitrile	53	6.345	6.327	0.018	95	838309	16.0	15.0	
30 112TCTFE	101	6.415	6.401	0.014	97	2252178	16.0	15.2	
31 Methylene Chloride	84	6.603	6.588	0.015	98	874066	16.0	14.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.614	6.601	0.013	93	709825	16.0	15.2	
33 Carbon disulfide	76	6.770	6.762	0.008	98	2857354	16.0	14.9	
34 trans-1,2-Dichloroethene	96	7.442	7.433	0.009	95	976643	16.0	15.7	
35 2-Methylpentane	43	7.458	7.446	0.012	95	2333132	16.0	15.7	
36 Methyl tert-butyl ether	73	7.550	7.558	-0.008	97	2444231	16.0	15.7	
37 1,1-Dichloroethane	63	7.883	7.870	0.013	99	2004074	16.0	14.8	
38 Vinyl acetate	43	7.980	7.970	0.010	100	2612790	16.0	18.4	
39 2-Butanone (MEK)	72	8.432	8.432	0.000	97	455861	16.0	14.4	
40 Hexane	56	8.470	8.458	0.012	89	846787	16.0	15.6	
41 Isopropyl ether	45	8.615	8.617	-0.002	98	3632685	16.0	16.4	
42 cis-1,2-Dichloroethene	96	8.895	8.883	0.012	98	1021526	16.0	15.6	
43 Ethyl acetate	43	9.061	9.060	0.001	99	2344089	16.0	16.0	
44 Chloroform	83	9.250	9.232	0.018	95	2163975	16.0	15.2	
45 Tert-butyl ethyl ether	59	9.314	9.314	0.000	93	3527670	16.0	16.7	
46 Tetrahydrofuran	42	9.632	9.640	-0.008	96	1145975	16.0	16.5	
47 1,1,1-Trichloroethane	97	10.293	10.285	0.008	97	2052087	16.0	15.8	
48 1,2-Dichloroethane	62	10.406	10.393	0.013	96	1404227	16.0	15.9	
49 n-Butanol	31	10.804	10.814	-0.010	80	338467	16.0	17.7	
51 Benzene	78	10.885	10.874	0.011	97	3279565	16.0	16.3	
50 Cyclohexane	69	10.885	10.874	0.011	89	473996	16.0	17.0	
52 Carbon tetrachloride	117	10.907	10.897	0.010	98	2273516	16.0	17.9	
53 2,3-Dimethylpentane	71	10.993	10.985	0.008	91	647780	16.0	17.1	
54 Thiophene	84	11.159	11.143	0.016	97	1830063	16.0	16.5	
55 Isooctane	57	11.622	11.613	0.009	98	6143404	16.0	17.6	
56 n-Heptane	71	11.988	11.978	0.010	89	1021701	16.0	18.0	
57 1,2-Dichloropropane	63	12.085	12.073	0.012	97	1529110	16.0	16.9	
58 Trichloroethene	130	12.117	12.106	0.011	96	1473986	16.0	16.5	
59 Dibromomethane	93	12.203	12.194	0.009	93	1400448	16.0	16.1	
61 1,4-Dioxane	88	12.337	12.342	-0.005	87	466934	16.0	16.9	
60 Dichlorobromomethane	83	12.343	12.334	0.009	99	2367011	16.0	17.9	
62 Methyl methacrylate	41	12.413	12.411	0.002	95	1397016	16.0	18.2	
63 Methylcyclohexane	83	12.870	12.865	0.005	95	1962781	16.0	16.2	
64 4-Methyl-2-pentanone (MIBK)	43	13.252	13.254	-0.002	95	2672724	16.0	18.2	
65 cis-1,3-Dichloropropene	75	13.322	13.319	0.003	92	1896072	16.0	18.1	
66 trans-1,3-Dichloropropene	75	14.005	14.001	0.004	97	1672968	16.0	18.2	
67 Toluene	91	14.134	14.126	0.008	92	4101799	16.0	16.6	
68 1,1,2-Trichloroethane	83	14.204	14.199	0.005	95	1312017	16.0	16.0	
69 2-Hexanone	58	14.565	14.569	-0.004	94	1502743	16.0	18.4	
70 n-Octane	85	14.791	14.786	0.005	92	1093031	16.0	18.0	
71 Chlorodibromomethane	129	14.904	14.897	0.007	97	2885679	16.0	19.5	
72 Ethylene Dibromide	107	15.194	15.187	0.007	99	2476203	16.0	17.6	
73 Tetrachloroethene	129	15.259	15.253	0.006	98	1650718	16.0	16.6	
75 Chlorobenzene	112	16.125	16.119	0.006	97	3570818	16.0	16.9	
74 2,3-Dimethylheptane	43	16.125	16.120	0.005	92	3481464	16.0	14.9	
76 Ethylbenzene	91	16.404	16.400	0.004	98	5463252	16.0	17.9	
77 m-Xylene & p-Xylene	91	16.560	16.559	0.001	97	8993463	32.0	36.6	
78 n-Nonane	57	16.964	16.962	0.002	89	3158556	16.0	19.1	
79 Bromoform	173	17.023	17.020	0.003	97	4131709	16.0	26.0	
80 Styrene	104	17.034	17.028	0.006	96	3575900	16.0	19.7	
81 o-Xylene	91	17.093	17.088	0.005	99	4410962	16.0	17.6	
82 1,1,2,2-Tetrachloroethane	83	17.421	17.417	0.004	98	3558153	16.0	18.2	
83 1,2,3-Trichloropropane	110	17.583	17.580	0.003	98	751799	16.0	18.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Isopropylbenzene	105	17.685	17.679	0.006	95	6513917	16.0	18.7	
85 N-Propylbenzene	120	18.217	18.212	0.005	99	1814127	16.0	19.4	
86 2-Chlorotoluene	126	18.266	18.261	0.005	97	1651364	16.0	17.8	
87 4-Ethyltoluene	105	18.363	18.359	0.004	99	6935222	16.0	19.3	
88 1,3,5-Trimethylbenzene	120	18.433	18.430	0.003	92	2691573	16.0	19.1	
89 Alpha Methyl Styrene	118	18.664	18.659	0.005	90	3044667	16.0	21.1	
90 n-Decane	57	18.707	18.702	0.005	86	4202714	16.0	18.5	
91 tert-Butylbenzene	119	18.858	18.853	0.005	92	6218364	16.0	19.3	
92 1,2,4-Trimethylbenzene	105	18.868	18.865	0.003	95	6131272	16.0	19.2	
93 sec-Butylbenzene	105	19.121	19.117	0.004	99	8974833	16.0	19.3	
94 1,3-Dichlorobenzene	146	19.143	19.138	0.005	94	4694270	16.0	19.3	
95 Benzyl chloride	91	19.218	19.212	0.006	98	4930091	16.0	22.0	
96 1,4-Dichlorobenzene	146	19.229	19.224	0.005	98	4698809	16.0	19.6	
97 4-Isopropyltoluene	119	19.283	19.277	0.006	98	7230272	16.0	19.6	
98 1,2,3-Trimethylbenzene	105	19.336	19.333	0.003	98	6205658	16.0	19.4	
99 Butylcyclohexane	83	19.385	19.381	0.004	95	4658609	16.0	18.5	
100 2,3-Dihydroindene	117	19.584	19.579	0.005	94	5976298	16.0	19.4	
101 1,2-Dichlorobenzene	146	19.589	19.582	0.007	99	4590793	16.0	18.8	
102 n-Butylbenzene	91	19.708	19.704	0.004	97	7035725	16.0	18.3	
103 Indene	116	19.713	19.709	0.004	88	5143323	16.0	20.6	
104 Undecane	57	20.003	19.999	0.004	92	4814856	16.0	18.6	
105 1,2-Dibromo-3-Chloropropane	157	20.181	20.176	0.005	90	2570299	16.0	24.9	
106 1,2,4,5-Tetramethylbenzene	119	20.461	20.456	0.005	96	7272050	16.0	20.0	
107 Dodecane	57	21.074	21.073	0.001	94	4857050	16.0	17.9	
108 1,2,4-Trichlorobenzene	180	21.311	21.307	0.004	92	4108519	16.0	21.5	
109 Naphthalene	128	21.456	21.456	0.000	99	7721679	16.0	17.0	
110 Hexachlorobutadiene	225	21.644	21.644	0.000	89	4265409	16.0	14.7	
111 1,2,3-Trichlorobenzene	180	21.709	21.709	0.000	94	3141798	16.0	15.5	
112 2-Methylnaphthalene	142	22.263	22.263	0.000	98	1791561	16.0	17.7	
113 1-Methylnaphthalene	142	22.392	22.388	0.004	99	1553274	16.0	13.8	
A 115 C8 Range	1	14.796	(14.742-14.839)		0	10882293	16.0	17.1	
S 116 Xylenes, Total	100				0		48.0	54.2	
S 117 1,2-Dichloroethene, Total	1				0		32.0	31.3	

QC Flag Legend

Processing Flags

Reagents:

40L10DQP_00025	Amount Added: 200.00	Units: mL	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

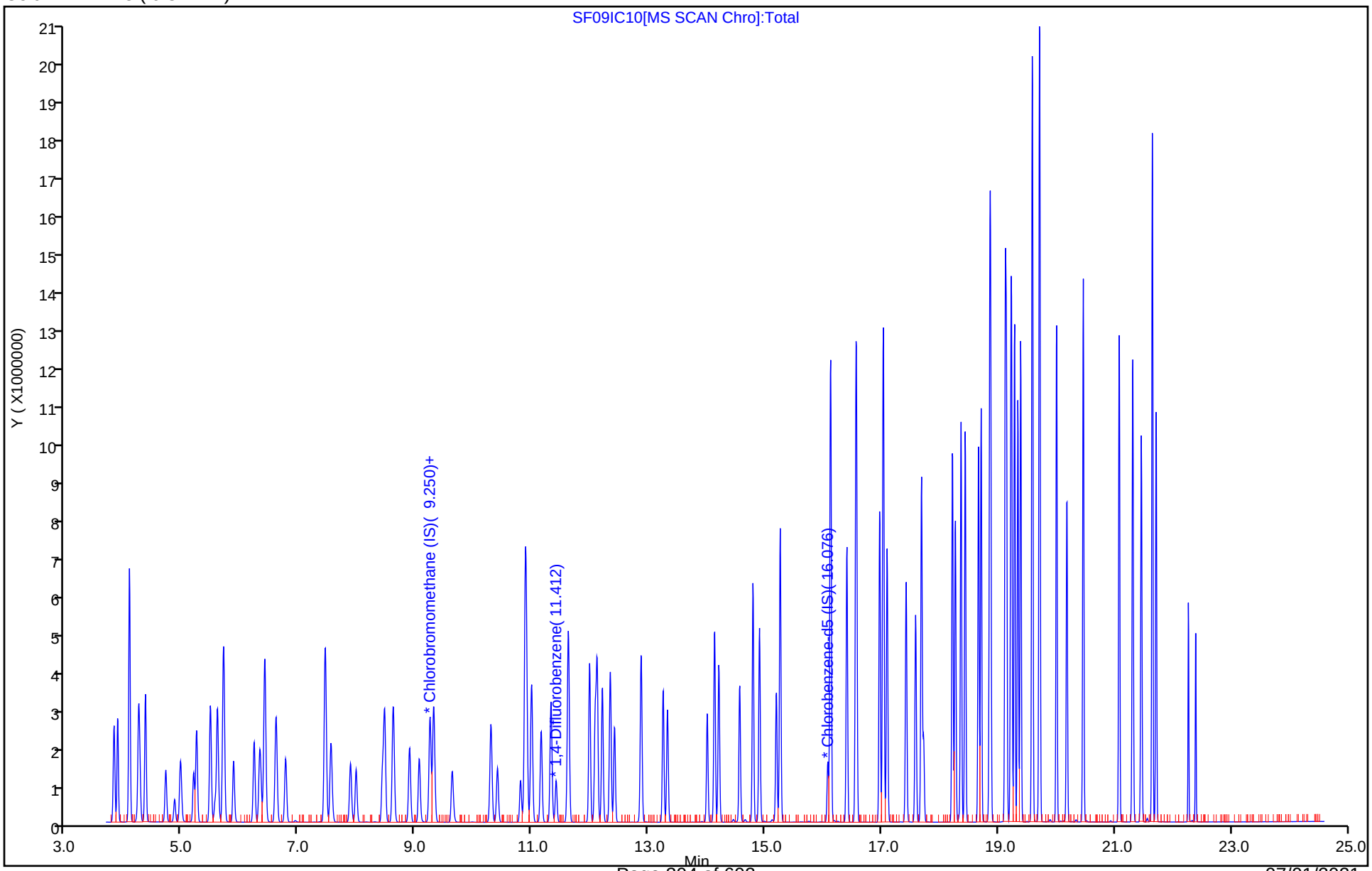
Report Date: 10-Jun-2021 10:12:03 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC10.D

Injection Date:	09-Jun-2021 14:14:30	Instrument ID:	MS	Operator ID:	HMT
Lims ID:	IC L10			Worklist Smp#:	3
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

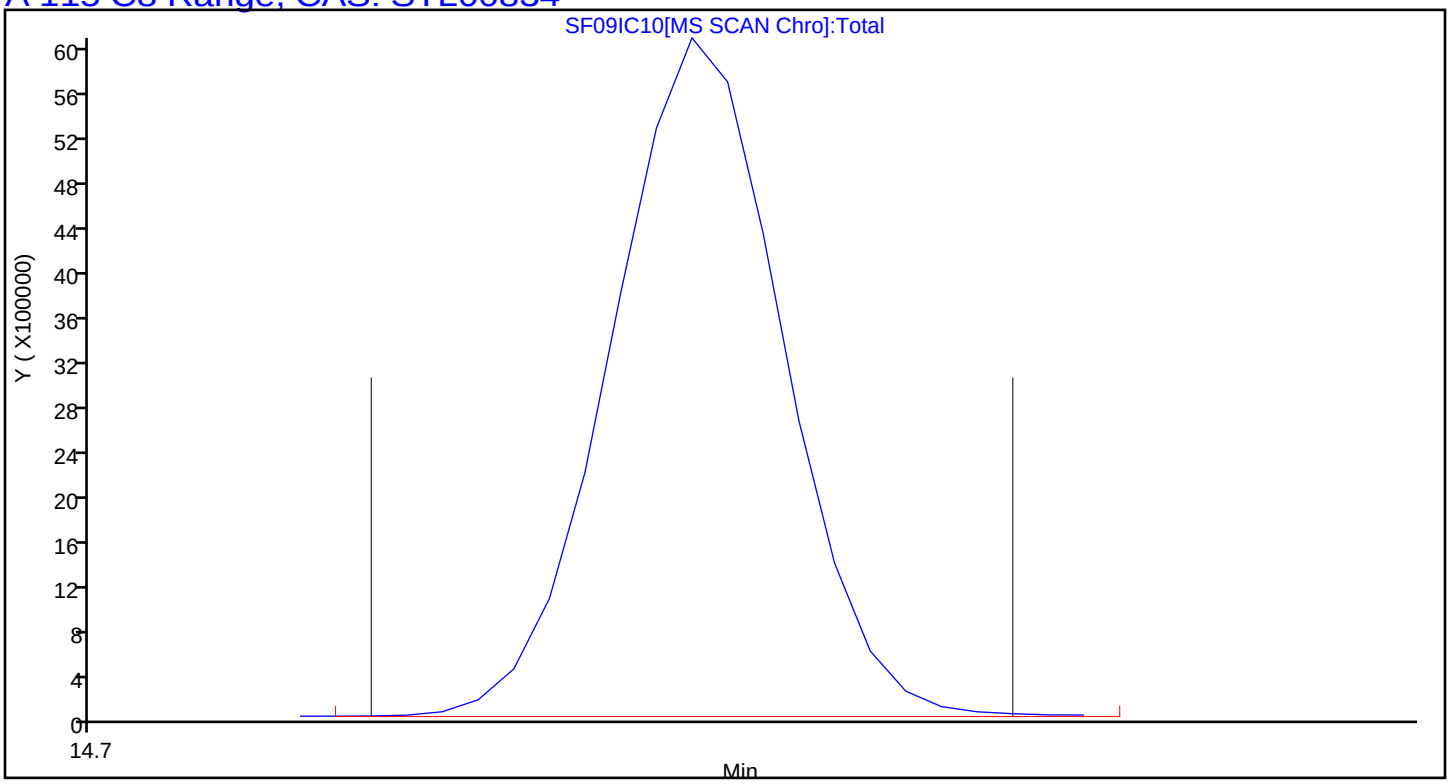


Report Date: 10-Jun-2021 10:12:03 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC10.D				
Injection Date:	09-Jun-2021 14:14:30	Instrument ID:	MS		
Lims ID:	IC L10				
Client ID:					
Operator ID:	HMT	ALS Bottle#:	4	Worklist Smp#:	3
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 115 C8 Range, CAS: STL00834



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09C09.D
Lims ID: IC L9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 09-Jun-2021 15:49:30 ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019525-005
Misc. Info.: 387535
Operator ID: HMT Instrument ID: MS
Sublist: chrom-MS_TO15A*sub1

Method: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\MS_TO15A.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 10-Jun-2021 10:12:08 Calib Date: 09-Jun-2021 23:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1623

First Level Reviewer: tajh Date: 10-Jun-2021 07:21:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.228	9.225	0.003	97	242745	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.407	11.403	0.004	94	1188188	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	16.071	16.071	0.000	85	1052212	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.717	17.713	0.004	97	780296	4.64	4.80	
6 Chlorodifluoromethane	51	3.805	3.810	-0.005	95	1007023	8.00	7.36	
7 Propene	41	3.816	3.823	-0.007	99	430525	8.00	7.39	
8 Dichlorodifluoromethane	85	3.875	3.878	-0.003	100	1454345	8.00	7.57	
9 Chloromethane	52	4.069	4.074	-0.005	98	174414	8.00	6.13	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.080	4.080	0.000	87	1348730	8.00	7.55	
11 Acetaldehyde	44	4.236	4.240	-0.004	87	877436	40.0	22.0	
12 Vinyl chloride	62	4.257	4.258	-0.001	98	575921	8.00	6.35	
14 Butane	43	4.349	4.354	-0.005	84	594391	8.00	5.73	
13 Butadiene	54	4.349	4.352	-0.003	75	390898	8.00	6.17	
15 Bromomethane	94	4.698	4.702	-0.004	99	455783	8.00	6.01	
16 Chloroethane	64	4.849	4.856	-0.007	94	196901	8.00	6.44	
17 Ethanol	31	4.941	4.946	-0.005	89	642875	40.0	29.6	
18 Vinyl bromide	106	5.177	5.180	-0.003	99	573290	8.00	7.44	
19 2-Methylbutane	43	5.231	5.230	0.001	91	651320	8.00	7.66	
20 Trichlorofluoromethane	101	5.468	5.468	0.000	99	1454971	8.00	7.64	
21 Acrolein	56	5.468	5.476	-0.008	88	202026	8.00	7.42	
22 Acetonitrile	40	5.543	5.564	-0.021	99	225200	8.00	7.38	
23 Acetone	58	5.586	5.597	-0.011	96	825623	24.0	23.5	
24 Isopropyl alcohol	45	5.672	5.685	-0.013	96	2222773	24.0	23.2	
25 Pentane	72	5.699	5.703	-0.004	95	59745	8.00	7.53	
26 Ethyl ether	31	5.866	5.877	-0.011	93	496425	8.00	7.64	
27 1,1-Dichloroethene	96	6.221	6.219	0.002	94	523246	8.00	7.54	
29 2-Methyl-2-propanol	59	6.296	6.320	-0.024	93	1019999	8.00	7.85	
28 Acrylonitrile	53	6.323	6.327	-0.004	95	455925	8.00	7.43	
30 112TCTFE	101	6.398	6.401	-0.003	97	1240591	8.00	7.64	
31 Methylene Chloride	84	6.587	6.588	-0.001	99	492101	8.00	7.16	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.597	6.601	-0.004	94	395042	8.00	7.68	
33 Carbon disulfide	76	6.759	6.762	-0.003	98	1585024	8.00	7.50	
34 trans-1,2-Dichloroethene	96	7.431	7.433	-0.002	95	537774	8.00	7.87	
35 2-Methylpentane	43	7.442	7.446	-0.004	95	1244232	8.00	7.64	
36 Methyl tert-butyl ether	73	7.539	7.558	-0.019	97	1371586	8.00	8.03	
37 1,1-Dichloroethane	63	7.867	7.870	-0.003	99	1107152	8.00	7.43	
38 Vinyl acetate	43	7.964	7.970	-0.006	100	1369044	8.00	8.78	
39 2-Butanone (MEK)	72	8.416	8.432	-0.016	98	249406	8.00	7.18	
40 Hexane	56	8.459	8.458	0.001	87	459237	8.00	7.70	
41 Isopropyl ether	45	8.604	8.617	-0.013	99	1935334	8.00	7.96	
42 cis-1,2-Dichloroethene	96	8.884	8.883	0.001	98	562280	8.00	7.83	
43 Ethyl acetate	43	9.051	9.060	-0.009	99	1253181	8.00	7.78	
44 Chloroform	83	9.239	9.232	0.007	95	1187111	8.00	7.57	
45 Tert-butyl ethyl ether	59	9.298	9.314	-0.016	94	1911159	8.00	8.21	
46 Tetrahydrofuran	42	9.621	9.640	-0.019	95	611666	8.00	8.02	
47 1,1,1-Trichloroethane	97	10.282	10.285	-0.003	97	1141088	8.00	7.98	
48 1,2-Dichloroethane	62	10.395	10.393	0.002	97	781784	8.00	7.92	
49 n-Butanol	31	10.788	10.814	-0.026	80	183322	8.00	8.55	
51 Benzene	78	10.874	10.874	0.000	96	1755393	8.00	7.79	
50 Cyclohexane	69	10.874	10.874	0.000	78	259182	8.00	8.29	
52 Carbon tetrachloride	117	10.896	10.897	-0.001	97	1317713	8.00	9.26	
53 2,3-Dimethylpentane	71	10.982	10.985	-0.003	93	354223	8.00	8.37	
54 Thiophene	84	11.143	11.143	0.000	97	999264	8.00	8.08	
55 Isooctane	57	11.611	11.613	-0.002	98	3225422	8.00	8.25	
56 n-Heptane	71	11.977	11.978	-0.001	89	548378	8.00	8.65	
57 1,2-Dichloropropane	63	12.074	12.073	0.001	97	802449	8.00	7.91	
58 Trichloroethene	130	12.106	12.106	0.000	96	788332	8.00	7.88	
59 Dibromomethane	93	12.198	12.194	0.004	93	764507	8.00	7.88	
61 1,4-Dioxane	88	12.332	12.342	-0.010	88	255715	8.00	8.28	
60 Dichlorobromomethane	83	12.337	12.334	0.003	99	1261391	8.00	8.54	
62 Methyl methacrylate	41	12.407	12.411	-0.004	96	742441	8.00	8.67	
63 Methylcyclohexane	83	12.865	12.865	0.000	95	1049970	8.00	7.75	
64 4-Methyl-2-pentanone (MIBK)	43	13.241	13.254	-0.013	95	1384684	8.00	8.43	
65 cis-1,3-Dichloropropene	75	13.317	13.319	-0.002	92	1022539	8.00	8.74	
66 trans-1,3-Dichloropropene	75	14.000	14.001	-0.001	97	904806	8.00	8.99	
67 Toluene	91	14.129	14.126	0.003	92	2181685	8.00	8.08	
68 1,1,2-Trichloroethane	83	14.199	14.199	0.000	95	703045	8.00	7.80	
69 2-Hexanone	58	14.559	14.569	-0.010	94	782298	8.00	8.74	
70 n-Octane	85	14.791	14.786	0.005	92	580908	8.00	8.72	
71 Chlorodibromomethane	129	14.898	14.897	0.001	98	1507467	8.00	9.28	
72 Ethylene Dibromide	107	15.189	15.187	0.002	98	1322147	8.00	8.58	
73 Tetrachloroethene	129	15.253	15.253	0.000	98	857425	8.00	7.88	
75 Chlorobenzene	112	16.119	16.119	0.000	92	1886355	8.00	8.16	
74 2,3-Dimethylheptane	43	16.119	16.120	-0.001	95	2008281	8.00	7.86	
76 Ethylbenzene	91	16.399	16.400	-0.001	98	2832075	8.00	8.46	
77 m-Xylene & p-Xylene	91	16.560	16.559	0.001	97	4624235	16.0	17.2	
78 n-Nonane	57	16.964	16.962	0.002	90	1595023	8.00	8.80	
79 Bromoform	173	17.023	17.020	0.003	98	2043272	8.00	11.7	
80 Styrene	104	17.028	17.028	0.000	97	1842711	8.00	9.25	
81 o-Xylene	91	17.088	17.088	0.000	99	2268843	8.00	8.24	
82 1,1,2,2-Tetrachloroethane	83	17.416	17.417	-0.001	98	1802947	8.00	8.40	
83 1,2,3-Trichloropropane	110	17.577	17.580	-0.003	98	391270	8.00	8.53	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Isopropylbenzene	105	17.679	17.679	0.000	95	3299043	8.00	8.64	
85 N-Propylbenzene	120	18.212	18.212	0.000	99	911691	8.00	8.90	
86 2-Chlorotoluene	126	18.260	18.261	-0.001	97	843585	8.00	8.29	
87 4-Ethyltoluene	105	18.357	18.359	-0.002	99	3488504	8.00	8.88	
88 1,3,5-Trimethylbenzene	120	18.433	18.430	0.002	92	1362969	8.00	8.83	
89 Alpha Methyl Styrene	118	18.658	18.659	-0.001	90	1494027	8.00	9.44	
90 n-Decane	57	18.701	18.702	-0.001	86	2193072	8.00	8.79	
91 tert-Butylbenzene	119	18.852	18.853	-0.001	91	3164566	8.00	8.98	
92 1,2,4-Trimethylbenzene	105	18.868	18.865	0.003	96	3146680	8.00	8.99	
93 sec-Butylbenzene	105	19.121	19.117	0.004	99	4571366	8.00	8.97	
94 1,3-Dichlorobenzene	146	19.137	19.138	-0.001	96	2335501	8.00	8.75	
95 Benzyl chloride	91	19.213	19.212	0.001	98	2398739	8.00	9.77	
96 1,4-Dichlorobenzene	146	19.229	19.224	0.005	97	2344474	8.00	8.91	
97 4-Isopropyltoluene	119	19.277	19.277	0.000	98	3621943	8.00	8.95	
98 1,2,3-Trimethylbenzene	105	19.336	19.333	0.003	98	3072823	8.00	8.77	
99 Butylcyclohexane	83	19.385	19.381	0.004	95	2388067	8.00	8.64	
100 2,3-Dihydroindene	117	19.584	19.579	0.005	94	3136511	8.00	9.29	
101 1,2-Dichlorobenzene	146	19.584	19.582	0.002	99	2377188	8.00	8.88	
102 n-Butylbenzene	91	19.707	19.704	0.003	96	3781662	8.00	8.95	
103 Indene	116	19.707	19.709	-0.002	89	2673777	8.00	9.75	
104 Undecane	57	19.998	19.999	-0.001	92	2561626	8.00	9.04	
105 1,2-Dibromo-3-Chloropropane	157	20.175	20.176	-0.001	93	1255531	8.00	11.1	
106 1,2,4,5-Tetramethylbenzene	119	20.461	20.456	0.005	97	3624681	8.00	9.11	
107 Dodecane	57	21.074	21.073	0.001	95	2624232	8.00	8.82	
108 1,2,4-Trichlorobenzene	180	21.305	21.307	-0.002	93	2066613	8.00	9.87	
109 Naphthalene	128	21.456	21.456	0.000	100	4053133	8.00	8.16	
110 Hexachlorobutadiene	225	21.644	21.644	0.000	90	2465799	8.00	7.74	
111 1,2,3-Trichlorobenzene	180	21.709	21.709	0.000	94	1771635	8.00	7.96	
112 2-Methylnaphthalene	142	22.263	22.263	0.000	98	1218999	8.00	11.0	
113 1-Methylnaphthalene	142	22.386	22.388	-0.002	98	1175966	8.00	9.51	
A 115 C8 Range	1	14.790	(14.742-14.839)		0	5721505	8.00	8.06	
S 116 Xylenes, Total	100				0		24.0	25.4	
S 117 1,2-Dichloroethene, Total	1				0		16.0	15.7	

QC Flag Legend

Processing Flags

Reagents:

40L9DQP_00025	Amount Added: 200.00	Units: mL	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

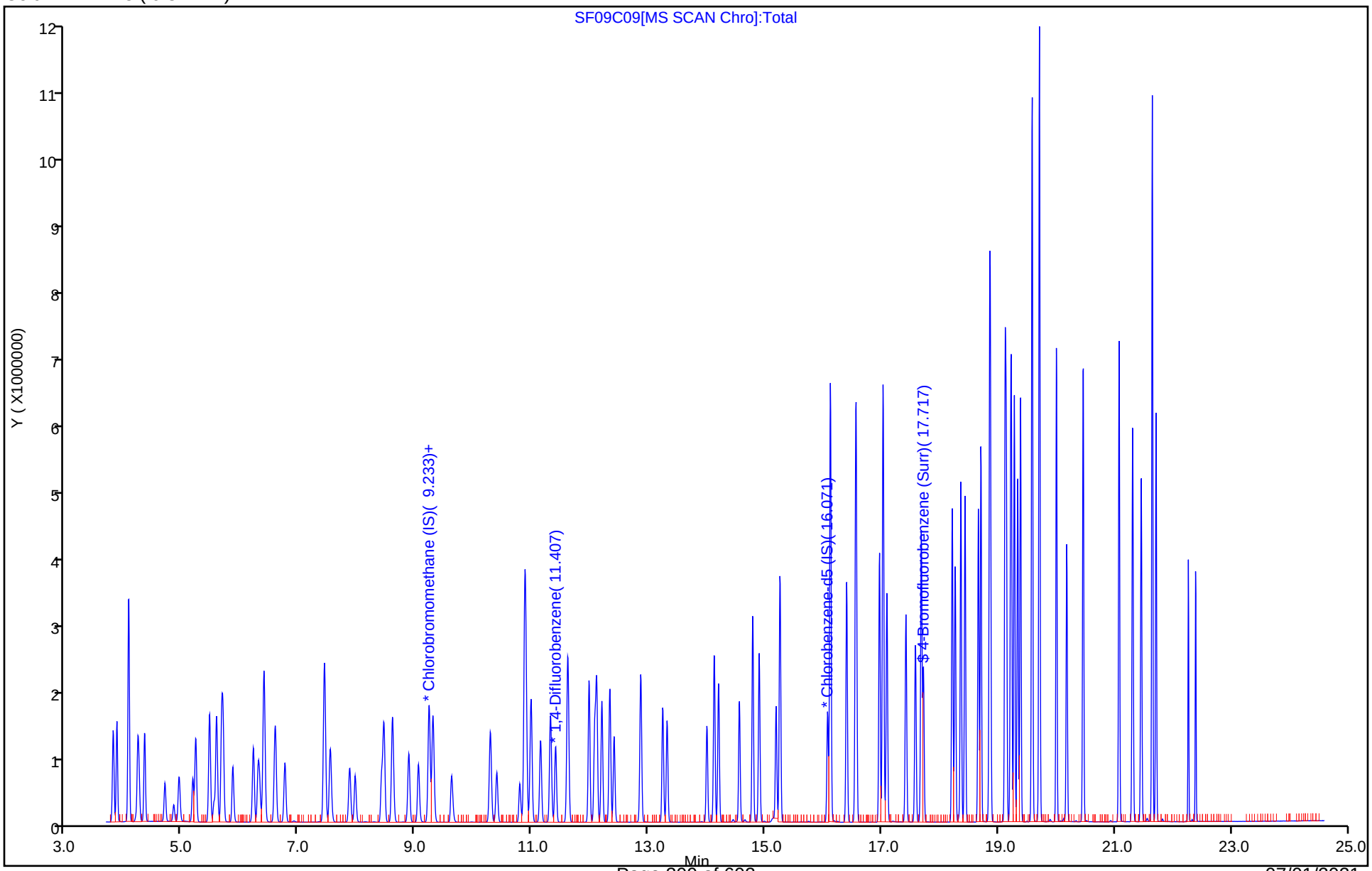
Report Date: 10-Jun-2021 10:12:09 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09C09.D

Injection Date:	09-Jun-2021 15:49:30	Instrument ID:	MS	Operator ID:	HMT
Lims ID:	IC L9			Worklist Smp#:	5
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

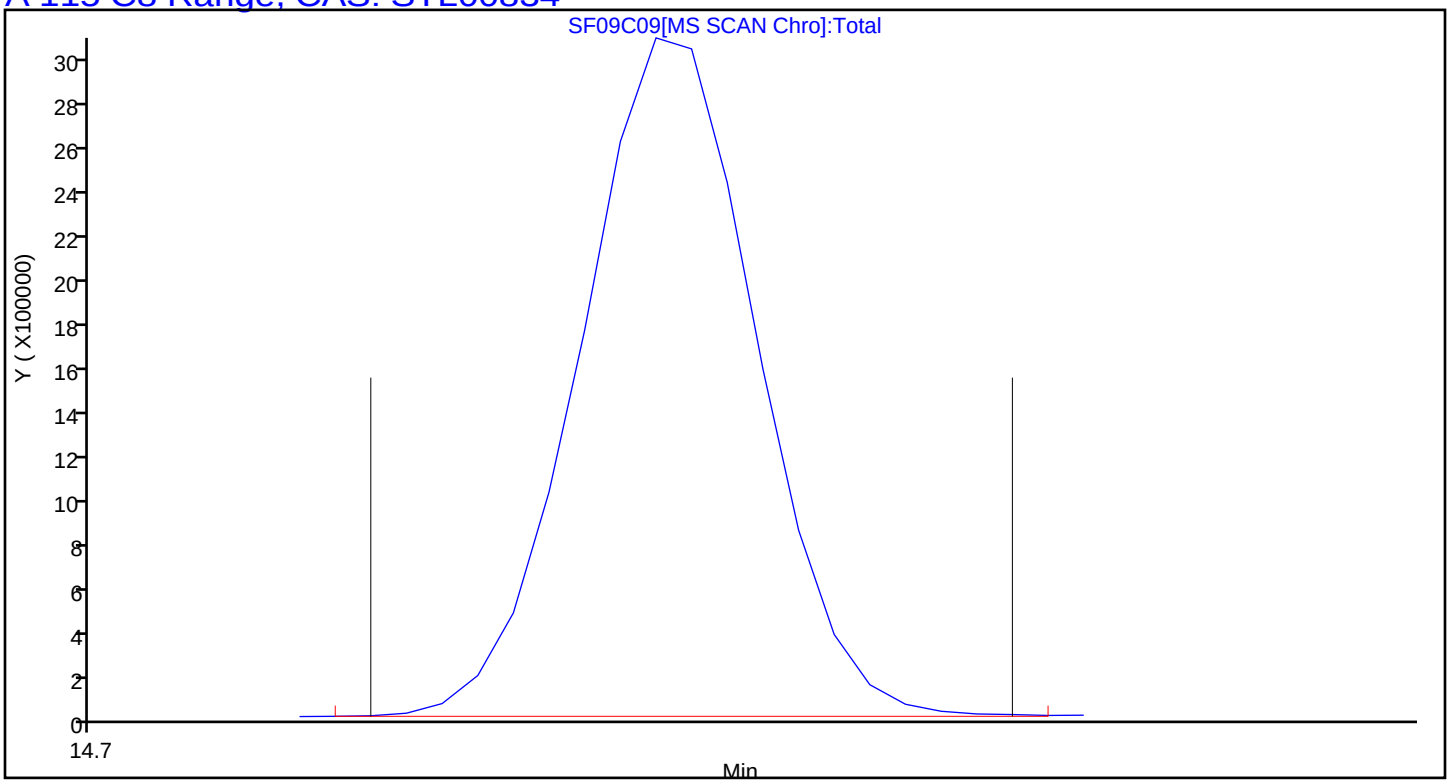


Report Date: 10-Jun-2021 10:12:09 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09C09.D				
Injection Date:	09-Jun-2021 15:49:30	Instrument ID:	MS		
Lims ID:	IC L9				
Client ID:					
Operator ID:	HMT	ALS Bottle#:	6	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 115 C8 Range, CAS: STL00834



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC08.D
Lims ID: IC L8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 09-Jun-2021 17:23:30 ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019525-007
Misc. Info.: 387536
Operator ID: HMT Instrument ID: MS
Sublist: chrom-MS_TO15A*sub1

Method: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\MS_TO15A.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 10-Jun-2021 10:12:13 Calib Date: 09-Jun-2021 23:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1623

First Level Reviewer: tajh Date: 10-Jun-2021 07:22:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.223	9.225	-0.002	97	248836	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.401	11.403	-0.002	94	1213744	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	16.071	16.071	0.000	85	1060151	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.712	17.713	-0.001	97	775445	4.64	4.74	
6 Chlorodifluoromethane	51	3.805	3.810	-0.005	96	513977	4.00	3.66	
7 Propene	41	3.816	3.823	-0.007	99	221790	4.00	3.71	
8 Dichlorodifluoromethane	85	3.875	3.878	-0.003	100	767017	4.00	3.90	
9 Chloromethane	52	4.074	4.074	0.000	99	86996	4.00	2.98	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.080	4.080	0.000	86	686603	4.00	3.75	
11 Acetaldehyde	44	4.236	4.240	-0.004	87	417788	20.0	10.2	
12 Vinyl chloride	62	4.257	4.258	-0.001	98	276159	4.00	2.97	
14 Butane	43	4.349	4.354	-0.005	84	274992	4.00	2.59	
13 Butadiene	54	4.349	4.352	-0.003	74	184237	4.00	2.84	
15 Bromomethane	94	4.698	4.702	-0.004	99	250964	4.00	3.23	
16 Chloroethane	64	4.849	4.856	-0.007	94	97208	4.00	3.10	
17 Ethanol	31	4.935	4.946	-0.011	90	325999	20.0	14.6	
18 Vinyl bromide	106	5.177	5.180	-0.003	99	297670	4.00	3.77	
19 2-Methylbutane	43	5.226	5.230	-0.004	91	334005	4.00	3.83	
21 Acrolein	56	5.473	5.476	-0.003	88	100804	4.00	3.61	
20 Trichlorofluoromethane	101	5.462	5.468	-0.006	99	758913	4.00	3.89	
22 Acetonitrile	40	5.543	5.564	-0.021	99	115623	4.00	3.70	
23 Acetone	58	5.586	5.597	-0.011	96	435176	12.0	11.7	
24 Isopropyl alcohol	45	5.667	5.685	-0.018	94	1138746	12.0	11.6	
25 Pentane	72	5.699	5.703	-0.004	95	32659	4.00	4.01	
26 Ethyl ether	31	5.866	5.877	-0.011	93	251657	4.00	3.78	
27 1,1-Dichloroethene	96	6.215	6.219	-0.004	94	271402	4.00	3.82	
29 2-Methyl-2-propanol	59	6.296	6.320	-0.024	93	529279	4.00	3.97	
28 Acrylonitrile	53	6.318	6.327	-0.009	96	233872	4.00	3.72	
30 112TCTFE	101	6.398	6.401	-0.003	97	645527	4.00	3.88	
31 Methylene Chloride	84	6.587	6.588	-0.001	99	257913	4.00	3.66	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.603	6.601	0.002	94	200786	4.00	3.81	
33 Carbon disulfide	76	6.759	6.762	-0.003	98	811041	4.00	3.74	
34 trans-1,2-Dichloroethene	96	7.431	7.433	-0.002	95	276428	4.00	3.95	
35 2-Methylpentane	43	7.442	7.446	-0.004	95	636773	4.00	3.81	
36 Methyl tert-butyl ether	73	7.539	7.558	-0.019	97	699643	4.00	4.00	
37 1,1-Dichloroethane	63	7.867	7.870	-0.003	99	571536	4.00	3.74	
38 Vinyl acetate	43	7.964	7.970	-0.006	100	659116	4.00	4.12	
39 2-Butanone (MEK)	72	8.416	8.432	-0.016	98	128340	4.00	3.60	
40 Hexane	56	8.459	8.458	0.001	86	232171	4.00	3.80	
41 Isopropyl ether	45	8.604	8.617	-0.013	98	974179	4.00	3.91	
42 cis-1,2-Dichloroethene	96	8.884	8.883	0.001	97	285280	4.00	3.88	
43 Ethyl acetate	43	9.050	9.060	-0.010	99	634416	4.00	3.84	
44 Chloroform	83	9.233	9.232	0.001	95	611896	4.00	3.80	
45 Tert-butyl ethyl ether	59	9.298	9.314	-0.016	94	971277	4.00	4.07	
46 Tetrahydrofuran	42	9.615	9.640	-0.025	96	308626	4.00	3.95	
47 1,1,1-Trichloroethane	97	10.282	10.285	-0.003	98	581962	4.00	3.97	
48 1,2-Dichloroethane	62	10.395	10.393	0.002	96	400791	4.00	3.97	
49 n-Butanol	31	10.788	10.814	-0.026	81	90249	4.00	4.12	
51 Benzene	78	10.874	10.874	0.000	97	886345	4.00	3.85	
50 Cyclohexane	69	10.874	10.874	0.000	68	132598	4.00	4.15	
52 Carbon tetrachloride	117	10.896	10.897	-0.001	97	613775	4.00	4.22	
53 2,3-Dimethylpentane	71	10.982	10.985	-0.003	91	183630	4.00	4.25	
54 Thiophene	84	11.143	11.143	0.000	97	507303	4.00	4.01	
55 Isooctane	57	11.611	11.613	-0.002	98	1609448	4.00	4.03	
56 n-Heptane	71	11.977	11.978	-0.001	90	275019	4.00	4.25	
57 1,2-Dichloropropane	63	12.074	12.073	0.001	97	410302	4.00	3.96	
58 Trichloroethene	130	12.106	12.106	0.000	97	403248	4.00	3.94	
59 Dibromomethane	93	12.198	12.194	0.004	94	386165	4.00	3.90	
61 1,4-Dioxane	88	12.332	12.342	-0.010	88	131580	4.00	4.17	
60 Dichlorobromomethane	83	12.332	12.334	-0.002	99	629018	4.00	4.17	
62 Methyl methacrylate	41	12.402	12.411	-0.009	95	369494	4.00	4.22	
63 Methylcyclohexane	83	12.865	12.865	0.000	95	525121	4.00	3.79	
64 4-Methyl-2-pentanone (MIBK)	43	13.241	13.254	-0.013	96	685140	4.00	4.08	
65 cis-1,3-Dichloropropene	75	13.316	13.319	-0.003	92	509258	4.00	4.26	
66 trans-1,3-Dichloropropene	75	14.000	14.001	-0.001	97	441867	4.00	4.36	
67 Toluene	91	14.123	14.126	-0.003	92	1088536	4.00	4.00	
68 1,1,2-Trichloroethane	83	14.199	14.199	0.000	95	353772	4.00	3.89	
69 2-Hexanone	58	14.559	14.569	-0.010	94	385502	4.00	4.27	
70 n-Octane	85	14.785	14.786	-0.001	92	287100	4.00	4.28	
71 Chlorodibromomethane	129	14.898	14.897	0.001	98	717786	4.00	4.38	
72 Ethylene Dibromide	107	15.189	15.187	0.002	99	643609	4.00	4.15	
73 Tetrachloroethene	129	15.253	15.253	0.000	99	427960	4.00	3.91	
75 Chlorobenzene	112	16.119	16.119	0.000	91	918938	4.00	3.95	
74 2,3-Dimethylheptane	43	16.119	16.120	-0.001	95	1028636	4.00	3.99	
76 Ethylbenzene	91	16.399	16.400	-0.001	98	1384532	4.00	4.10	
77 m-Xylene & p-Xylene	91	16.555	16.559	-0.004	97	2242767	8.00	8.27	
78 n-Nonane	57	16.958	16.962	-0.004	91	779669	4.00	4.27	
79 Bromoform	173	17.023	17.020	0.003	98	907625	4.00	5.18	
80 Styrene	104	17.028	17.028	0.000	98	879115	4.00	4.38	
81 o-Xylene	91	17.088	17.088	0.000	100	1123786	4.00	4.05	
82 1,1,2,2-Tetrachloroethane	83	17.416	17.417	-0.001	98	887063	4.00	4.10	
83 1,2,3-Trichloropropane	110	17.577	17.580	-0.003	98	195711	4.00	4.23	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Isopropylbenzene	105	17.679	17.679	0.000	95	1613524	4.00	4.20	
85 N-Propylbenzene	120	18.212	18.212	0.000	99	442172	4.00	4.29	
86 2-Chlorotoluene	126	18.260	18.261	-0.001	97	415626	4.00	4.06	
87 4-Ethyltoluene	105	18.357	18.359	-0.002	99	1669396	4.00	4.22	
88 1,3,5-Trimethylbenzene	120	18.432	18.430	0.002	92	655900	4.00	4.22	
89 Alpha Methyl Styrene	118	18.658	18.659	-0.001	89	702032	4.00	4.40	
90 n-Decane	57	18.701	18.702	-0.001	87	1074614	4.00	4.28	
91 tert-Butylbenzene	119	18.852	18.853	-0.001	92	1503616	4.00	4.23	
92 1,2,4-Trimethylbenzene	105	18.863	18.865	-0.002	96	1495155	4.00	4.24	
93 sec-Butylbenzene	105	19.116	19.117	-0.001	99	2151530	4.00	4.19	
94 1,3-Dichlorobenzene	146	19.137	19.138	-0.001	96	1099993	4.00	4.09	
95 Benzyl chloride	91	19.212	19.212	0.000	98	1092633	4.00	4.42	
96 1,4-Dichlorobenzene	146	19.223	19.224	-0.001	97	1083447	4.00	4.09	
97 4-Isopropyltoluene	119	19.277	19.277	0.000	97	1727769	4.00	4.24	
98 1,2,3-Trimethylbenzene	105	19.331	19.333	-0.002	98	1493023	4.00	4.23	
99 Butylcyclohexane	83	19.379	19.381	-0.002	94	1167441	4.00	4.19	
100 2,3-Dihydroindene	117	19.578	19.579	-0.001	93	1475703	4.00	4.34	
101 1,2-Dichlorobenzene	146	19.584	19.582	0.002	88	1120110	4.00	4.15	
102 n-Butylbenzene	91	19.702	19.704	-0.002	96	1802195	4.00	4.23	
103 Indene	116	19.707	19.709	-0.002	89	1263709	4.00	4.58	
104 Undecane	57	19.998	19.999	-0.001	93	1236145	4.00	4.33	
105 1,2-Dibromo-3-Chloropropane	157	20.175	20.176	-0.001	94	552864	4.00	4.84	
106 1,2,4,5-Tetramethylbenzene	119	20.455	20.456	-0.001	97	1683811	4.00	4.20	
107 Dodecane	57	21.074	21.073	0.001	95	1188977	4.00	3.96	
108 1,2,4-Trichlorobenzene	180	21.305	21.307	-0.002	93	899617	4.00	4.27	
109 Naphthalene	128	21.456	21.456	0.000	100	1793674	4.00	3.58	
110 Hexachlorobutadiene	225	21.644	21.644	0.000	91	1220174	4.00	3.80	
111 1,2,3-Trichlorobenzene	180	21.709	21.709	0.000	94	853648	4.00	3.81	
112 2-Methylnaphthalene	142	22.263	22.263	0.000	98	487142	4.00	4.35	
113 1-Methylnaphthalene	142	22.386	22.388	-0.002	98	512563	4.00	4.11	
A 115 C8 Range	1	14.790	(14.737-14.834)		0	2852584	4.00	3.93	
S 116 Xylenes, Total	100				0		12.0	12.3	
S 117 1,2-Dichloroethene, Total	1				0		8.00	7.82	

QC Flag Legend

Processing Flags

Reagents:

40L8DQP_00024	Amount Added: 200.00	Units: mL	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

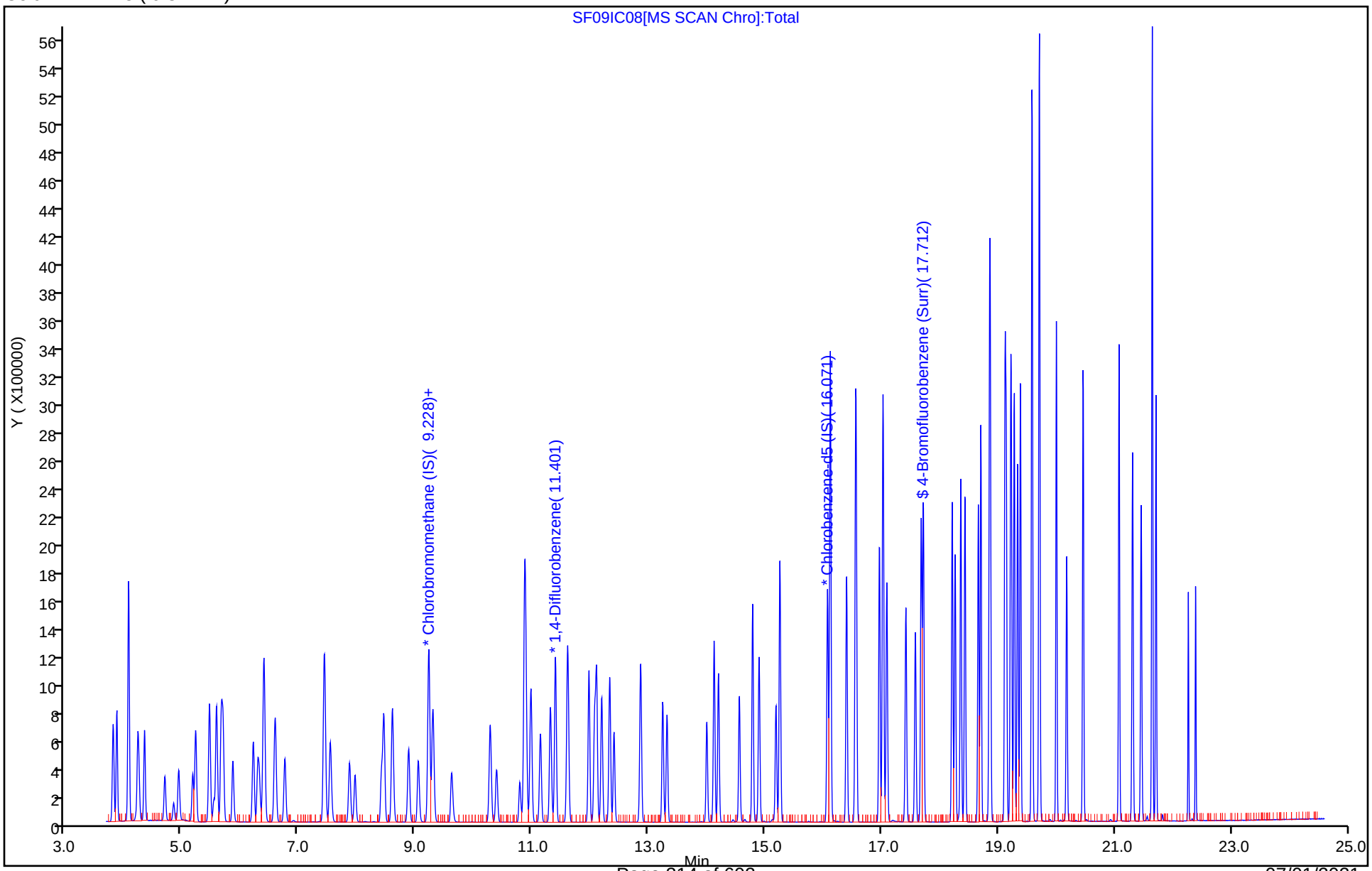
Report Date: 10-Jun-2021 10:12:14 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC08.D

Injection Date:	09-Jun-2021 17:23:30	Instrument ID:	MS	Operator ID:	HMT
Lims ID:	IC L8			Worklist Smp#:	7
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

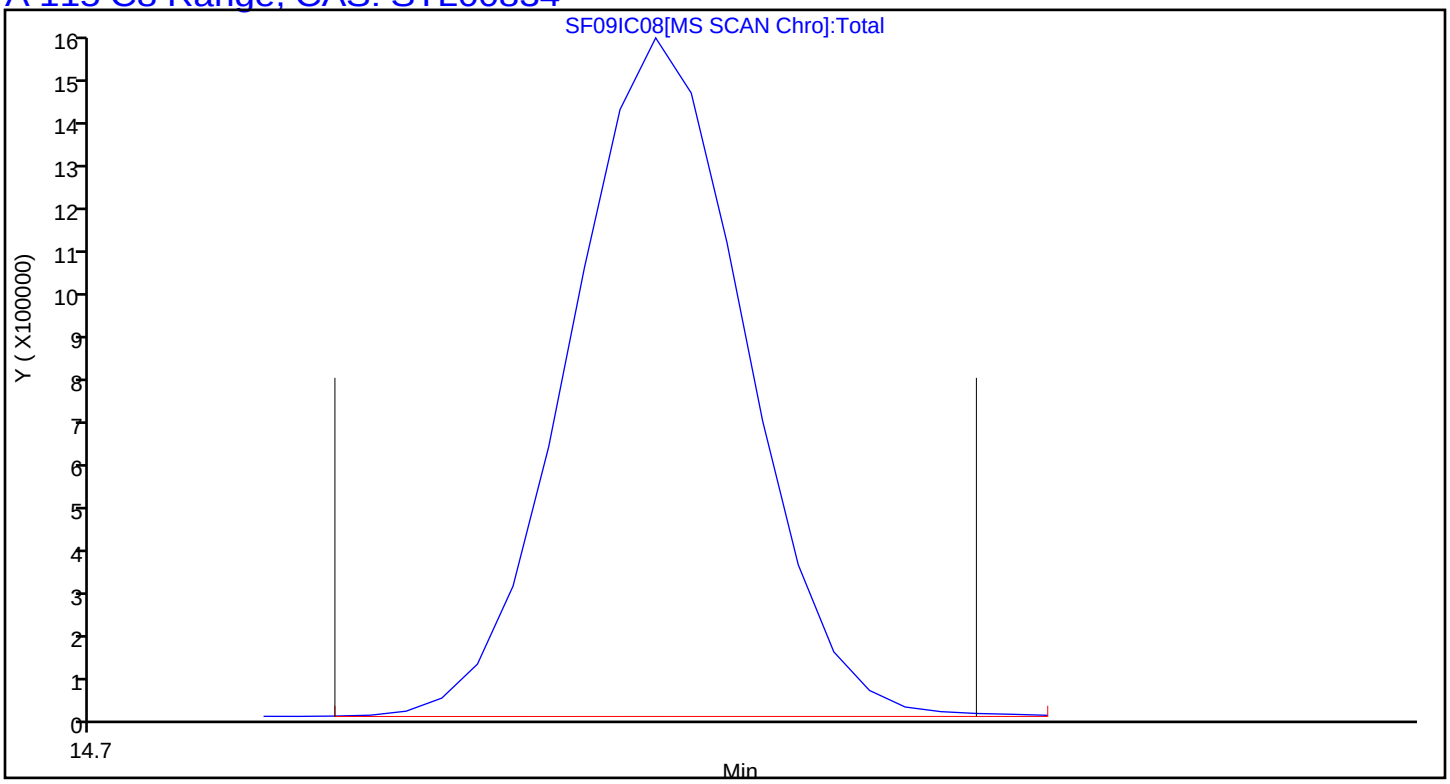


Report Date: 10-Jun-2021 10:12:14 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC08.D				
Injection Date:	09-Jun-2021 17:23:30	Instrument ID:	MS		
Lims ID:	IC L8				
Client ID:					
Operator ID:	HMT	ALS Bottle#:	8	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 115 C8 Range, CAS: STL00834



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC01.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Jun-2021 18:55:30 ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019525-009
Misc. Info.: 387801
Operator ID: HMT Instrument ID: MS
Sublist: chrom-MS_TO15A*sub1

Method: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\MS_TO15A.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 10-Jun-2021 10:12:29 Calib Date: 09-Jun-2021 23:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1623

First Level Reviewer: tajh Date: 10-Jun-2021 07:22:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.223	9.225	-0.002	95	233807	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.396	11.403	-0.007	94	1151515	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	16.071	16.071	0.000	86	959848	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.712	17.713	-0.001	97	668789	4.64	4.51	
6 Chlorodifluoromethane	51	3.805	3.810	-0.005	92	3295	0.0200	0.0250	
7 Propene	41	3.811	3.823	-0.012	67	1664	0.0200	0.0297	
8 Dichlorodifluoromethane	85	3.875	3.878	-0.003	96	4743	0.0200	0.0256	
9 Chloromethane	52	4.074	4.074	0.000	50	655	0.0200	0.0239	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.069	4.080	-0.011	87	4461	0.0200	0.0259	
11 Acetaldehyde	44	4.236	4.240	-0.004	87	5984	0.1000	0.1554	
12 Vinyl chloride	62	4.252	4.258	-0.006	39	2033	0.0200	0.0233	
14 Butane	43	4.343	4.354	-0.011	79	2148	0.0200	0.0215	
13 Butadiene	54	4.338	4.352	-0.014	81	1470	0.0200	0.0241	
15 Bromomethane	94	4.698	4.702	-0.004	93	2733	0.0200	0.0374	
16 Chloroethane	64	4.854	4.856	-0.002	8	766	0.0200	0.0260	
17 Ethanol	31	4.951	4.946	0.005	93	3033	0.1000	0.1448	
18 Vinyl bromide	106	5.172	5.180	-0.008	43	1888	0.0200	0.0254	
19 2-Methylbutane	43	5.215	5.230	-0.015	91	2326	0.0200	0.0284	
20 Trichlorofluoromethane	101	5.468	5.468	0.000	96	4430	0.0200	0.0242	
21 Acrolein	56	5.473	5.476	-0.003	32	602	0.0200	0.0230	
22 Acetonitrile	40	5.688	5.564	0.124	46	303	0.0200	0.0103	
23 Acetone	58	5.602	5.597	0.005	96	5968	0.0600	-0.6478	
24 Isopropyl alcohol	45	5.699	5.685	0.014	80	6640	0.0600	0.0718	
26 Ethyl ether	31	5.882	5.877	0.005	62	1525	0.0200	0.0244	
27 1,1-Dichloroethene	96	6.210	6.219	-0.009	96	1762	0.0200	0.0264	
29 2-Methyl-2-propanol	59	6.339	6.320	0.019	64	3517	0.0200	0.0281	
28 Acrylonitrile	53	6.323	6.327	-0.004	91	2013	0.0200	0.0341	
30 112TCTFE	101	6.393	6.401	-0.008	95	3904	0.0200	0.0250	
31 Methylene Chloride	84	6.581	6.588	-0.007	99	4918	0.0200	0.0743	
32 3-Chloro-1-propene	39	6.597	6.601	-0.004	29	1560	0.0200	0.0315	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 Carbon disulfide	76	6.764	6.762	0.002	95	7556	0.0200	0.0371	
34 trans-1,2-Dichloroethene	96	7.437	7.433	0.004	85	1732	0.0200	0.0263	
35 2-Methylpentane	43	7.442	7.446	-0.004	92	3852	0.0200	0.0246	
36 Methyl tert-butyl ether	73	7.576	7.558	0.018	92	3676	0.0200	0.0223	
37 1,1-Dichloroethane	63	7.867	7.870	-0.003	29	3770	0.0200	0.0263	
38 Vinyl acetate	43	7.975	7.970	0.005	98	3338	0.0200	0.0222	
39 2-Butanone (MEK)	72	8.448	8.432	0.016	89	1126	0.0200	0.0337	
40 Hexane	56	8.453	8.458	-0.005	61	1254	0.0200	0.0218	
41 Isopropyl ether	45	8.642	8.617	0.025	95	5079	0.0200	0.0217	
42 cis-1,2-Dichloroethene	96	8.889	8.883	0.006	89	1533	0.0200	0.0222	
43 Ethyl acetate	43	9.077	9.060	0.017	96	3743	0.0200	0.0241	
44 Chloroform	83	9.223	9.232	-0.009	27	3996	0.0200	0.0264	
45 Tert-butyl ethyl ether	59	9.341	9.314	0.027	97	5074	0.0200	0.0226	
46 Tetrahydrofuran	42	9.675	9.640	0.035	91	1739	0.0200	0.0237	
47 1,1,1-Trichloroethane	97	10.282	10.285	-0.003	86	3626	0.0200	0.0263	
48 1,2-Dichloroethane	62	10.390	10.393	-0.003	90	2559	0.0200	0.0267	
49 n-Butanol	31	10.837	10.814	0.023	48	688	0.0200	0.0331	
51 Benzene	78	10.874	10.874	0.000	96	6460	0.0200	0.0296	
50 Cyclohexane	69	10.869	10.874	-0.005	59	625	0.0200	0.0206	
52 Carbon tetrachloride	117	10.896	10.897	-0.001	78	3109	0.0200	0.0225	
54 Thiophene	84	11.138	11.143	-0.005	88	2930	0.0200	0.0244	
55 Isooctane	57	11.611	11.613	-0.002	97	8479	0.0200	0.0224	
56 n-Heptane	71	11.977	11.978	-0.001	87	1286	0.0200	0.0209	
57 1,2-Dichloropropane	63	12.063	12.073	-0.010	36	2766	0.0200	0.0281	
58 Trichloroethene	130	12.101	12.106	-0.005	90	2372	0.0200	0.0245	
59 Dibromomethane	93	12.192	12.194	-0.002	95	2590	0.0200	0.0276	
60 Dichlorobromomethane	83	12.332	12.334	-0.002	97	3480	0.0200	0.0243	
62 Methyl methacrylate	41	12.413	12.411	0.002	22	1690	0.0200	0.0204	
63 Methylcyclohexane	83	12.870	12.865	0.005	87	2320	0.0200	0.0177	
64 4-Methyl-2-pentanone (MIBK)	43	13.268	13.254	0.014	96	4054	0.0200	0.0255	
65 cis-1,3-Dichloropropene	75	13.322	13.319	0.003	72	2365	0.0200	0.0209	
66 trans-1,3-Dichloropropene	75	14.000	14.001	-0.001	93	2284	0.0200	0.0249	
67 Toluene	91	14.123	14.126	-0.003	93	7517	0.0200	0.0305	
68 1,1,2-Trichloroethane	83	14.204	14.199	0.005	94	2111	0.0200	0.0257	
69 2-Hexanone	58	14.581	14.569	0.012	95	2144	0.0200	0.0263	
70 n-Octane	85	14.780	14.786	-0.006	90	921	0.0200	0.0152	
71 Chlorodibromomethane	129	14.893	14.897	-0.004	93	2854	0.0200	0.0193	
72 Ethylene Dibromide	107	15.183	15.187	-0.004	96	3782	0.0200	0.0269	
73 Tetrachloroethene	129	15.248	15.253	-0.005	95	2422	0.0200	0.0244	
75 Chlorobenzene	112	16.119	16.119	0.000	92	6750	0.0200	0.0320	
74 2,3-Dimethylheptane	43	16.119	16.120	-0.001	85	5325	0.0200	0.0228	
76 Ethylbenzene	91	16.399	16.400	-0.001	97	8201	0.0200	0.0268	
77 m-Xylene & p-Xylene	91	16.560	16.559	0.001	93	11892	0.0400	0.0484	
78 n-Nonane	57	16.958	16.962	-0.004	93	2959	0.0200	0.0179	
79 Bromoform	173	17.018	17.020	-0.002	89	3122	0.0200	0.0197	
80 Styrene	104	17.028	17.028	0.000	92	3521	0.0200	0.0194	
81 o-Xylene	91	17.088	17.088	0.000	98	6851	0.0200	0.0273	
82 1,1,2,2-Tetrachloroethane	83	17.416	17.417	-0.001	96	4900	0.0200	0.0250	
83 1,2,3-Trichloropropane	110	17.583	17.580	0.002	93	1051	0.0200	0.0251	
84 Isopropylbenzene	105	17.679	17.679	0.000	92	8820	0.0200	0.0253	
85 N-Propylbenzene	120	18.212	18.212	0.000	99	1761	0.0200	0.0189	
86 2-Chlorotoluene	126	18.260	18.261	-0.001	97	2533	0.0200	0.0273	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
87 4-Ethyltoluene	105	18.357	18.359	-0.002	97	8583	0.0200	0.0239	
88 1,3,5-Trimethylbenzene	120	18.432	18.430	0.002	92	3251	0.0200	0.0231	
89 Alpha Methyl Styrene	118	18.658	18.659	-0.001	91	2280	0.0200	0.0158	
90 n-Decane	57	18.701	18.702	-0.001	90	4031	0.0200	0.0177	
91 tert-Butylbenzene	119	18.857	18.853	0.004	85	7266	0.0200	0.0226	
92 1,2,4-Trimethylbenzene	105	18.868	18.865	0.003	74	7130	0.0200	0.0223	
93 sec-Butylbenzene	105	19.116	19.117	-0.001	97	10092	0.0200	0.0217	
94 1,3-Dichlorobenzene	146	19.137	19.138	-0.001	93	7676	0.0200	0.0315	
95 Benzyl chloride	91	19.207	19.212	-0.005	96	4653	0.0200	0.0208	
96 1,4-Dichlorobenzene	146	19.223	19.224	-0.001	94	7232	0.0200	0.0301	
97 4-Isopropyltoluene	119	19.272	19.277	-0.005	96	7867	0.0200	0.0213	
98 1,2,3-Trimethylbenzene	105	19.336	19.333	0.003	97	6436	0.0200	0.0201	
99 Butylcyclohexane	83	19.379	19.381	-0.002	90	5036	0.0200	0.0200	
100 2,3-Dihydroindene	117	19.578	19.579	-0.001	86	6187	0.0200	0.0201	
101 1,2-Dichlorobenzene	146	19.578	19.582	-0.004	96	7340	0.0200	0.0300	
102 n-Butylbenzene	91	19.707	19.704	0.003	95	9550	0.0200	0.0248	
103 Indene	116	19.713	19.709	0.004	70	4915	0.0200	0.0197	
104 Undecane	57	19.998	19.999	-0.001	93	4833	0.0200	0.0187	
105 1,2-Dibromo-3-Chloropropane	157	20.175	20.176	-0.001	94	2711	0.0200	0.0262	
106 1,2,4,5-Tetramethylbenzene	119	20.455	20.456	-0.001	98	8977	0.0200	0.0247	
107 Dodecane	57	21.068	21.073	-0.005	91	5160	0.0200	0.0190	
108 1,2,4-Trichlorobenzene	180	21.311	21.307	0.004	91	9294	0.0200	0.0487	
109 Naphthalene	128	21.456	21.456	0.000	99	25646	0.0200	0.0566	
110 Hexachlorobutadiene	225	21.644	21.644	0.000	92	8817	0.0200	0.0304	
111 1,2,3-Trichlorobenzene	180	21.709	21.709	0.000	92	14433	0.0200	0.0711	
112 2-Methylnaphthalene	142	22.263	22.263	0.000	99	7722	0.0200	0.0761	
113 1-Methylnaphthalene	142	22.386	22.388	-0.002	100	11138	0.0200	0.0987	
A 115 C8 Range	1	14.785	(14.753-14.807)		0	12983	0.0200	0.0189	
S 116 Xylenes, Total	100				0		0.0600	0.0757	
S 117 1,2-Dichloroethene, Total	1				0		0.0400	0.0485	

QC Flag Legend

Processing Flags

Reagents:

40L1-3DQP_00042	Amount Added: 50.00	Units: mL	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

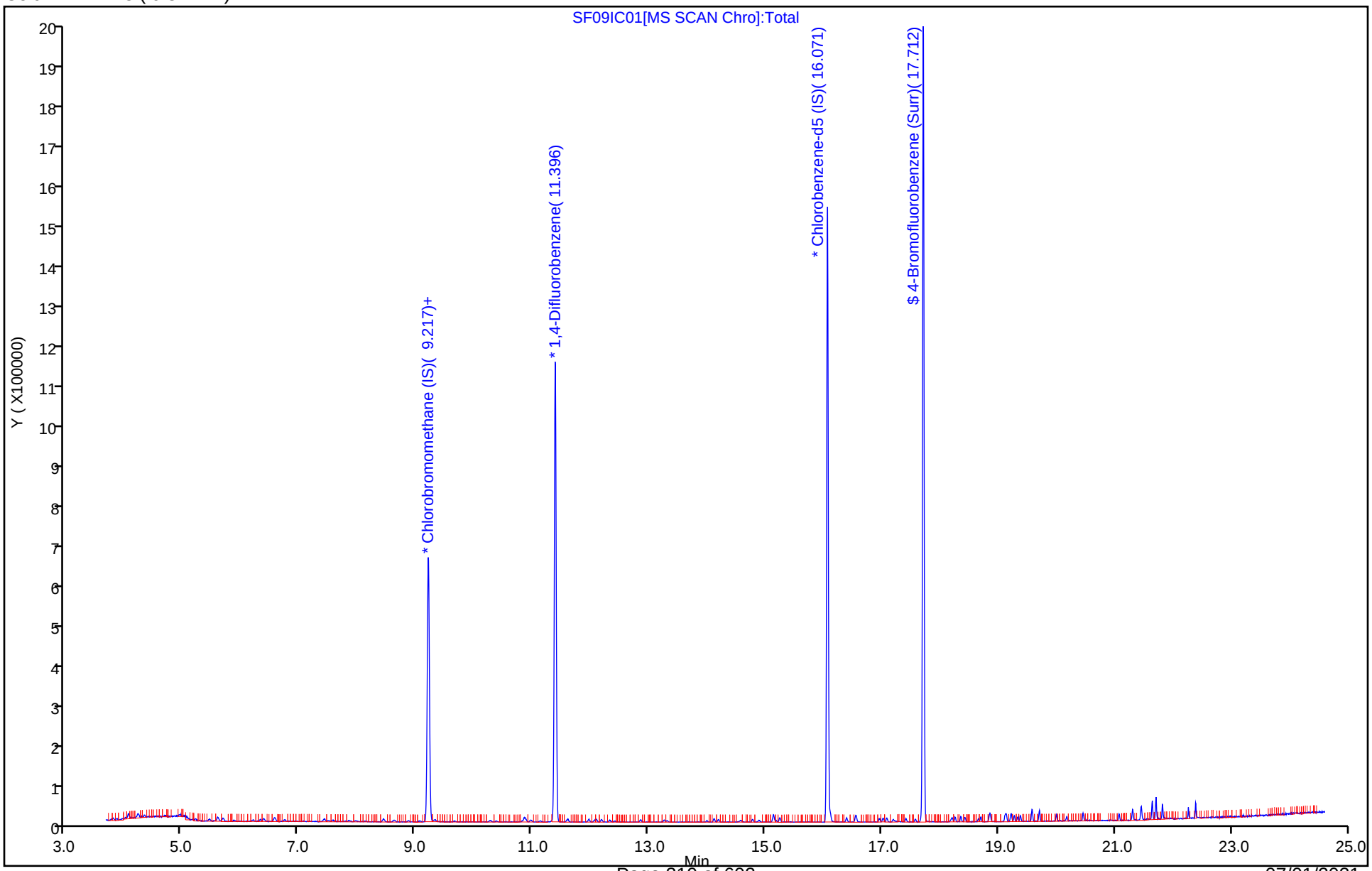
Report Date: 10-Jun-2021 10:12:30 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC01.D

Injection Date:	09-Jun-2021 18:55:30	Instrument ID:	MS	Operator ID:	HMT
Lims ID:	IC L1			Worklist Smp#:	9
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		

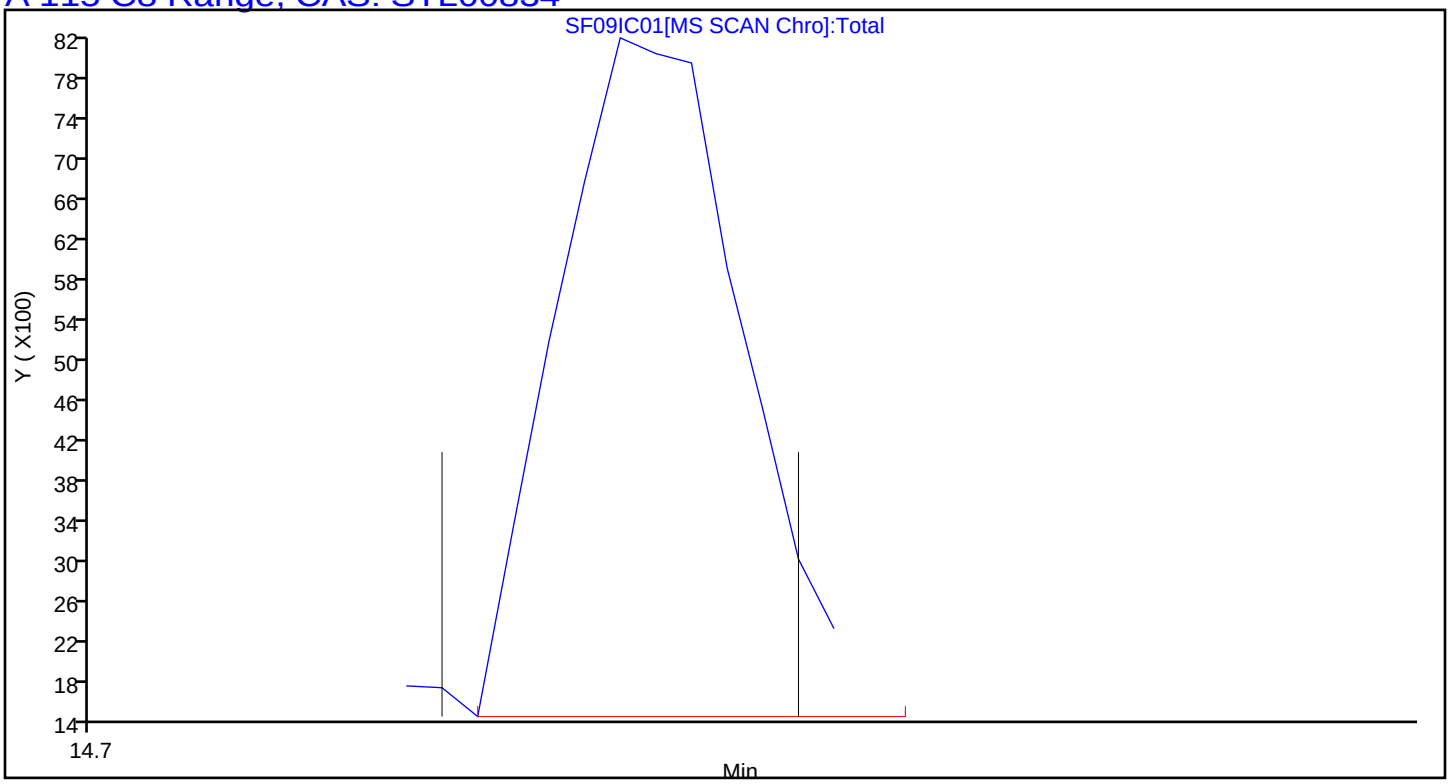
Column: RTX-5 (0.32 mm)



Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC01.D				
Injection Date:	09-Jun-2021 18:55:30	Instrument ID:	MS		
Lims ID:	IC L1				
Client ID:					
Operator ID:	HMT	ALS Bottle#:	10	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 115 C8 Range, CAS: STL00834



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC02.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 09-Jun-2021 19:40:30 ALS Bottle#: 11 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019525-010
Misc. Info.: 387801
Operator ID: HMT Instrument ID: MS
Sublist: chrom-MS_TO15A*sub1

Method: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\MS_TO15A.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 10-Jun-2021 10:12:36 Calib Date: 09-Jun-2021 23:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1623

First Level Reviewer: tajh Date: 10-Jun-2021 07:22:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.217	9.225	-0.008	98	216166	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.401	11.403	-0.002	94	1068658	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	16.071	16.071	0.000	86	904221	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.712	17.713	-0.001	97	620259	4.64	4.44	
6 Chlorodifluoromethane	51	3.805	3.810	-0.005	94	5418	0.0400	0.0444	
7 Propene	41	3.822	3.823	-0.001	90	2732	0.0400	0.0527	
8 Dichlorodifluoromethane	85	3.875	3.878	-0.003	97	7507	0.0400	0.0439	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.074	4.080	-0.006	86	6927	0.0400	0.0436	
9 Chloromethane	52	4.069	4.074	-0.005	51	1243	0.0400	0.0490	
11 Acetaldehyde	44	4.241	4.240	0.001	88	16999	0.2000	0.4776	
12 Vinyl chloride	62	4.252	4.258	-0.006	96	3517	0.0400	0.0436	
13 Butadiene	54	4.349	4.352	-0.003	68	2134	0.0400	0.0378	
14 Butane	43	4.349	4.354	-0.005	84	4414	0.0400	0.0478	
15 Bromomethane	94	4.704	4.702	0.002	95	3753	0.0400	0.0556	
16 Chloroethane	64	4.860	4.856	0.004	32	1184	0.0400	0.0435	
17 Ethanol	31	4.946	4.946	0.000	90	4872	0.2000	0.2516	
18 Vinyl bromide	106	5.172	5.180	-0.008	92	2799	0.0400	0.0408	
19 2-Methylbutane	43	5.226	5.230	-0.004	89	3614	0.0400	0.0477	
20 Trichlorofluoromethane	101	5.462	5.468	-0.006	98	7158	0.0400	0.0422	
21 Acrolein	56	5.478	5.476	0.002	28	1122	0.0400	0.0463	
23 Acetone	58	5.608	5.597	0.011	97	9799	0.1200	-0.5062	
22 Acetonitrile	40	5.559	5.564	-0.005	80	1830	0.0400	0.0674	
24 Isopropyl alcohol	45	5.694	5.685	0.009	80	10848	0.1200	0.1269	
26 Ethyl ether	31	5.887	5.877	0.010	81	2417	0.0400	0.0418	
27 1,1-Dichloroethene	96	6.215	6.219	-0.004	92	2712	0.0400	0.0439	
28 Acrylonitrile	53	6.323	6.327	-0.004	79	2713	0.0400	0.0497	
29 2-Methyl-2-propanol	59	6.334	6.320	0.014	93	4653	0.0400	0.0402	
30 112TCTFE	101	6.393	6.401	-0.008	97	6257	0.0400	0.0433	
31 Methylene Chloride	84	6.581	6.588	-0.007	95	5075	0.0400	0.0829	
32 3-Chloro-1-propene	39	6.592	6.601	-0.009	42	1134	0.0400	0.0248	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 Carbon disulfide	76	6.753	6.762	-0.009	95	10174	0.0400	0.0541	
34 trans-1,2-Dichloroethene	96	7.426	7.433	-0.007	96	2390	0.0400	0.0393	
35 2-Methylpentane	43	7.442	7.446	-0.004	93	6085	0.0400	0.0420	
36 Methyl tert-butyl ether	73	7.587	7.558	0.029	94	5973	0.0400	0.0393	
37 1,1-Dichloroethane	63	7.867	7.870	-0.003	97	6175	0.0400	0.0465	
38 Vinyl acetate	43	7.969	7.970	-0.001	99	5066	0.0400	0.0365	
39 2-Butanone (MEK)	72	8.448	8.432	0.016	89	1564	0.0400	0.0506	
40 Hexane	56	8.448	8.458	-0.010	72	2105	0.0400	0.0396	
41 Isopropyl ether	45	8.631	8.617	0.014	94	8357	0.0400	0.0386	
42 cis-1,2-Dichloroethene	96	8.873	8.883	-0.010	94	2636	0.0400	0.0412	
43 Ethyl acetate	43	9.067	9.060	0.007	97	6119	0.0400	0.0427	
44 Chloroform	83	9.223	9.232	-0.009	82	6104	0.0400	0.0437	
45 Tert-butyl ethyl ether	59	9.320	9.314	0.006	93	7849	0.0400	0.0379	
46 Tetrahydrofuran	42	9.664	9.640	0.024	93	2601	0.0400	0.0383	
47 1,1,1-Trichloroethane	97	10.282	10.285	-0.003	91	5589	0.0400	0.0439	
48 1,2-Dichloroethane	62	10.385	10.393	-0.008	90	4253	0.0400	0.0479	
49 n-Butanol	31	10.842	10.814	0.028	47	729	0.0400	0.0378	
50 Cyclohexane	69	10.869	10.874	-0.005	62	929	0.0400	0.0331	
51 Benzene	78	10.869	10.874	-0.005	97	9146	0.0400	0.0451	
52 Carbon tetrachloride	117	10.896	10.897	-0.001	83	4999	0.0400	0.0390	
53 2,3-Dimethylpentane	71	10.982	10.985	-0.003	86	1384	0.0400	0.0364	
54 Thiophene	84	11.132	11.143	-0.011	93	4304	0.0400	0.0387	
55 Isooctane	57	11.606	11.613	-0.007	97	13784	0.0400	0.0392	
56 n-Heptane	71	11.972	11.978	-0.006	90	2093	0.0400	0.0367	
57 1,2-Dichloropropane	63	12.068	12.073	-0.005	93	3827	0.0400	0.0419	
58 Trichloroethene	130	12.095	12.106	-0.011	94	3603	0.0400	0.0400	
59 Dibromomethane	93	12.192	12.194	-0.002	93	4179	0.0400	0.0479	
60 Dichlorobromomethane	83	12.337	12.334	0.003	97	5452	0.0400	0.0410	
61 1,4-Dioxane	88	12.348	12.342	0.006	27	957	0.0400	0.0345	
62 Methyl methacrylate	41	12.413	12.411	0.002	93	3038	0.0400	0.0394	
63 Methylcyclohexane	83	12.865	12.865	0.000	89	3810	0.0400	0.0313	
64 4-Methyl-2-pentanone (MIBK)	43	13.263	13.254	0.009	97	5930	0.0400	0.0401	
65 cis-1,3-Dichloropropene	75	13.317	13.319	-0.002	90	3958	0.0400	0.0376	
66 trans-1,3-Dichloropropene	75	14.005	14.001	0.004	92	3368	0.0400	0.0390	
67 Toluene	91	14.129	14.126	0.003	92	10556	0.0400	0.0455	
68 1,1,2-Trichloroethane	83	14.193	14.199	-0.006	93	3198	0.0400	0.0413	
69 2-Hexanone	58	14.586	14.569	0.017	89	2267	0.0400	0.0295	
70 n-Octane	85	14.780	14.786	-0.006	83	1394	0.0400	0.0243	
71 Chlorodibromomethane	129	14.898	14.897	0.001	95	4591	0.0400	0.0329	
72 Ethylene Dibromide	107	15.183	15.187	-0.004	98	5233	0.0400	0.0395	
73 Tetrachloroethene	129	15.248	15.253	-0.005	97	3921	0.0400	0.0420	
75 Chlorobenzene	112	16.119	16.119	0.000	92	9586	0.0400	0.0483	
74 2,3-Dimethylheptane	43	16.119	16.120	-0.001	91	8642	0.0400	0.0393	
76 Ethylbenzene	91	16.399	16.400	-0.001	98	11786	0.0400	0.0409	
77 m-Xylene & p-Xylene	91	16.560	16.559	0.001	97	18440	0.0800	0.0797	
78 n-Nonane	57	16.964	16.962	0.002	90	4839	0.0400	0.0311	
79 Bromoform	173	17.023	17.020	0.003	93	4968	0.0400	0.0332	
80 Styrene	104	17.023	17.028	-0.005	93	5289	0.0400	0.0309	
81 o-Xylene	91	17.088	17.088	0.000	99	9232	0.0400	0.0390	
82 1,1,2,2-Tetrachloroethane	83	17.421	17.417	0.004	96	7189	0.0400	0.0390	
83 1,2,3-Trichloropropane	110	17.583	17.580	0.003	97	1391	0.0400	0.0353	
84 Isopropylbenzene	105	17.674	17.679	-0.005	87	12828	0.0400	0.0391	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
85 N-Propylbenzene	120	18.212	18.212	0.000	99	2963	0.0400	0.0337	
86 2-Chlorotoluene	126	18.255	18.261	-0.006	96	3529	0.0400	0.0404	
87 4-Ethyltoluene	105	18.363	18.359	0.004	98	12689	0.0400	0.0376	
88 1,3,5-Trimethylbenzene	120	18.422	18.430	-0.008	91	4925	0.0400	0.0371	
89 Alpha Methyl Styrene	118	18.658	18.659	-0.001	82	3563	0.0400	0.0262	
90 n-Decane	57	18.701	18.702	-0.001	89	7162	0.0400	0.0334	
91 tert-Butylbenzene	119	18.852	18.853	-0.001	87	11184	0.0400	0.0369	
92 1,2,4-Trimethylbenzene	105	18.863	18.865	-0.002	96	10918	0.0400	0.0363	
93 sec-Butylbenzene	105	19.116	19.117	-0.001	97	15728	0.0400	0.0359	
94 1,3-Dichlorobenzene	146	19.137	19.138	-0.001	96	10032	0.0400	0.0438	
95 Benzyl chloride	91	19.213	19.212	0.001	97	7303	0.0400	0.0346	
96 1,4-Dichlorobenzene	146	19.223	19.224	-0.001	96	9899	0.0400	0.0438	
97 4-Isopropyltoluene	119	19.277	19.277	0.000	95	12016	0.0400	0.0346	
98 1,2,3-Trimethylbenzene	105	19.331	19.333	-0.002	98	10361	0.0400	0.0344	
99 Butylcyclohexane	83	19.379	19.381	-0.002	90	8300	0.0400	0.0349	
100 2,3-Dihydroindene	117	19.578	19.579	-0.001	90	10005	0.0400	0.0345	
101 1,2-Dichlorobenzene	146	19.578	19.582	-0.004	92	10056	0.0400	0.0437	
102 n-Butylbenzene	91	19.707	19.704	0.003	94	13577	0.0400	0.0374	
103 Indene	116	19.713	19.709	0.004	71	7630	0.0400	0.0324	
104 Undecane	57	19.998	19.999	-0.001	92	8072	0.0400	0.0331	
105 1,2-Dibromo-3-Chloropropane	157	20.170	20.176	-0.006	90	3173	0.0400	0.0326	
106 1,2,4,5-Tetramethylbenzene	119	20.455	20.456	-0.001	97	12328	0.0400	0.0360	
107 Dodecane	57	21.074	21.073	0.001	93	8975	0.0400	0.0351	
108 1,2,4-Trichlorobenzene	180	21.311	21.307	0.004	93	9519	0.0400	0.0529	
109 Naphthalene	128	21.456	21.456	0.000	98	23238	0.0400	0.0544	
110 Hexachlorobutadiene	225	21.644	21.644	0.000	91	13735	0.0400	0.0502	
111 1,2,3-Trichlorobenzene	180	21.709	21.709	0.000	96	13673	0.0400	0.0715	
112 2-Methylnaphthalene	142	22.263	22.263	0.000	93	6856	0.0400	0.0717	
113 1-Methylnaphthalene	142	22.387	22.388	-0.002	98	9672	0.0400	0.0910	
A 115 C8 Range	1	14.785	(14.764-14.807)		0	21556	0.0400	0.0338	
S 116 Xylenes, Total	100				0		0.1200	0.1187	
S 117 1,2-Dichloroethene, Total	1				0		0.0800	0.0805	

QC Flag Legend

Processing Flags

Reagents:

40L1-3DQP_00042	Amount Added: 100.00	Units: mL	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

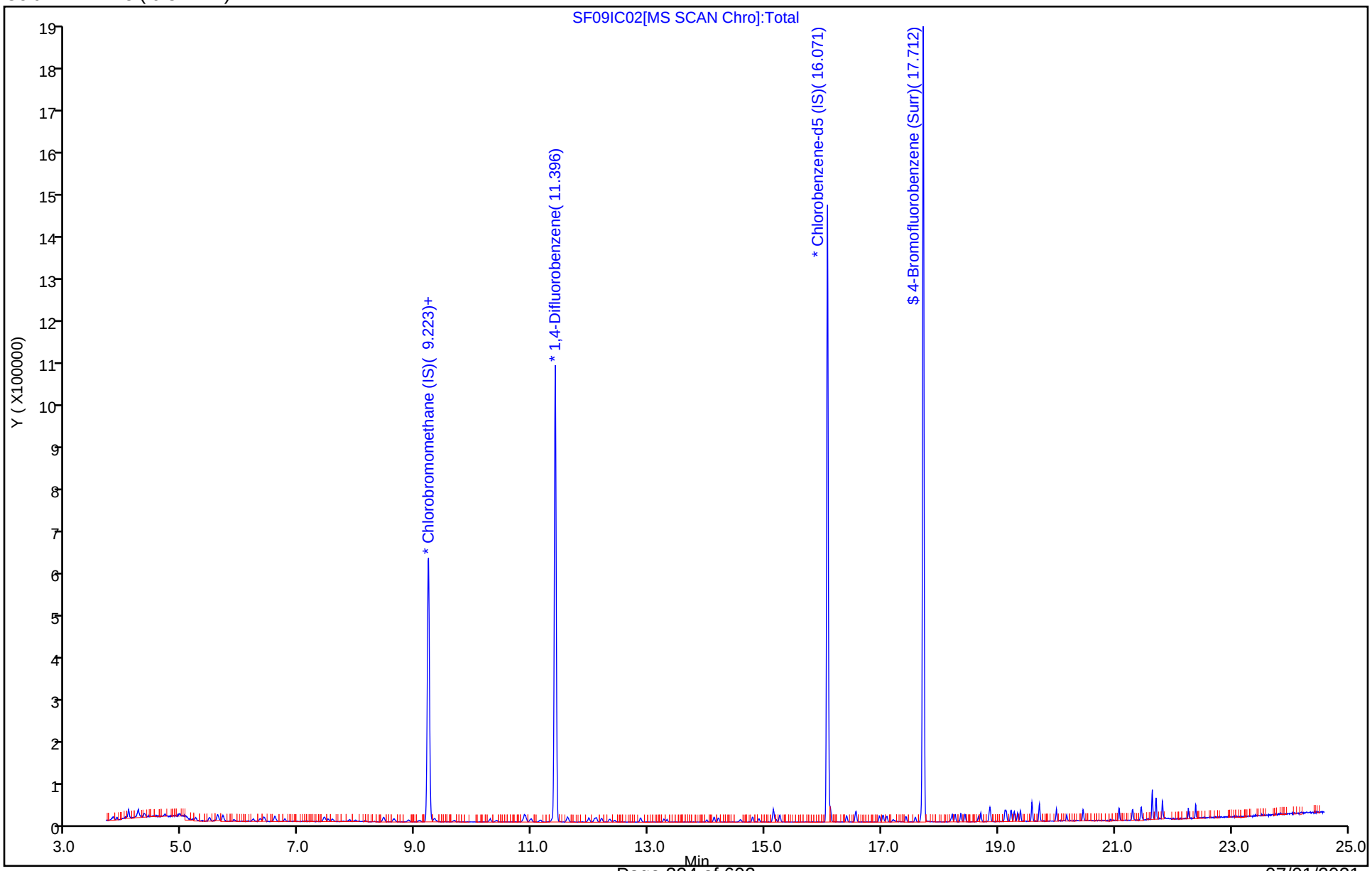
Report Date: 10-Jun-2021 10:12:36 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC02.D

Injection Date:	09-Jun-2021 19:40:30	Instrument ID:	MS	Operator ID:	HMT
Lims ID:	IC L2			Worklist Smp#:	10
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

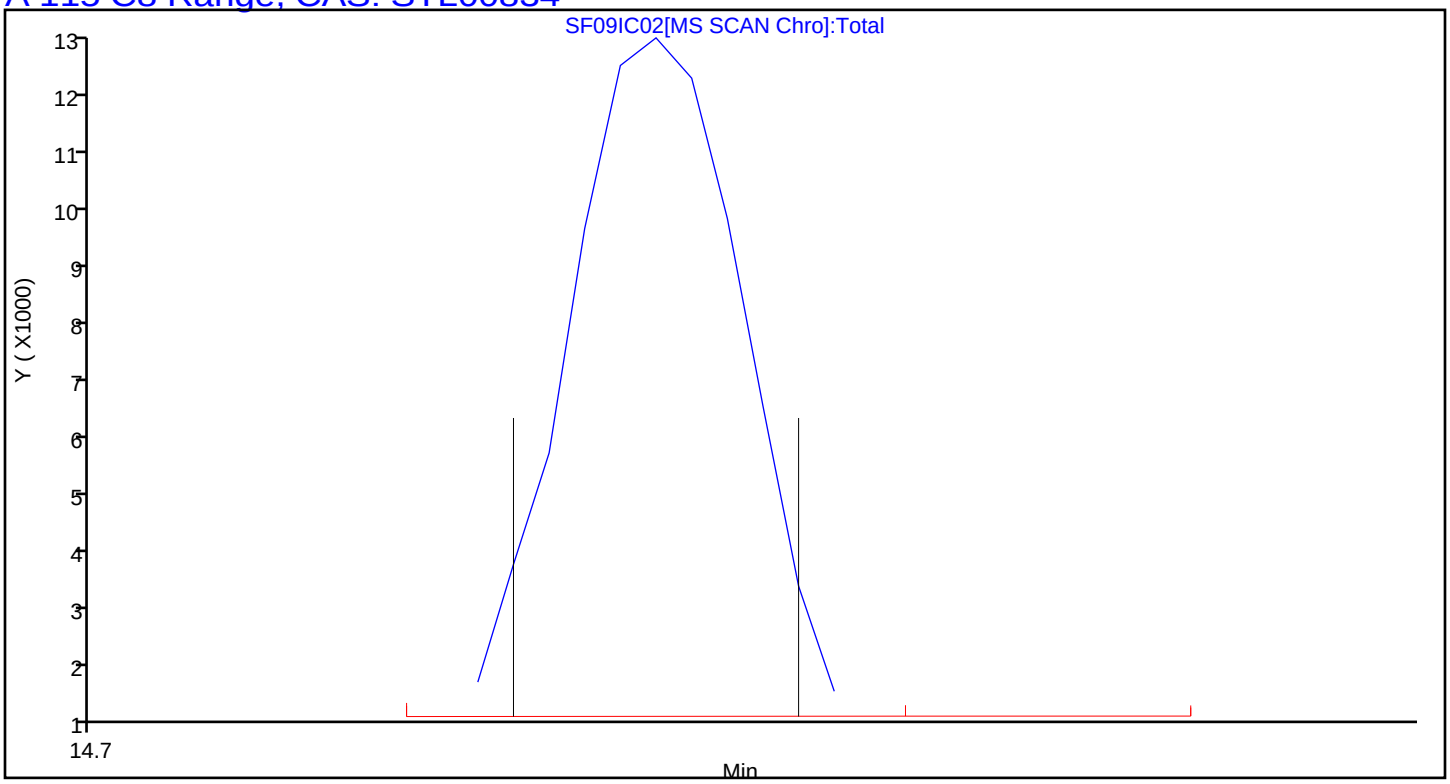


Report Date: 10-Jun-2021 10:12:37 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC02.D				
Injection Date:	09-Jun-2021 19:40:30	Instrument ID:	MS		
Lims ID:	IC L2				
Client ID:					
Operator ID:	HMT	ALS Bottle#:	11	Worklist Smp#:	10
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 115 C8 Range, CAS: STL00834



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC03.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 09-Jun-2021 20:27:30 ALS Bottle#: 12 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019525-011
Misc. Info.: 387801
Operator ID: HMT Instrument ID: MS
Sublist: chrom-MS_TO15A*sub1

Method: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\MS_TO15A.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 10-Jun-2021 10:12:43 Calib Date: 09-Jun-2021 23:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1623

First Level Reviewer: tajh Date: 10-Jun-2021 07:18:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.223	9.225	-0.002	97	206580	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.401	11.403	-0.002	94	1019100	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	16.071	16.071	0.000	87	857465	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.712	17.713	-0.001	96	595793	4.64	4.50	
6 Chlorodifluoromethane	51	3.805	3.810	-0.005	95	10181	0.0800	0.0874	
7 Propene	41	3.832	3.823	0.009	85	4199	0.0800	0.0847	
8 Dichlorodifluoromethane	85	3.875	3.878	-0.003	100	13280	0.0800	0.0812	
9 Chloromethane	52	4.069	4.074	-0.005	54	2328	0.0800	0.0961	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.074	4.080	-0.006	90	12353	0.0800	0.0813	
11 Acetaldehyde	44	4.236	4.240	-0.004	88	23246	0.4000	0.6834	
12 Vinyl chloride	62	4.257	4.258	-0.001	97	6360	0.0800	0.0824	
14 Butane	43	4.360	4.354	0.006	87	6900	0.0800	0.0782	
13 Butadiene	54	4.349	4.352	-0.003	82	4221	0.0800	0.0783	
15 Bromomethane	94	4.688	4.702	-0.014	96	5649	0.0800	0.0875	
16 Chloroethane	64	4.849	4.856	-0.007	94	2157	0.0800	0.0829	
17 Ethanol	31	4.946	4.946	0.000	90	8580	0.4000	0.4636	
18 Vinyl bromide	106	5.172	5.180	-0.008	95	5268	0.0800	0.0803	
19 2-Methylbutane	43	5.231	5.230	0.001	86	6092	0.0800	0.0842	
20 Trichlorofluoromethane	101	5.468	5.468	0.000	97	12786	0.0800	0.0789	
21 Acrolein	56	5.473	5.476	-0.003	30	2215	0.0800	0.0956	
22 Acetonitrile	40	5.554	5.564	-0.010	97	1870	0.0800	0.0720	
23 Acetone	58	5.597	5.597	0.000	96	17376	0.2400	-0.2289	
24 Isopropyl alcohol	45	5.694	5.685	0.009	83	18974	0.2400	0.2323	
25 Pentane	72	5.694	5.703	-0.009	77	486	0.0800	0.0719	
26 Ethyl ether	31	5.882	5.877	0.005	91	4423	0.0800	0.0800	
27 1,1-Dichloroethene	96	6.215	6.219	-0.004	98	4798	0.0800	0.0813	
28 Acrylonitrile	53	6.328	6.327	0.001	67	4833	0.0800	0.0926	
29 2-Methyl-2-propanol	59	6.323	6.320	0.003	93	9127	0.0800	0.0825	
30 112TCTFE	101	6.398	6.401	-0.003	97	10793	0.0800	0.0781	
31 Methylene Chloride	84	6.587	6.588	-0.001	97	7414	0.0800	0.1268	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.592	6.601	-0.009	49	3441	0.0800	0.0786	
33 Carbon disulfide	76	6.759	6.762	-0.003	98	16319	0.0800	0.0907	
34 trans-1,2-Dichloroethene	96	7.437	7.433	0.004	93	4814	0.0800	0.0828	
35 2-Methylpentane	43	7.442	7.446	-0.004	93	11602	0.0800	0.0837	
36 Methyl tert-butyl ether	73	7.571	7.558	0.013	97	11373	0.0800	0.0782	
37 1,1-Dichloroethane	63	7.856	7.870	-0.014	98	10797	0.0800	0.0851	
38 Vinyl acetate	43	7.975	7.970	0.005	100	9641	0.0800	0.0726	
40 Hexane	56	8.453	8.458	-0.005	73	3908	0.0800	0.0770	
39 2-Butanone (MEK)	72	8.437	8.432	0.005	98	2987	0.0800	0.1011	
41 Isopropyl ether	45	8.626	8.617	0.009	95	15161	0.0800	0.0733	
42 cis-1,2-Dichloroethene	96	8.873	8.883	-0.010	94	4806	0.0800	0.0787	
43 Ethyl acetate	43	9.067	9.060	0.007	98	11274	0.0800	0.0822	
44 Chloroform	83	9.223	9.232	-0.009	28	11287	0.0800	0.0845	
45 Tert-butyl ethyl ether	59	9.320	9.314	0.006	97	14583	0.0800	0.0736	
46 Tetrahydrofuran	42	9.648	9.640	0.008	92	5254	0.0800	0.0809	
47 1,1,1-Trichloroethane	97	10.282	10.285	-0.003	97	9363	0.0800	0.0770	
48 1,2-Dichloroethane	62	10.395	10.393	0.002	94	7105	0.0800	0.0839	
50 Cyclohexane	69	10.869	10.874	-0.005	62	1968	0.0800	0.0734	
51 Benzene	78	10.869	10.874	-0.005	97	15996	0.0800	0.0827	
52 Carbon tetrachloride	117	10.896	10.897	-0.001	88	9315	0.0800	0.0763	
53 2,3-Dimethylpentane	71	10.987	10.985	0.002	89	2752	0.0800	0.0758	
54 Thiophene	84	11.138	11.143	-0.005	98	8459	0.0800	0.0797	
55 Isooctane	57	11.606	11.613	-0.007	98	25313	0.0800	0.0755	
56 n-Heptane	71	11.977	11.978	-0.001	88	3820	0.0800	0.0703	
57 1,2-Dichloropropane	63	12.074	12.073	0.001	95	6835	0.0800	0.0786	
58 Trichloroethene	130	12.106	12.106	0.000	94	6968	0.0800	0.0812	
59 Dibromomethane	93	12.187	12.194	-0.007	96	6696	0.0800	0.0805	
60 Dichlorobromomethane	83	12.332	12.334	-0.002	97	9094	0.0800	0.0718	
61 1,4-Dioxane	88	12.359	12.342	0.017	58	1986	0.0800	0.0750	
62 Methyl methacrylate	41	12.413	12.411	0.002	95	5199	0.0800	0.0708	
63 Methylcyclohexane	83	12.859	12.865	-0.006	90	6969	0.0800	0.0600	
64 4-Methyl-2-pentanone (MIBK)	43	13.263	13.254	0.009	92	9892	0.0800	0.0702	
65 cis-1,3-Dichloropropene	75	13.322	13.319	0.003	93	6910	0.0800	0.0689	
66 trans-1,3-Dichloropropene	75	14.005	14.001	0.004	95	5461	0.0800	0.0666	
67 Toluene	91	14.118	14.126	-0.008	91	17003	0.0800	0.0772	
68 1,1,2-Trichloroethane	83	14.199	14.199	0.000	97	5893	0.0800	0.0802	
69 2-Hexanone	58	14.575	14.569	0.006	91	4526	0.0800	0.0620	
70 n-Octane	85	14.785	14.786	-0.001	90	3355	0.0800	0.0618	
71 Chlorodibromomethane	129	14.893	14.897	-0.004	95	9076	0.0800	0.0685	
72 Ethylene Dibromide	107	15.189	15.187	0.002	95	9674	0.0800	0.0771	
73 Tetrachloroethene	129	15.253	15.253	0.000	95	6688	0.0800	0.0755	
75 Chlorobenzene	112	16.119	16.119	0.000	91	16079	0.0800	0.0854	
74 2,3-Dimethylheptane	43	16.119	16.120	-0.001	93	16555	0.0800	0.0795	
76 Ethylbenzene	91	16.399	16.400	-0.001	98	20221	0.0800	0.0741	
77 m-Xylene & p-Xylene	91	16.560	16.559	0.001	97	32084	0.1600	0.1462	
78 n-Nonane	57	16.959	16.962	-0.004	92	8866	0.0800	0.0600	
79 Bromoform	173	17.018	17.020	-0.002	86	8614	0.0800	0.0608	
80 Styrene	104	17.023	17.028	-0.005	95	10687	0.0800	0.0658	
81 o-Xylene	91	17.082	17.088	-0.006	99	17210	0.0800	0.0767	
82 1,1,2,2-Tetrachloroethane	83	17.421	17.417	0.004	97	12996	0.0800	0.0743	
83 1,2,3-Trichloropropane	110	17.577	17.580	-0.003	96	2629	0.0800	0.0703	
84 Isopropylbenzene	105	17.679	17.679	0.000	89	22871	0.0800	0.0735	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
85 N-Propylbenzene	120	18.212	18.212	0.000	99	5819	0.0800	0.0697	
86 2-Chlorotoluene	126	18.266	18.261	0.005	97	6778	0.0800	0.0818	
87 4-Ethyltoluene	105	18.363	18.359	0.004	98	21849	0.0800	0.0682	
88 1,3,5-Trimethylbenzene	120	18.427	18.430	-0.003	92	9054	0.0800	0.0720	
89 Alpha Methyl Styrene	118	18.658	18.659	-0.001	86	7036	0.0800	0.0545	
90 n-Decane	57	18.696	18.702	-0.006	90	13697	0.0800	0.0674	
91 tert-Butylbenzene	119	18.852	18.853	-0.001	92	20716	0.0800	0.0721	
92 1,2,4-Trimethylbenzene	105	18.863	18.865	-0.002	96	19761	0.0800	0.0693	
93 sec-Butylbenzene	105	19.116	19.117	-0.001	99	29582	0.0800	0.0712	
94 1,3-Dichlorobenzene	146	19.137	19.138	-0.001	97	16942	0.0800	0.0779	
95 Benzyl chloride	91	19.207	19.212	-0.005	97	12588	0.0800	0.0629	
96 1,4-Dichlorobenzene	146	19.223	19.224	-0.001	94	16708	0.0800	0.0779	
97 4-Isopropyltoluene	119	19.277	19.277	0.000	96	22505	0.0800	0.0683	
98 1,2,3-Trimethylbenzene	105	19.331	19.333	-0.002	98	20743	0.0800	0.0727	
99 Butylcyclohexane	83	19.385	19.381	0.004	91	15823	0.0800	0.0702	
100 2,3-Dihydroindene	117	19.578	19.579	-0.001	91	19537	0.0800	0.0710	
101 1,2-Dichlorobenzene	146	19.584	19.582	0.002	93	16698	0.0800	0.0765	
102 n-Butylbenzene	91	19.702	19.704	-0.002	96	24936	0.0800	0.0724	
103 Indene	116	19.707	19.709	-0.002	87	14341	0.0800	0.0642	
104 Undecane	57	19.998	19.999	-0.001	92	16656	0.0800	0.0721	
105 1,2-Dibromo-3-Chloropropane	157	20.181	20.176	0.005	93	6458	0.0800	0.0700	
106 1,2,4,5-Tetramethylbenzene	119	20.455	20.456	-0.001	96	23313	0.0800	0.0719	
107 Dodecane	57	21.074	21.073	0.001	94	19406	0.0800	0.0800	
108 1,2,4-Trichlorobenzene	180	21.311	21.307	0.004	93	14447	0.0800	0.0847	
109 Naphthalene	128	21.456	21.456	0.000	99	32504	0.0800	0.0803	
110 Hexachlorobutadiene	225	21.644	21.644	0.000	91	23567	0.0800	0.0908	
111 1,2,3-Trichlorobenzene	180	21.709	21.709	0.000	92	18608	0.0800	0.1026	
112 2-Methylnaphthalene	142	22.263	22.263	0.000	99	9921	0.0800	0.1094	
113 1-Methylnaphthalene	142	22.386	22.388	-0.002	97	14138	0.0800	0.1403	
A 115 C8 Range	1	14.791	(14.758-14.823)		0	43838	0.0800	0.0720	
S 116 Xylenes, Total	100				0		0.2400	0.2229	
S 117 1,2-Dichloroethene, Total	1				0		0.1600	0.1615	

QC Flag Legend

Processing Flags

Reagents:

40L1-3DQP_00042	Amount Added: 200.00	Units: mL	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

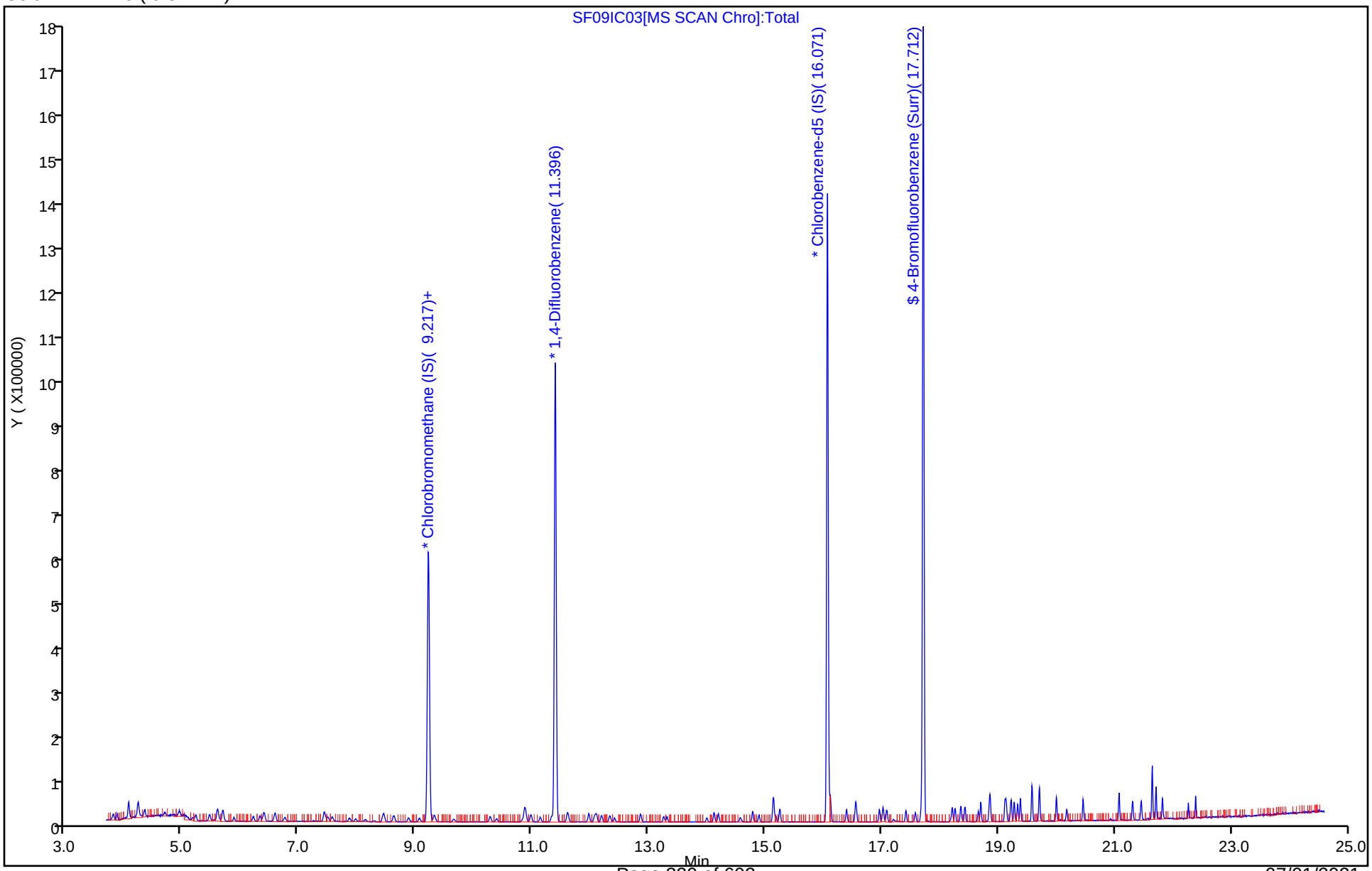
Report Date: 10-Jun-2021 10:12:44 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC03.D

Injection Date:	09-Jun-2021 20:27:30	Instrument ID:	MS	Operator ID:	HMT
Lims ID:	IC L3			Worklist Smp#:	11
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

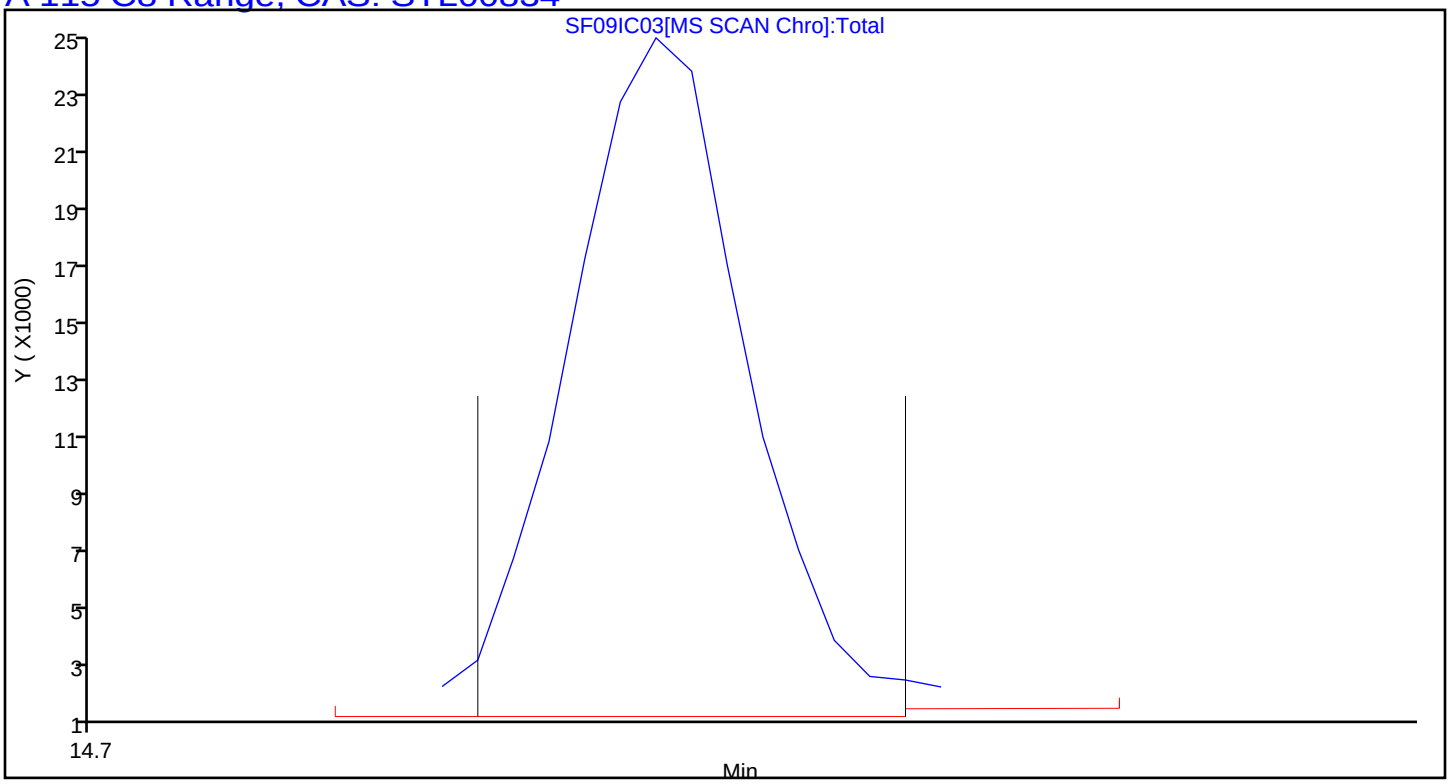


Report Date: 10-Jun-2021 10:12:44 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC03.D				
Injection Date:	09-Jun-2021 20:27:30	Instrument ID:	MS		
Lims ID:	IC L3				
Client ID:					
Operator ID:	HMT	ALS Bottle#:	12	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 115 C8 Range, CAS: STL00834



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC04.D
Lims ID: IC L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 09-Jun-2021 21:15:30 ALS Bottle#: 13 Worklist Smp#: 12
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019525-012
Misc. Info.: 387800
Operator ID: HMT Instrument ID: MS
Sublist: chrom-MS_TO15A*sub1

Method: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\MS_TO15A.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 10-Jun-2021 10:12:49 Calib Date: 09-Jun-2021 23:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1623

First Level Reviewer: tajh Date: 10-Jun-2021 07:19:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.223	9.225	-0.002	98	198237	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.401	11.403	-0.002	94	1000141	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	16.071	16.071	0.000	86	847616	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.717	17.713	0.004	96	588214	4.64	4.50	
6 Chlorodifluoromethane	51	3.816	3.810	0.006	96	18848	0.1600	0.1686	
7 Propene	41	3.827	3.823	0.004	87	8489	0.1600	0.1784	
8 Dichlorodifluoromethane	85	3.875	3.878	-0.003	99	25606	0.1600	0.1632	
9 Chloromethane	52	4.074	4.074	0.000	56	4915	0.1600	0.2115	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.085	4.080	0.005	89	24702	0.1600	0.1694	
11 Acetaldehyde	44	4.241	4.240	0.001	88	34460	0.8000	1.06	
12 Vinyl chloride	62	4.257	4.258	-0.001	97	13027	0.1600	0.1760	
13 Butadiene	54	4.360	4.352	0.008	69	9587	0.1600	0.1853	
14 Butane	43	4.354	4.354	0.000	84	16302	0.1600	0.1924	
15 Bromomethane	94	4.698	4.702	-0.004	99	12101	0.1600	0.1953	
16 Chloroethane	64	4.855	4.856	-0.002	92	4205	0.1600	0.1683	
17 Ethanol	31	4.946	4.946	0.000	91	14710	0.8000	0.8283	
18 Vinyl bromide	106	5.183	5.180	0.003	94	10674	0.1600	0.1696	
19 2-Methylbutane	43	5.226	5.230	-0.004	90	12329	0.1600	0.1775	
20 Trichlorofluoromethane	101	5.468	5.468	0.000	99	27031	0.1600	0.1738	
21 Acrolein	56	5.479	5.476	0.003	29	3710	0.1600	0.1668	
22 Acetonitrile	40	5.548	5.564	-0.016	93	5284	0.1600	0.2121	
23 Acetone	58	5.608	5.597	0.011	97	25092	0.4800	0.0746	
24 Isopropyl alcohol	45	5.688	5.685	0.003	90	38788	0.4800	0.4950	
25 Pentane	72	5.710	5.703	0.007	88	1187	0.1600	0.1831	
26 Ethyl ether	31	5.882	5.877	0.005	94	8720	0.1600	0.1644	
27 1,1-Dichloroethene	96	6.221	6.219	0.002	95	9529	0.1600	0.1682	
29 2-Methyl-2-propanol	59	6.334	6.320	0.014	92	17077	0.1600	0.1609	
28 Acrylonitrile	53	6.329	6.327	0.001	71	8710	0.1600	0.1738	
30 112TCTFE	101	6.398	6.401	-0.003	95	22223	0.1600	0.1677	
31 Methylene Chloride	84	6.587	6.588	-0.001	97	11451	0.1600	0.2041	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.603	6.601	0.002	84	7587	0.1600	0.1807	
33 Carbon disulfide	76	6.764	6.762	0.002	98	30315	0.1600	0.1756	
34 trans-1,2-Dichloroethene	96	7.426	7.433	-0.007	95	9391	0.1600	0.1683	
35 2-Methylpentane	43	7.447	7.446	0.001	95	21706	0.1600	0.1632	
36 Methyl tert-butyl ether	73	7.571	7.558	0.013	96	22773	0.1600	0.1632	
37 1,1-Dichloroethane	63	7.872	7.870	0.002	100	20153	0.1600	0.1655	
38 Vinyl acetate	43	7.975	7.970	0.005	100	19032	0.1600	0.1494	
39 2-Butanone (MEK)	72	8.443	8.432	0.011	94	4817	0.1600	0.1698	
40 Hexane	56	8.453	8.458	-0.005	90	7981	0.1600	0.1639	
41 Isopropyl ether	45	8.620	8.617	0.003	98	31772	0.1600	0.1600	
42 cis-1,2-Dichloroethene	96	8.884	8.883	0.001	97	9279	0.1600	0.1583	
43 Ethyl acetate	43	9.067	9.060	0.007	98	20919	0.1600	0.1590	
44 Chloroform	83	9.233	9.232	0.001	40	21540	0.1600	0.1681	
45 Tert-butyl ethyl ether	59	9.325	9.314	0.011	96	29678	0.1600	0.1561	
46 Tetrahydrofuran	42	9.648	9.640	0.008	91	9786	0.1600	0.1571	
47 1,1,1-Trichloroethane	97	10.288	10.285	0.003	97	18842	0.1600	0.1614	
48 1,2-Dichloroethane	62	10.390	10.393	-0.003	96	13428	0.1600	0.1615	
49 n-Butanol	31	10.831	10.814	0.017	87	2517	0.1600	0.1395	
50 Cyclohexane	69	10.880	10.874	0.006	69	4093	0.1600	0.1556	
51 Benzene	78	10.874	10.874	0.000	97	30588	0.1600	0.1612	
52 Carbon tetrachloride	117	10.896	10.897	-0.001	95	14643	0.1600	0.1222	
53 2,3-Dimethylpentane	71	10.987	10.985	0.002	89	5275	0.1600	0.1481	
54 Thiophene	84	11.143	11.143	0.000	98	16669	0.1600	0.1601	
55 Isooctane	57	11.617	11.613	0.004	98	49953	0.1600	0.1519	
56 n-Heptane	71	11.982	11.978	0.004	89	7520	0.1600	0.1410	
57 1,2-Dichloropropane	63	12.074	12.073	0.001	97	13433	0.1600	0.1573	
58 Trichloroethene	130	12.106	12.106	0.000	96	12974	0.1600	0.1540	
59 Dibromomethane	93	12.187	12.194	-0.007	97	13306	0.1600	0.1630	
60 Dichlorobromomethane	83	12.332	12.334	-0.002	99	18520	0.1600	0.1489	
61 1,4-Dioxane	88	12.354	12.342	0.012	87	3674	0.1600	0.1413	
62 Methyl methacrylate	41	12.418	12.411	0.007	92	9864	0.1600	0.1368	
63 Methylcyclohexane	83	12.865	12.865	0.000	93	14376	0.1600	0.1260	
64 4-Methyl-2-pentanone (MIBK)	43	13.257	13.254	0.003	97	20763	0.1600	0.1502	
65 cis-1,3-Dichloropropene	75	13.317	13.319	-0.002	91	14873	0.1600	0.1510	
66 trans-1,3-Dichloropropene	75	14.000	14.001	-0.001	98	11466	0.1600	0.1415	
67 Toluene	91	14.129	14.126	0.003	92	32300	0.1600	0.1484	
68 1,1,2-Trichloroethane	83	14.199	14.199	0.000	93	12324	0.1600	0.1697	
69 2-Hexanone	58	14.570	14.569	0.001	93	9162	0.1600	0.1270	
70 n-Octane	85	14.791	14.786	0.005	91	7977	0.1600	0.1486	
71 Chlorodibromomethane	129	14.893	14.897	-0.004	96	17755	0.1600	0.1356	
72 Ethylene Dibromide	107	15.183	15.187	-0.004	96	18658	0.1600	0.1504	
73 Tetrachloroethene	129	15.253	15.253	0.000	95	13723	0.1600	0.1567	
75 Chlorobenzene	112	16.114	16.119	-0.005	93	29554	0.1600	0.1587	
74 2,3-Dimethylheptane	43	16.119	16.120	-0.001	94	33052	0.1600	0.1605	
76 Ethylbenzene	91	16.399	16.400	-0.001	98	40625	0.1600	0.1506	
77 m-Xylene & p-Xylene	91	16.560	16.559	0.001	96	64559	0.3200	0.2977	
78 n-Nonane	57	16.964	16.962	0.002	89	20145	0.1600	0.1379	
79 Bromoform	173	17.018	17.020	-0.002	97	16716	0.1600	0.1193	
80 Styrene	104	17.028	17.028	0.000	99	20825	0.1600	0.1297	
81 o-Xylene	91	17.088	17.088	0.000	99	34008	0.1600	0.1533	
82 1,1,2,2-Tetrachloroethane	83	17.416	17.417	-0.001	99	26942	0.1600	0.1558	
83 1,2,3-Trichloropropane	110	17.583	17.580	0.003	97	6023	0.1600	0.1630	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Isopropylbenzene	105	17.679	17.679	0.000	90	45213	0.1600	0.1470	
85 N-Propylbenzene	120	18.207	18.212	-0.005	98	11286	0.1600	0.1368	
86 2-Chlorotoluene	126	18.266	18.261	0.005	97	12472	0.1600	0.1522	
87 4-Ethyltoluene	105	18.357	18.359	-0.002	99	46362	0.1600	0.1464	
88 1,3,5-Trimethylbenzene	120	18.433	18.430	0.003	91	17816	0.1600	0.1434	
89 Alpha Methyl Styrene	118	18.658	18.659	-0.001	87	14604	0.1600	0.1145	
90 n-Decane	57	18.702	18.702	0.000	89	30034	0.1600	0.1495	
91 tert-Butylbenzene	119	18.852	18.853	-0.001	90	41958	0.1600	0.1477	
92 1,2,4-Trimethylbenzene	105	18.863	18.865	-0.002	96	42603	0.1600	0.1511	
93 sec-Butylbenzene	105	19.116	19.117	-0.001	99	60064	0.1600	0.1463	
94 1,3-Dichlorobenzene	146	19.137	19.138	-0.001	98	31314	0.1600	0.1457	
95 Benzyl chloride	91	19.213	19.212	0.001	97	23729	0.1600	0.1200	
96 1,4-Dichlorobenzene	146	19.223	19.224	-0.001	94	30618	0.1600	0.1444	
97 4-Isopropyltoluene	119	19.277	19.277	0.000	96	46195	0.1600	0.1417	
98 1,2,3-Trimethylbenzene	105	19.331	19.333	-0.002	98	42254	0.1600	0.1498	
99 Butylcyclohexane	83	19.379	19.381	-0.002	91	34512	0.1600	0.1549	
100 2,3-Dihydroindene	117	19.578	19.579	-0.001	91	39301	0.1600	0.1445	
101 1,2-Dichlorobenzene	146	19.578	19.582	-0.004	94	31368	0.1600	0.1454	
102 n-Butylbenzene	91	19.702	19.704	-0.002	94	51135	0.1600	0.1502	
103 Indene	116	19.708	19.709	-0.001	90	29642	0.1600	0.1342	
104 Undecane	57	19.998	19.999	-0.001	93	33491	0.1600	0.1467	
105 1,2-Dibromo-3-Chloropropane	157	20.176	20.176	0.000	96	11618	0.1600	0.1273	
106 1,2,4,5-Tetramethylbenzene	119	20.455	20.456	-0.001	97	45801	0.1600	0.1429	
107 Dodecane	57	21.074	21.073	0.001	94	36210	0.1600	0.1510	
108 1,2,4-Trichlorobenzene	180	21.305	21.307	-0.002	93	23223	0.1600	0.1377	
109 Naphthalene	128	21.456	21.456	0.000	99	51115	0.1600	0.1277	
110 Hexachlorobutadiene	225	21.644	21.644	0.000	93	43782	0.1600	0.1707	
111 1,2,3-Trichlorobenzene	180	21.709	21.709	0.000	94	31908	0.1600	0.1780	
112 2-Methylnaphthalene	142	22.263	22.263	0.000	96	11419	0.1600	0.1274	
113 1-Methylnaphthalene	142	22.392	22.388	0.004	98	17186	0.1600	0.1725	
A 115 C8 Range	1	14.791	(14.753-14.828)		0	87885	0.1600	0.1471	
S 116 Xylenes, Total	100				0		0.4800	0.4509	
S 117 1,2-Dichloroethene, Total	1				0		0.3200	0.3266	

QC Flag Legend

Processing Flags

Reagents:

40L4DQP_00027	Amount Added: 200.00	Units: mL	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

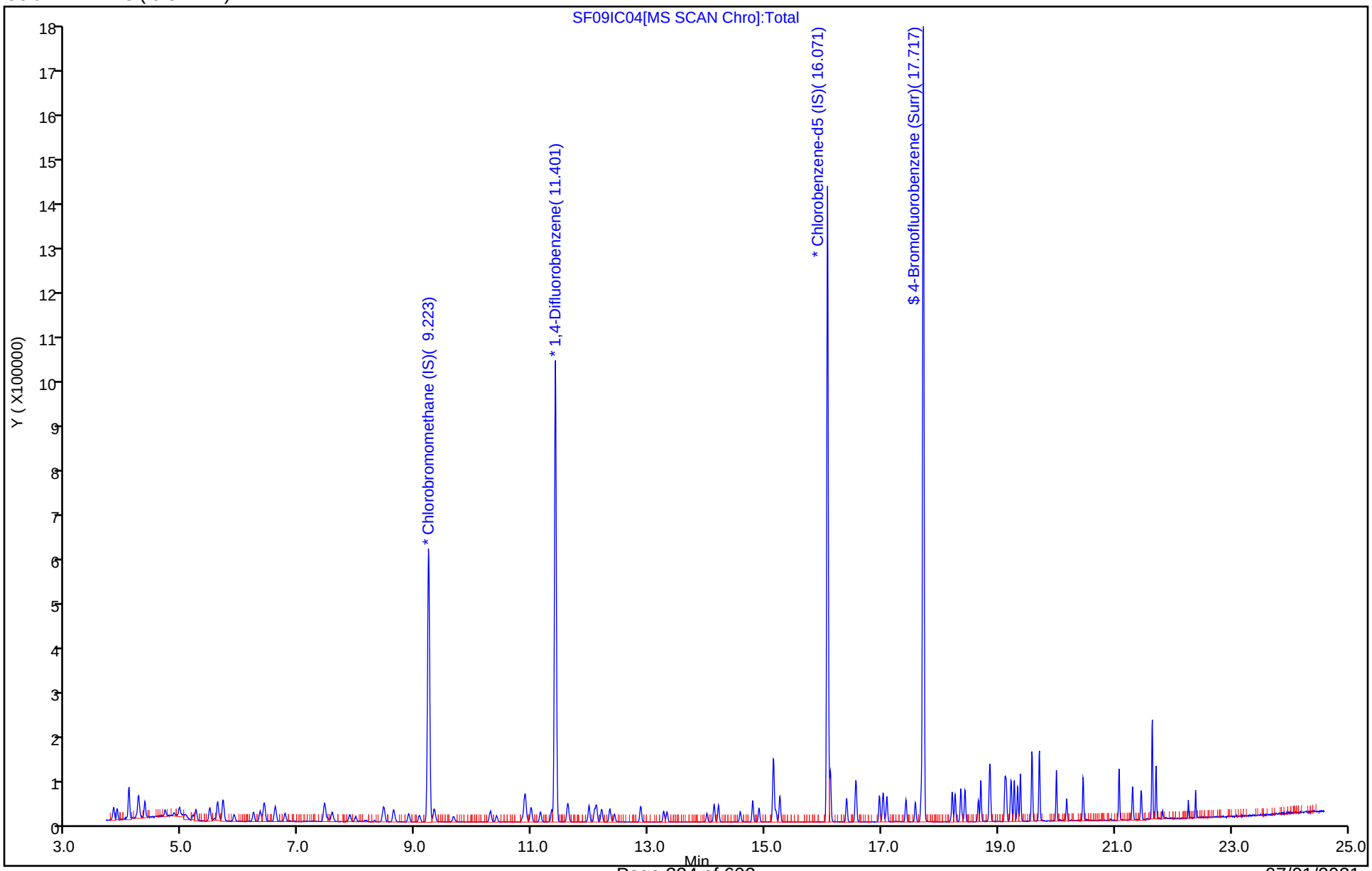
Report Date: 10-Jun-2021 10:12:50 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC04.D

Injection Date:	09-Jun-2021 21:15:30	Instrument ID:	MS	Operator ID:	HMT
Lims ID:	IC L4			Worklist Smp#:	12
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

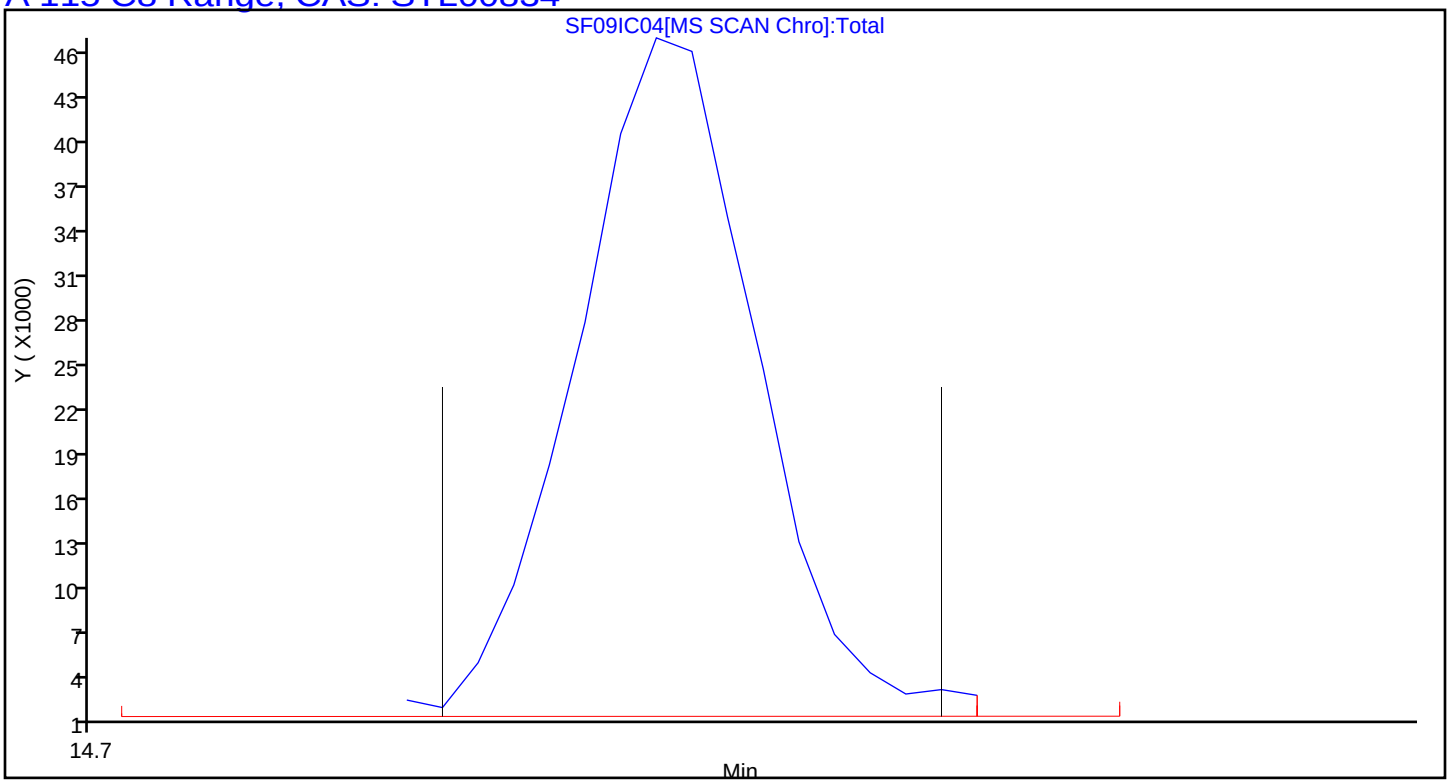


Report Date: 10-Jun-2021 10:12:50 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC04.D				
Injection Date:	09-Jun-2021 21:15:30	Instrument ID:	MS		
Lims ID:	IC L4				
Client ID:					
Operator ID:	HMT	ALS Bottle#:	13	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 115 C8 Range, CAS: STL00834



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC05.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 09-Jun-2021 22:04:30 ALS Bottle#: 14 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019525-013
Misc. Info.: 387799
Operator ID: HMT Instrument ID: MS
Sublist: chrom-MS_TO15A*sub1

Method: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\MS_TO15A.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 10-Jun-2021 10:12:55 Calib Date: 09-Jun-2021 23:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1623

First Level Reviewer: tajh Date: 10-Jun-2021 07:20:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.223	9.225	-0.002	98	204286	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.401	11.403	-0.002	94	1039626	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	16.071	16.071	0.000	87	885413	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.712	17.713	-0.001	97	620446	4.64	4.54	
6 Chlorodifluoromethane	51	3.811	3.810	0.001	95	46159	0.4000	0.4007	
7 Propene	41	3.822	3.823	-0.001	95	21311	0.4000	0.4346	
8 Dichlorodifluoromethane	85	3.881	3.878	0.003	100	66295	0.4000	0.4101	
9 Chloromethane	52	4.074	4.074	0.000	61	10369	0.4000	0.4329	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.080	4.080	0.000	88	62612	0.4000	0.4168	
11 Acetaldehyde	44	4.241	4.240	0.001	85	94136	2.00	2.80	
12 Vinyl chloride	62	4.257	4.258	-0.001	98	33168	0.4000	0.4348	
14 Butane	43	4.354	4.354	0.000	86	41587	0.4000	0.4763	
13 Butadiene	54	4.354	4.352	0.002	68	25123	0.4000	0.4713	
15 Bromomethane	94	4.704	4.702	0.002	96	28403	0.4000	0.4449	
16 Chloroethane	64	4.854	4.856	-0.002	95	11716	0.4000	0.4552	
17 Ethanol	31	4.946	4.946	0.000	89	42548	2.00	2.32	
18 Vinyl bromide	106	5.188	5.180	0.008	99	27756	0.4000	0.4278	
19 2-Methylbutane	43	5.231	5.230	0.001	87	28705	0.4000	0.4011	
20 Trichlorofluoromethane	101	5.468	5.468	0.000	98	65059	0.4000	0.4059	
21 Acrolein	56	5.479	5.476	0.002	30	9775	0.4000	0.4266	
22 Acetonitrile	40	5.548	5.564	-0.016	96	10085	0.4000	0.3927	
23 Acetone	58	5.597	5.597	0.000	98	67737	1.20	1.54	
24 Isopropyl alcohol	45	5.683	5.685	-0.002	94	99208	1.20	1.23	
25 Pentane	72	5.699	5.703	-0.004	94	2616	0.4000	0.3916	
26 Ethyl ether	31	5.877	5.877	0.000	93	22300	0.4000	0.4080	
27 1,1-Dichloroethene	96	6.221	6.219	0.002	94	23685	0.4000	0.4057	
28 Acrylonitrile	53	6.328	6.327	0.001	61	20523	0.4000	0.3975	
29 2-Methyl-2-propanol	59	6.328	6.320	0.008	92	43966	0.4000	0.4019	
30 112TCTFE	101	6.409	6.401	0.008	98	55508	0.4000	0.4064	
31 Methylene Chloride	84	6.587	6.588	-0.001	99	24751	0.4000	0.4280	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.597	6.601	-0.004	94	18180	0.4000	0.4202	
33 Carbon disulfide	76	6.759	6.762	-0.003	98	71284	0.4000	0.4008	
34 trans-1,2-Dichloroethene	96	7.431	7.433	-0.002	94	22513	0.4000	0.3915	
35 2-Methylpentane	43	7.447	7.446	0.001	95	53977	0.4000	0.3938	
36 Methyl tert-butyl ether	73	7.555	7.558	-0.003	97	57030	0.4000	0.3967	
37 1,1-Dichloroethane	63	7.872	7.870	0.002	99	49622	0.4000	0.3955	
38 Vinyl acetate	43	7.969	7.970	-0.001	100	49042	0.4000	0.3736	
39 2-Butanone (MEK)	72	8.437	8.432	0.005	97	12979	0.4000	0.4440	
40 Hexane	56	8.459	8.458	0.001	90	20513	0.4000	0.4088	
41 Isopropyl ether	45	8.615	8.617	-0.002	97	81929	0.4000	0.4005	
42 cis-1,2-Dichloroethene	96	8.884	8.883	0.001	98	23536	0.4000	0.3897	
43 Ethyl acetate	43	9.061	9.060	0.001	99	53732	0.4000	0.3963	
44 Chloroform	83	9.233	9.232	0.001	98	51812	0.4000	0.3924	
45 Tert-butyl ethyl ether	59	9.314	9.314	0.000	95	78043	0.4000	0.3983	
46 Tetrahydrofuran	42	9.637	9.640	-0.003	93	25676	0.4000	0.3999	
47 1,1,1-Trichloroethane	97	10.282	10.285	-0.003	97	46888	0.4000	0.3898	
48 1,2-Dichloroethane	62	10.385	10.393	-0.008	96	34141	0.4000	0.3951	
49 n-Butanol	31	10.820	10.814	0.006	77	6818	0.4000	0.3635	
51 Benzene	78	10.874	10.874	0.000	97	75788	0.4000	0.3843	
50 Cyclohexane	69	10.874	10.874	0.000	65	10425	0.4000	0.3813	
52 Carbon tetrachloride	117	10.896	10.897	-0.001	96	47596	0.4000	0.3821	
53 2,3-Dimethylpentane	71	10.987	10.985	0.002	90	14265	0.4000	0.3852	
54 Thiophene	84	11.143	11.143	0.000	97	42086	0.4000	0.3888	
55 Isooctane	57	11.617	11.613	0.004	98	132316	0.4000	0.3870	
56 n-Heptane	71	11.977	11.978	-0.001	90	22409	0.4000	0.4042	
57 1,2-Dichloropropane	63	12.074	12.073	0.001	97	34696	0.4000	0.3909	
58 Trichloroethene	130	12.106	12.106	0.000	95	32117	0.4000	0.3668	
59 Dibromomethane	93	12.192	12.194	-0.002	95	30974	0.4000	0.3650	
60 Dichlorobromomethane	83	12.327	12.334	-0.007	98	47813	0.4000	0.3699	
61 1,4-Dioxane	88	12.348	12.342	0.006	39	10093	0.4000	0.3735	
62 Methyl methacrylate	41	12.413	12.411	0.002	95	27659	0.4000	0.3690	
63 Methylcyclohexane	83	12.865	12.865	0.000	93	39617	0.4000	0.3342	
64 4-Methyl-2-pentanone (MIBK)	43	13.257	13.254	0.003	96	54361	0.4000	0.3783	
65 cis-1,3-Dichloropropene	75	13.317	13.319	-0.002	93	37256	0.4000	0.3639	
66 trans-1,3-Dichloropropene	75	14.000	14.001	-0.001	99	30862	0.4000	0.3646	
67 Toluene	91	14.123	14.126	-0.003	92	85952	0.4000	0.3781	
68 1,1,2-Trichloroethane	83	14.199	14.199	0.000	95	29471	0.4000	0.3884	
69 2-Hexanone	58	14.570	14.569	0.001	93	26511	0.4000	0.3519	
70 n-Octane	85	14.785	14.786	-0.001	94	20791	0.4000	0.3709	
71 Chlorodibromomethane	129	14.893	14.897	-0.004	97	47471	0.4000	0.3471	
72 Ethylene Dibromide	107	15.189	15.187	0.002	98	48144	0.4000	0.3714	
73 Tetrachloroethene	129	15.253	15.253	0.000	97	33405	0.4000	0.3650	
75 Chlorobenzene	112	16.119	16.119	0.000	86	73635	0.4000	0.3786	
74 2,3-Dimethylheptane	43	16.119	16.120	-0.001	94	85262	0.4000	0.3964	
76 Ethylbenzene	91	16.399	16.400	-0.001	98	103572	0.4000	0.3675	
77 m-Xylene & p-Xylene	91	16.560	16.559	0.001	97	166491	0.8000	0.7349	
78 n-Nonane	57	16.959	16.962	-0.003	92	57067	0.4000	0.3741	
79 Bromoform	173	17.018	17.020	-0.002	96	49932	0.4000	0.3412	
80 Styrene	104	17.028	17.028	0.000	98	58135	0.4000	0.3467	
81 o-Xylene	91	17.088	17.088	0.000	99	87786	0.4000	0.3787	
82 1,1,2,2-Tetrachloroethane	83	17.416	17.417	-0.001	99	65471	0.4000	0.3624	
83 1,2,3-Trichloropropane	110	17.583	17.580	0.003	98	14605	0.4000	0.3784	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Isopropylbenzene	105	17.679	17.679	0.000	92	115048	0.4000	0.3582	
85 N-Propylbenzene	120	18.212	18.212	0.000	99	29775	0.4000	0.3456	
86 2-Chlorotoluene	126	18.260	18.261	-0.001	98	30320	0.4000	0.3543	
87 4-Ethyltoluene	105	18.357	18.359	-0.002	99	120516	0.4000	0.3644	
88 1,3,5-Trimethylbenzene	120	18.427	18.430	-0.003	92	48183	0.4000	0.3711	
89 Alpha Methyl Styrene	118	18.658	18.659	-0.001	87	39760	0.4000	0.2985	
90 n-Decane	57	18.702	18.702	0.000	88	81085	0.4000	0.3863	
91 tert-Butylbenzene	119	18.852	18.853	-0.001	91	105574	0.4000	0.3559	
92 1,2,4-Trimethylbenzene	105	18.863	18.865	-0.002	96	104625	0.4000	0.3552	
93 sec-Butylbenzene	105	19.116	19.117	-0.001	99	149859	0.4000	0.3493	
94 1,3-Dichlorobenzene	146	19.137	19.138	-0.001	97	76440	0.4000	0.3404	
95 Benzyl chloride	91	19.213	19.212	0.001	97	66489	0.4000	0.3219	
96 1,4-Dichlorobenzene	146	19.223	19.224	-0.001	95	73379	0.4000	0.3314	
97 4-Isopropyltoluene	119	19.277	19.277	0.000	97	118416	0.4000	0.3478	
98 1,2,3-Trimethylbenzene	105	19.331	19.333	-0.002	99	106906	0.4000	0.3628	
99 Butylcyclohexane	83	19.379	19.381	-0.002	92	87699	0.4000	0.3769	
100 2,3-Dihydroindene	117	19.578	19.579	-0.001	94	100063	0.4000	0.3523	
101 1,2-Dichlorobenzene	146	19.578	19.582	-0.004	98	76947	0.4000	0.3414	
102 n-Butylbenzene	91	19.702	19.704	-0.002	96	128039	0.4000	0.3600	
103 Indene	116	19.707	19.709	-0.002	94	78710	0.4000	0.3412	
104 Undecane	57	19.998	19.999	-0.001	93	82861	0.4000	0.3474	
105 1,2-Dibromo-3-Chloropropane	157	20.176	20.176	0.000	96	29887	0.4000	0.3136	
106 1,2,4,5-Tetramethylbenzene	119	20.455	20.456	-0.001	96	109331	0.4000	0.3265	
107 Dodecane	57	21.074	21.073	0.001	95	78658	0.4000	0.3140	
108 1,2,4-Trichlorobenzene	180	21.305	21.307	-0.002	95	48375	0.4000	0.2746	
109 Naphthalene	128	21.456	21.456	0.000	99	109091	0.4000	0.2609	
110 Hexachlorobutadiene	225	21.644	21.644	0.000	93	86554	0.4000	0.3230	
111 1,2,3-Trichlorobenzene	180	21.709	21.709	0.000	93	61526	0.4000	0.3285	
112 2-Methylnaphthalene	142	22.263	22.263	0.000	98	26046	0.4000	0.2782	
113 1-Methylnaphthalene	142	22.387	22.388	-0.001	99	35241	0.4000	0.3386	
A 115 C8 Range	1	14.791	(14.748-14.834)		0	257854	0.4000	0.4152	
S 116 Xylenes, Total	100				0		1.20	1.11	
S 117 1,2-Dichloroethene, Total	1				0		0.8000	0.7812	

QC Flag Legend

Processing Flags

Reagents:

40L5DQP_00026	Amount Added: 200.00	Units: mL	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

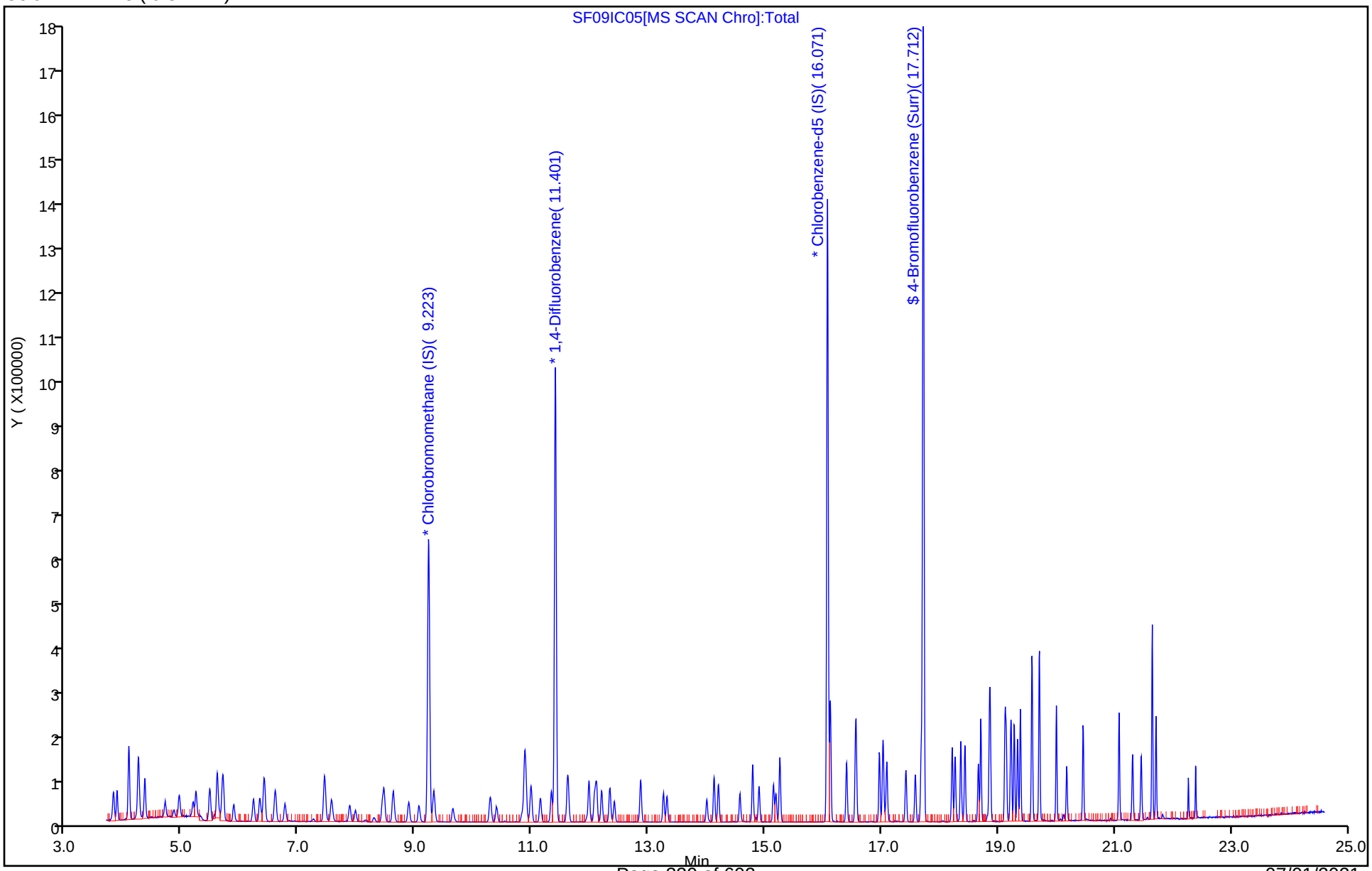
Report Date: 10-Jun-2021 10:12:56 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC05.D

Injection Date:	09-Jun-2021 22:04:30	Instrument ID:	MS	Operator ID:	HMT
Lims ID:	IC L5			Worklist Smp#:	13
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

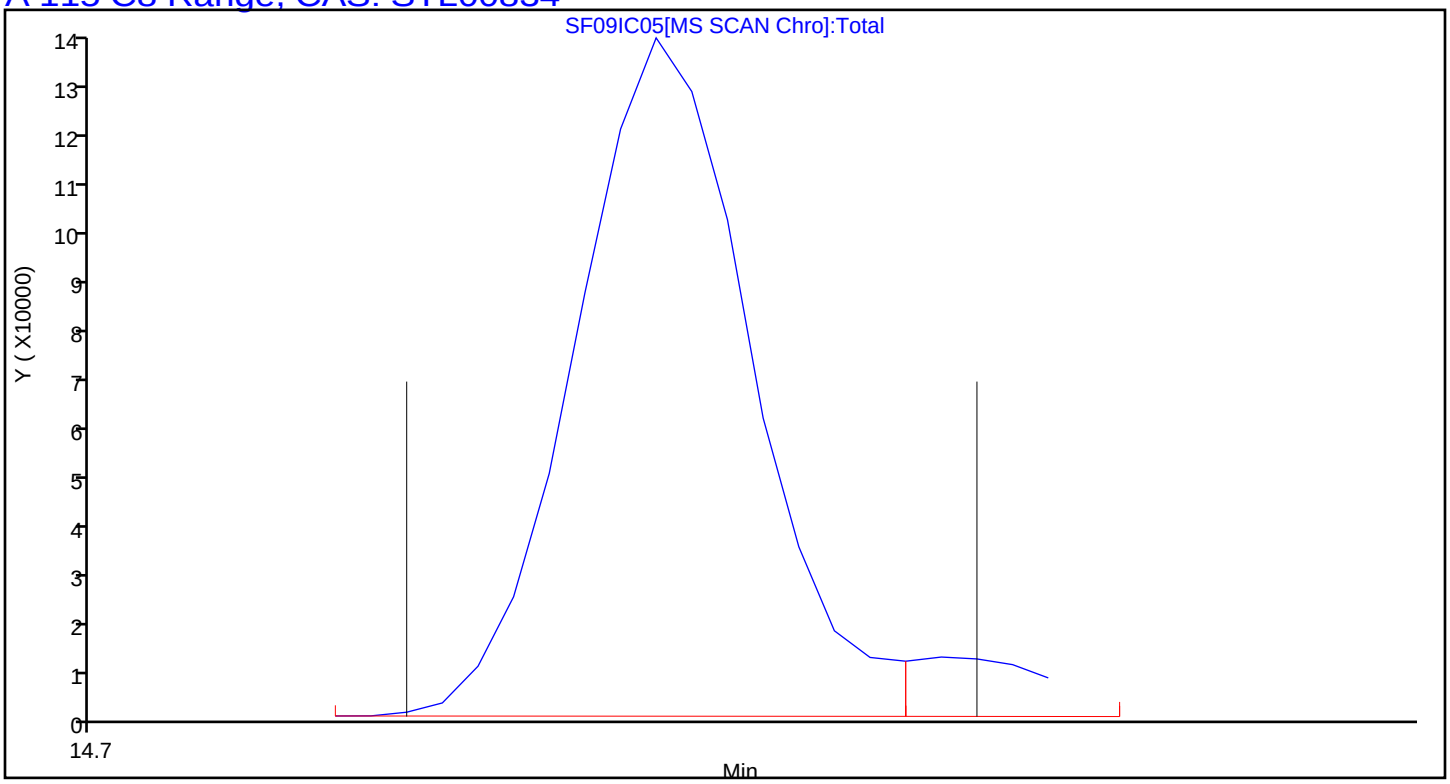


Report Date: 10-Jun-2021 10:12:56 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC05.D				
Injection Date:	09-Jun-2021 22:04:30	Instrument ID:	MS		
Lims ID:	IC L5				
Client ID:					
Operator ID:	HMT	ALS Bottle#:	14	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 115 C8 Range, CAS: STL00834



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC06.D
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 09-Jun-2021 22:54:30 ALS Bottle#: 15 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019525-014
Misc. Info.: 387798
Operator ID: HMT Instrument ID: MS
Sublist: chrom-MS_TO15A*sub1

Method: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\MS_TO15A.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 10-Jun-2021 10:13:01 Calib Date: 09-Jun-2021 23:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1623

First Level Reviewer: tajh Date: 10-Jun-2021 07:21:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.223	9.225	-0.002	98	212198	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.402	11.403	-0.001	94	1057775	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	16.071	16.071	0.000	87	894154	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.712	17.713	-0.001	97	645739	4.64	4.68	
6 Chlorodifluoromethane	51	3.816	3.810	0.006	96	117793	1.00	0.9844	
7 Propene	41	3.827	3.823	0.004	97	51774	1.00	1.02	
8 Dichlorodifluoromethane	85	3.881	3.878	0.003	100	167729	1.00	1.00	
9 Chloromethane	52	4.080	4.074	0.006	58	25005	1.00	1.01	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.085	4.080	0.005	89	152228	1.00	0.9755	
11 Acetaldehyde	44	4.247	4.240	0.007	87	160056	5.00	4.58	
12 Vinyl chloride	62	4.263	4.258	0.005	98	81071	1.00	1.02	
14 Butane	43	4.360	4.354	0.006	85	102060	1.00	1.13	
13 Butadiene	54	4.354	4.352	0.002	71	62553	1.00	1.13	
15 Bromomethane	94	4.710	4.702	0.008	99	66635	1.00	1.00	
16 Chloroethane	64	4.860	4.856	0.004	94	27109	1.00	1.01	
17 Ethanol	31	4.946	4.946	0.000	88	97864	5.00	5.15	
18 Vinyl bromide	106	5.188	5.180	0.008	99	63775	1.00	0.9464	
19 2-Methylbutane	43	5.237	5.230	0.007	92	75462	1.00	1.02	
20 Trichlorofluoromethane	101	5.473	5.468	0.005	99	163456	1.00	0.9819	
21 Acrolein	56	5.479	5.476	0.003	33	21911	1.00	0.9205	
22 Acetonitrile	40	5.549	5.564	-0.015	96	24493	1.00	0.9183	
23 Acetone	58	5.597	5.597	0.000	96	110125	3.00	2.88	
24 Isopropyl alcohol	45	5.678	5.685	-0.007	93	242553	3.00	2.89	
25 Pentane	72	5.705	5.703	0.002	96	7278	1.00	1.05	
26 Ethyl ether	31	5.877	5.877	0.000	93	57061	1.00	1.01	
27 1,1-Dichloroethene	96	6.221	6.219	0.002	94	59482	1.00	0.9810	
29 2-Methyl-2-propanol	59	6.318	6.320	-0.002	94	109844	1.00	0.9666	
28 Acrylonitrile	53	6.323	6.327	-0.004	94	52418	1.00	0.9774	
30 112TCTFE	101	6.404	6.401	0.003	98	139828	1.00	0.9855	
31 Methylene Chloride	84	6.592	6.588	0.004	99	59198	1.00	0.9856	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.608	6.601	0.007	95	42695	1.00	0.9499	
33 Carbon disulfide	76	6.765	6.762	0.002	98	178986	1.00	0.9688	
34 trans-1,2-Dichloroethene	96	7.437	7.433	0.004	94	58814	1.00	0.9846	
35 2-Methylpentane	43	7.448	7.446	0.002	96	139922	1.00	0.9827	
36 Methyl tert-butyl ether	73	7.550	7.558	-0.008	97	149492	1.00	1.00	
37 1,1-Dichloroethane	63	7.873	7.870	0.003	99	127143	1.00	0.9755	
38 Vinyl acetate	43	7.970	7.970	0.000	100	133726	1.00	0.9807	
39 2-Butanone (MEK)	72	8.421	8.432	-0.011	97	27915	1.00	0.9194	
40 Hexane	56	8.459	8.458	0.001	90	52639	1.00	1.01	
41 Isopropyl ether	45	8.610	8.617	-0.007	98	212235	1.00	1.00	
42 cis-1,2-Dichloroethene	96	8.884	8.883	0.001	97	61045	1.00	0.9730	
43 Ethyl acetate	43	9.051	9.060	-0.009	99	137068	1.00	0.9734	
44 Chloroform	83	9.234	9.232	0.002	44	134201	1.00	0.9786	
45 Tert-butyl ethyl ether	59	9.304	9.314	-0.010	95	206839	1.00	1.02	
46 Tetrahydrofuran	42	9.632	9.640	-0.008	94	65770	1.00	0.9862	
47 1,1,1-Trichloroethane	97	10.288	10.285	0.003	97	121582	1.00	0.9730	
48 1,2-Dichloroethane	62	10.390	10.393	-0.003	96	86274	1.00	0.9813	
49 n-Butanol	31	10.815	10.814	0.001	88	16329	1.00	0.8556	
51 Benzene	78	10.875	10.874	0.000	97	190393	1.00	0.9488	
50 Cyclohexane	69	10.875	10.874	0.000	68	27844	1.00	1.00	
52 Carbon tetrachloride	117	10.896	10.897	-0.001	96	106914	1.00	0.8436	
53 2,3-Dimethylpentane	71	10.987	10.985	0.002	91	38640	1.00	1.03	
54 Thiophene	84	11.143	11.143	0.000	98	110091	1.00	1.00	
55 Isooctane	57	11.617	11.613	0.004	98	346609	1.00	1.00	
56 n-Heptane	71	11.977	11.978	-0.001	90	54278	1.00	0.9622	
57 1,2-Dichloropropane	63	12.074	12.073	0.001	96	88754	1.00	0.9827	
58 Trichloroethene	130	12.106	12.106	0.000	97	83320	1.00	0.9353	
59 Dibromomethane	93	12.192	12.194	-0.002	95	81338	1.00	0.9422	
60 Dichlorobromomethane	83	12.332	12.334	-0.002	99	128811	1.00	0.9793	
61 1,4-Dioxane	88	12.338	12.342	-0.004	38	26189	1.00	0.9526	
62 Methyl methacrylate	41	12.408	12.411	-0.003	95	76158	1.00	1.00	
63 Methylcyclohexane	83	12.865	12.865	0.000	94	108344	1.00	0.8982	
64 4-Methyl-2-pentanone (MIBK)	43	13.252	13.254	-0.002	96	144335	1.00	0.9872	
65 cis-1,3-Dichloropropene	75	13.322	13.319	0.003	93	102924	1.00	0.9881	
66 trans-1,3-Dichloropropene	75	14.000	14.001	-0.001	98	84600	1.00	0.9896	
67 Toluene	91	14.124	14.126	-0.002	93	222654	1.00	0.9700	
68 1,1,2-Trichloroethane	83	14.199	14.199	0.000	95	76041	1.00	0.99	
69 2-Hexanone	58	14.565	14.569	-0.004	94	72870	1.00	0.9579	
70 n-Octane	85	14.791	14.786	0.005	94	57846	1.00	1.02	
71 Chlorodibromomethane	129	14.898	14.897	0.001	98	127065	1.00	0.9201	
72 Ethylene Dibromide	107	15.184	15.187	-0.003	97	126946	1.00	0.9698	
73 Tetrachloroethene	129	15.253	15.253	0.000	97	86091	1.00	0.9316	
75 Chlorobenzene	112	16.120	16.119	0.001	86	187825	1.00	0.9563	
74 2,3-Dimethylheptane	43	16.120	16.120	0.000	94	228273	1.00	1.05	
76 Ethylbenzene	91	16.399	16.400	-0.001	98	277967	1.00	0.9766	
77 m-Xylene & p-Xylene	91	16.555	16.559	-0.004	97	445686	2.00	1.95	
78 n-Nonane	57	16.964	16.962	0.002	92	157879	1.00	1.02	
79 Bromoform	173	17.018	17.020	-0.002	97	140985	1.00	0.9539	
80 Styrene	104	17.029	17.028	0.001	98	164378	1.00	0.9706	
81 o-Xylene	91	17.088	17.088	0.000	99	232980	1.00	1.00	
82 1,1,2,2-Tetrachloroethane	83	17.416	17.417	-0.001	99	179690	1.00	0.9850	
83 1,2,3-Trichloropropane	110	17.577	17.580	-0.003	97	38767	1.00	0.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Isopropylbenzene	105	17.680	17.679	0.001	96	313926	1.00	0.9679	
85 N-Propylbenzene	120	18.212	18.212	0.000	99	84715	1.00	0.9736	
86 2-Chlorotoluene	126	18.261	18.261	0.000	97	83521	1.00	0.9664	
87 4-Ethyltoluene	105	18.357	18.359	-0.002	99	325886	1.00	0.9757	
88 1,3,5-Trimethylbenzene	120	18.433	18.430	0.003	92	125329	1.00	0.9560	
89 Alpha Methyl Styrene	118	18.659	18.659	0.000	88	121344	1.00	0.9020	
90 n-Decane	57	18.702	18.702	0.000	87	220553	1.00	1.04	
91 tert-Butylbenzene	119	18.852	18.853	-0.001	92	287973	1.00	0.9612	
92 1,2,4-Trimethylbenzene	105	18.863	18.865	-0.002	96	291783	1.00	0.9809	
93 sec-Butylbenzene	105	19.116	19.117	-0.001	99	413677	1.00	0.9549	
94 1,3-Dichlorobenzene	146	19.138	19.138	0.000	98	201820	1.00	0.8901	
95 Benzyl chloride	91	19.213	19.212	0.001	97	193602	1.00	0.9281	
96 1,4-Dichlorobenzene	146	19.224	19.224	0.000	95	197720	1.00	0.8841	
97 4-Isopropyltoluene	119	19.277	19.277	0.000	97	332001	1.00	0.9657	
98 1,2,3-Trimethylbenzene	105	19.331	19.333	-0.002	98	291915	1.00	0.9809	
99 Butylcyclohexane	83	19.380	19.381	-0.001	94	239357	1.00	1.02	
100 2,3-Dihydroindene	117	19.579	19.579	0.000	93	277475	1.00	0.9673	
101 1,2-Dichlorobenzene	146	19.579	19.582	-0.003	96	204454	1.00	0.8984	
102 n-Butylbenzene	91	19.702	19.704	-0.002	96	348950	1.00	0.9716	
103 Indene	116	19.708	19.709	-0.001	90	228821	1.00	0.9824	
104 Undecane	57	19.998	19.999	-0.001	94	248510	1.00	1.03	
105 1,2-Dibromo-3-Chloropropane	157	20.176	20.176	0.000	97	88812	1.00	0.9227	
106 1,2,4,5-Tetramethylbenzene	119	20.456	20.456	0.000	97	322072	1.00	0.9524	
107 Dodecane	57	21.074	21.073	0.001	95	269349	1.00	1.06	
108 1,2,4-Trichlorobenzene	180	21.306	21.307	-0.001	94	150127	1.00	0.8439	
109 Naphthalene	128	21.456	21.456	0.000	99	330620	1.00	0.7830	
110 Hexachlorobutadiene	225	21.644	21.644	0.000	92	256135	1.00	0.9466	
111 1,2,3-Trichlorobenzene	180	21.709	21.709	0.000	93	179269	1.00	0.9478	
112 2-Methylnaphthalene	142	22.263	22.263	0.000	99	92056	1.00	0.9737	
113 1-Methylnaphthalene	142	22.387	22.388	-0.001	98	109485	1.00	1.04	
A 115 C8 Range	1	14.791	(14.742-14.828)		0	617430	1.00	0.9772	
S 116 Xylenes, Total	100				0		3.00	2.94	
S 117 1,2-Dichloroethene, Total	1				0		2.00	1.96	

QC Flag Legend

Processing Flags

Reagents:

40L6DQP_00025	Amount Added: 200.00	Units: mL	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

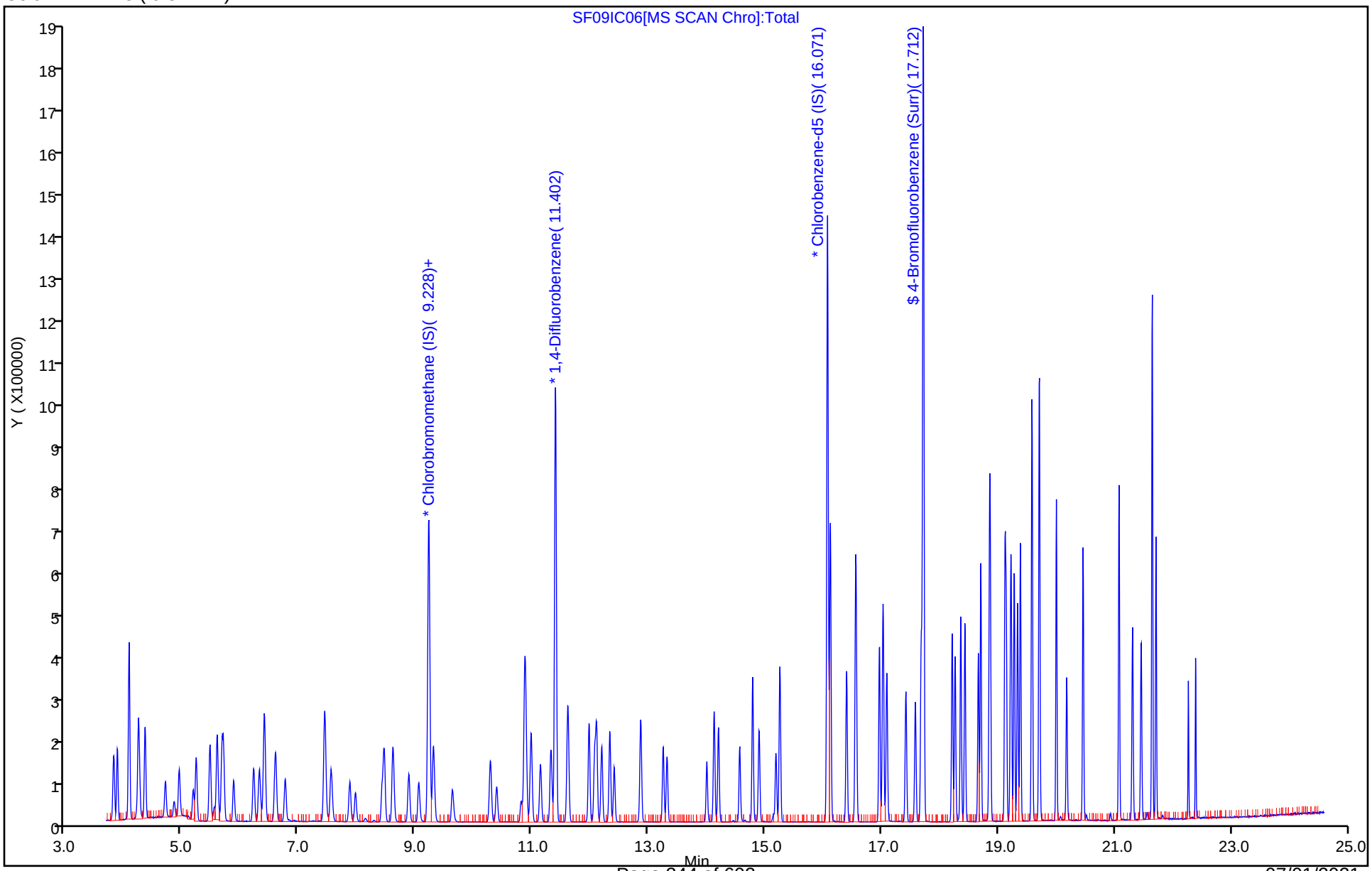
Report Date: 10-Jun-2021 10:13:02 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC06.D

Injection Date:	09-Jun-2021 22:54:30	Instrument ID:	MS	Operator ID:	HMT
Lims ID:	IC L6			Worklist Smp#:	14
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

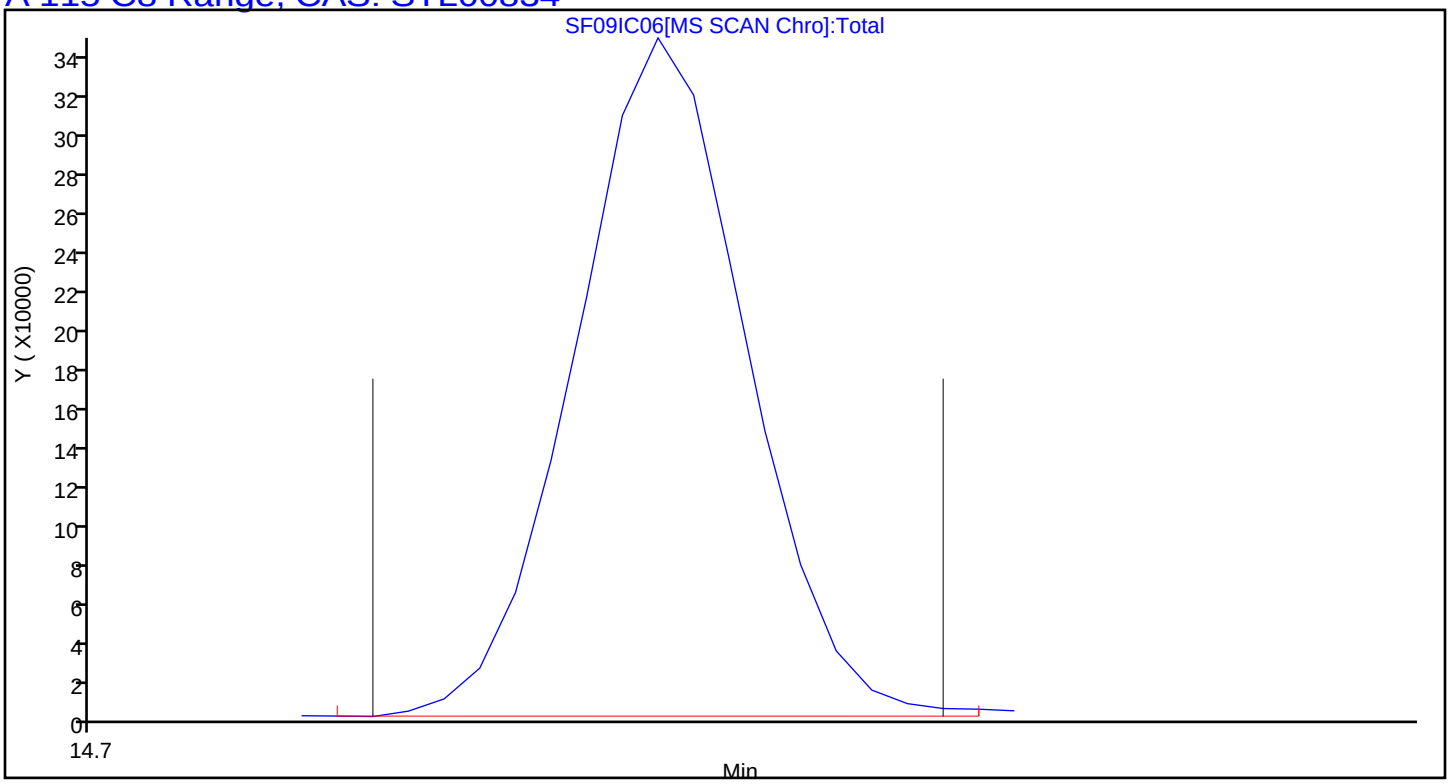


Report Date: 10-Jun-2021 10:13:02 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC06.D				
Injection Date:	09-Jun-2021 22:54:30	Instrument ID:	MS		
Lims ID:	IC L6				
Client ID:					
Operator ID:	HMT	ALS Bottle#:	15	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 115 C8 Range, CAS: STL00834



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D
Lims ID: ICIS L7
Client ID:
Sample Type: ICIS Calib Level: 7
Inject. Date: 09-Jun-2021 23:44:30 ALS Bottle#: 16 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019525-015
Misc. Info.: 387537
Operator ID: HMT Instrument ID: MS
Sublist: chrom-MS_TO15A*sub1

Method: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\MS_TO15A.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 10-Jun-2021 10:13:08 Calib Date: 09-Jun-2021 23:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1623

First Level Reviewer: tajh Date: 10-Jun-2021 07:15:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.228	9.225	0.003	98	216764	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.401	11.403	-0.002	94	1091989	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	16.071	16.071	0.000	86	934893	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.712	17.713	-0.001	96	687804	4.64	4.77	
6 Chlorodifluoromethane	51	3.811	3.810	0.001	96	246215	2.00	2.01	
7 Propene	41	3.822	3.823	-0.001	98	104777	2.00	2.01	
8 Dichlorodifluoromethane	85	3.881	3.878	0.003	100	348698	2.00	2.03	
9 Chloromethane	52	4.074	4.074	0.000	99	52090	2.00	2.05	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.080	4.080	0.000	95	324512	2.00	2.04	
11 Acetaldehyde	44	4.241	4.240	0.001	87	305142	10.0	8.55	
12 Vinyl chloride	62	4.263	4.258	0.005	98	170156	2.00	2.10	
13 Butadiene	54	4.354	4.352	0.002	70	126837	2.00	2.24	
14 Butane	43	4.360	4.354	0.006	85	212849	2.00	2.30	
15 Bromomethane	94	4.704	4.702	0.002	99	144428	2.00	2.13	
16 Chloroethane	64	4.860	4.856	0.004	95	61015	2.00	2.23	
17 Ethanol	31	4.941	4.946	-0.005	88	225592	10.0	11.6	
18 Vinyl bromide	106	5.183	5.180	0.003	99	146563	2.00	2.13	
19 2-Methylbutane	43	5.236	5.230	0.006	89	143066	2.00	1.88	
20 Trichlorofluoromethane	101	5.468	5.468	0.000	99	346437	2.00	2.04	
21 Acrolein	56	5.479	5.476	0.003	85	48694	2.00	2.00	
22 Acetonitrile	40	5.543	5.564	-0.021	99	55209	2.00	2.03	
23 Acetone	58	5.591	5.597	-0.006	96	216876	6.00	6.32	
24 Isopropyl alcohol	45	5.672	5.685	-0.013	92	544844	6.00	6.36	
25 Pentane	72	5.704	5.703	0.001	94	14746	2.00	2.08	
26 Ethyl ether	31	5.871	5.877	-0.006	93	119552	2.00	2.06	
27 1,1-Dichloroethene	96	6.221	6.219	0.002	94	125328	2.00	2.02	
29 2-Methyl-2-propanol	59	6.307	6.320	-0.013	93	242896	2.00	2.09	
28 Acrylonitrile	53	6.328	6.327	0.001	95	108307	2.00	1.98	
30 112TCTFE	101	6.404	6.401	0.003	98	293810	2.00	2.03	
31 Methylene Chloride	84	6.592	6.588	0.004	99	120818	2.00	1.97	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.603	6.601	0.002	94	94246	2.00	2.05	
33 Carbon disulfide	76	6.764	6.762	0.002	98	375786	2.00	1.99	
34 trans-1,2-Dichloroethene	96	7.431	7.433	-0.002	94	124015	2.00	2.03	
35 2-Methylpentane	43	7.447	7.446	0.001	96	298371	2.00	2.05	
36 Methyl tert-butyl ether	73	7.544	7.558	-0.014	97	317918	2.00	2.08	
37 1,1-Dichloroethane	63	7.872	7.870	0.002	99	263235	2.00	1.98	
38 Vinyl acetate	43	7.964	7.970	-0.006	100	293532	2.00	2.11	
39 2-Butanone (MEK)	72	8.427	8.432	-0.005	97	58687	2.00	1.89	
40 Hexane	56	8.464	8.458	0.006	89	107471	2.00	2.02	
41 Isopropyl ether	45	8.609	8.617	-0.008	98	449448	2.00	2.07	
42 cis-1,2-Dichloroethene	96	8.884	8.883	0.001	98	129946	2.00	2.03	
43 Ethyl acetate	43	9.051	9.060	-0.009	99	292128	2.00	2.03	
44 Chloroform	83	9.233	9.232	0.001	95	279073	2.00	1.99	
45 Tert-butyl ethyl ether	59	9.303	9.314	-0.011	94	441319	2.00	2.12	
46 Tetrahydrofuran	42	9.626	9.640	-0.014	95	142183	2.00	2.09	
47 1,1,1-Trichloroethane	97	10.282	10.285	-0.003	97	257084	2.00	2.01	
48 1,2-Dichloroethane	62	10.395	10.393	0.002	96	180881	2.00	1.99	
49 n-Butanol	31	10.804	10.814	-0.010	86	40712	2.00	2.07	
51 Benzene	78	10.874	10.874	0.000	97	401261	2.00	1.94	
50 Cyclohexane	69	10.874	10.874	0.000	67	58552	2.00	2.04	
52 Carbon tetrachloride	117	10.896	10.897	-0.001	97	275363	2.00	2.10	
53 2,3-Dimethylpentane	71	10.982	10.985	-0.003	92	81749	2.00	2.10	
54 Thiophene	84	11.149	11.143	0.006	97	231173	2.00	2.03	
55 Isooctane	57	11.611	11.613	-0.002	98	735455	2.00	2.05	
56 n-Heptane	71	11.977	11.978	-0.001	91	125659	2.00	2.16	
57 1,2-Dichloropropane	63	12.074	12.073	0.001	97	185423	2.00	1.99	
58 Trichloroethene	130	12.106	12.106	0.000	97	174035	2.00	1.89	
59 Dibromomethane	93	12.198	12.194	0.004	95	169861	2.00	1.91	
60 Dichlorobromomethane	83	12.337	12.334	0.003	99	275272	2.00	2.03	
61 1,4-Dioxane	88	12.332	12.342	-0.010	40	62173	2.00	2.19	
62 Methyl methacrylate	41	12.413	12.411	0.002	95	166371	2.00	2.11	
63 Methylcyclohexane	83	12.865	12.865	0.000	95	235915	2.00	1.89	
64 4-Methyl-2-pentanone (MIBK)	43	13.247	13.254	-0.007	96	312326	2.00	2.07	
65 cis-1,3-Dichloropropene	75	13.317	13.319	-0.002	92	220235	2.00	2.05	
66 trans-1,3-Dichloropropene	75	14.000	14.001	-0.001	97	188531	2.00	2.11	
67 Toluene	91	14.123	14.126	-0.003	92	482110	2.00	2.01	
68 1,1,2-Trichloroethane	83	14.199	14.199	0.000	95	159671	2.00	1.99	
69 2-Hexanone	58	14.559	14.569	-0.010	94	168180	2.00	2.11	
70 n-Octane	85	14.785	14.786	-0.001	93	126250	2.00	2.13	
71 Chlorodibromomethane	129	14.898	14.897	0.001	98	299128	2.00	2.07	
72 Ethylene Dibromide	107	15.189	15.187	0.002	98	273499	2.00	2.00	
73 Tetrachloroethene	129	15.253	15.253	0.000	98	185793	2.00	1.92	
75 Chlorobenzene	112	16.119	16.119	0.000	87	399481	2.00	1.95	
74 2,3-Dimethylheptane	43	16.119	16.120	-0.001	95	483555	2.00	2.13	
76 Ethylbenzene	91	16.399	16.400	-0.001	98	603211	2.00	2.03	
77 m-Xylene & p-Xylene	91	16.555	16.559	-0.004	97	971700	4.00	4.06	
78 n-Nonane	57	16.964	16.962	0.002	92	343724	2.00	2.13	
79 Bromoform	173	17.023	17.020	0.003	98	342957	2.00	2.22	
80 Styrene	104	17.028	17.028	0.000	98	371654	2.00	2.10	
81 o-Xylene	91	17.088	17.088	0.000	100	502776	2.00	2.05	
82 1,1,2,2-Tetrachloroethane	83	17.416	17.417	-0.001	99	389642	2.00	2.04	
83 1,2,3-Trichloropropane	110	17.577	17.580	-0.003	98	84024	2.00	2.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Isopropylbenzene	105	17.679	17.679	0.000	95	693098	2.00	2.04	
85 N-Propylbenzene	120	18.212	18.212	0.000	99	188697	2.00	2.07	
86 2-Chlorotoluene	126	18.260	18.261	-0.001	97	180877	2.00	2.00	
87 4-Ethyltoluene	105	18.357	18.359	-0.002	99	722143	2.00	2.07	
88 1,3,5-Trimethylbenzene	120	18.427	18.430	-0.003	93	284184	2.00	2.07	
89 Alpha Methyl Styrene	118	18.658	18.659	-0.001	89	292054	2.00	2.08	
90 n-Decane	57	18.702	18.702	0.000	87	469544	2.00	2.12	
91 tert-Butylbenzene	119	18.852	18.853	-0.001	94	634346	2.00	2.03	
92 1,2,4-Trimethylbenzene	105	18.863	18.865	-0.002	96	640766	2.00	2.06	
93 sec-Butylbenzene	105	19.116	19.117	-0.001	99	915453	2.00	2.02	
94 1,3-Dichlorobenzene	146	19.137	19.138	-0.001	97	454199	2.00	1.92	
95 Benzyl chloride	91	19.213	19.212	0.001	98	448531	2.00	2.06	
96 1,4-Dichlorobenzene	146	19.223	19.224	-0.001	96	448040	2.00	1.92	
97 4-Isopropyltoluene	119	19.277	19.277	0.000	97	734694	2.00	2.04	
98 1,2,3-Trimethylbenzene	105	19.331	19.333	-0.002	99	641557	2.00	2.06	
99 Butylcyclohexane	83	19.379	19.381	-0.002	94	510617	2.00	2.08	
100 2,3-Dihydroindene	117	19.578	19.579	-0.001	94	620812	2.00	2.07	
101 1,2-Dichlorobenzene	146	19.584	19.582	0.002	99	460974	2.00	1.94	
102 n-Butylbenzene	91	19.702	19.704	-0.002	96	775534	2.00	2.07	
103 Indene	116	19.708	19.709	-0.001	87	526667	2.00	2.16	
104 Undecane	57	19.998	19.999	-0.001	93	542785	2.00	2.16	
105 1,2-Dibromo-3-Chloropropane	157	20.176	20.176	0.000	96	206567	2.00	2.05	
106 1,2,4,5-Tetramethylbenzene	119	20.455	20.456	-0.001	97	706367	2.00	2.00	
107 Dodecane	57	21.074	21.073	0.001	95	526404	2.00	1.99	
108 1,2,4-Trichlorobenzene	180	21.305	21.307	-0.002	93	336706	2.00	1.81	
109 Naphthalene	128	21.456	21.456	0.000	99	704835	2.00	1.60	
110 Hexachlorobutadiene	225	21.644	21.644	0.000	91	538903	2.00	1.90	
111 1,2,3-Trichlorobenzene	180	21.709	21.709	0.000	93	364787	2.00	1.84	
112 2-Methylnaphthalene	142	22.263	22.263	0.000	99	192754	2.00	1.95	
113 1-Methylnaphthalene	142	22.387	22.388	-0.001	99	210255	2.00	1.91	
A 115 C8 Range	1	14.790	(14.737-14.834)		0	1307627	2.00	2.00	
S 116 Xylenes, Total	100				0		6.00	6.12	
S 117 1,2-Dichloroethene, Total	1				0		4.00	4.06	

QC Flag Legend

Processing Flags

Reagents:

40L7DQP_00025	Amount Added: 200.00	Units: mL	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

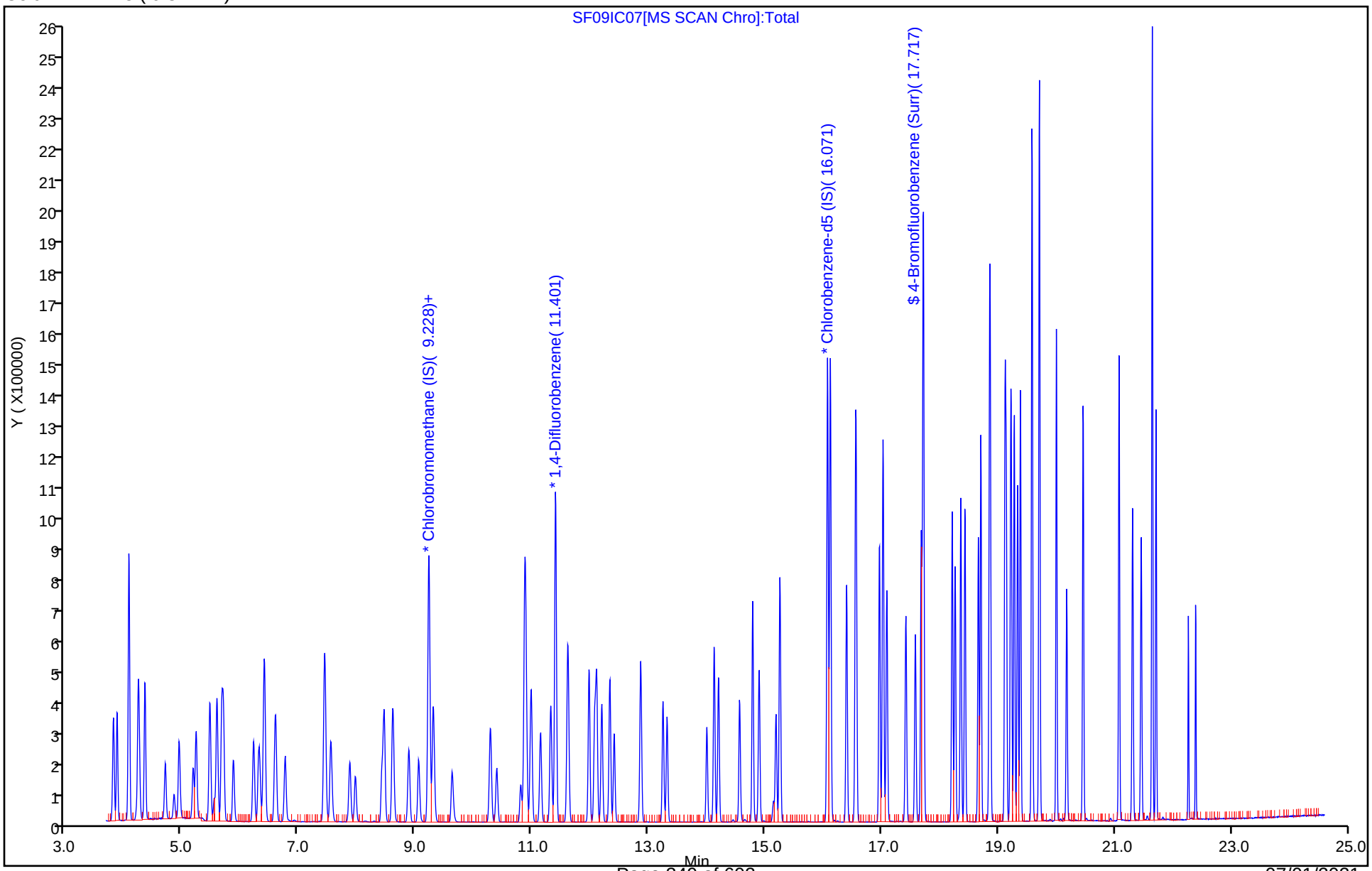
Report Date: 10-Jun-2021 10:13:09 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D

Injection Date:	09-Jun-2021 23:44:30	Instrument ID:	MS	Operator ID:	HMT
Lims ID:	ICIS L7			Worklist Smp#:	15
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)

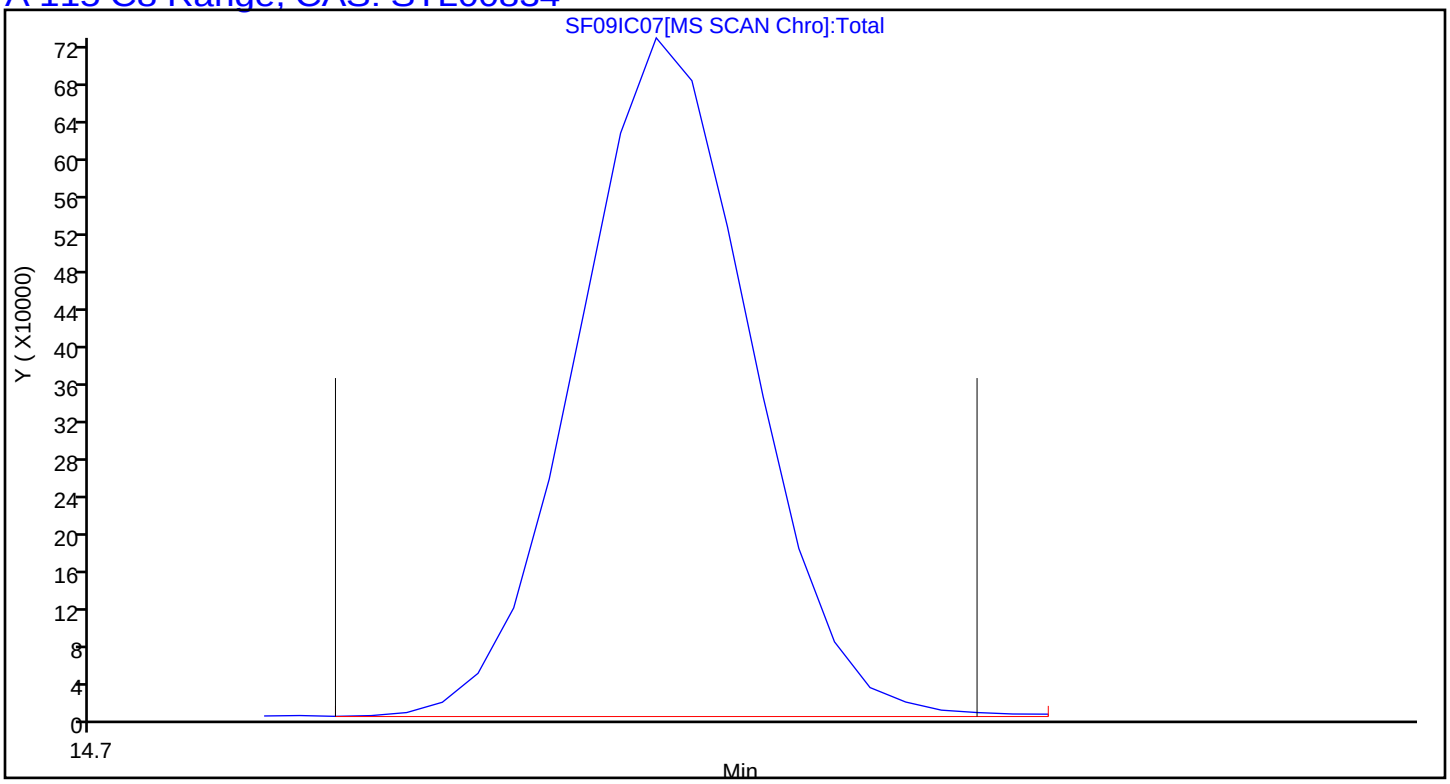


Report Date: 10-Jun-2021 10:13:09 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D				
Injection Date:	09-Jun-2021 23:44:30	Instrument ID:	MS		
Lims ID:	ICIS L7				
Client ID:					
Operator ID:	HMT	ALS Bottle#:	16	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

A 115 C8 Range, CAS: STL00834



Calibration / Chlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

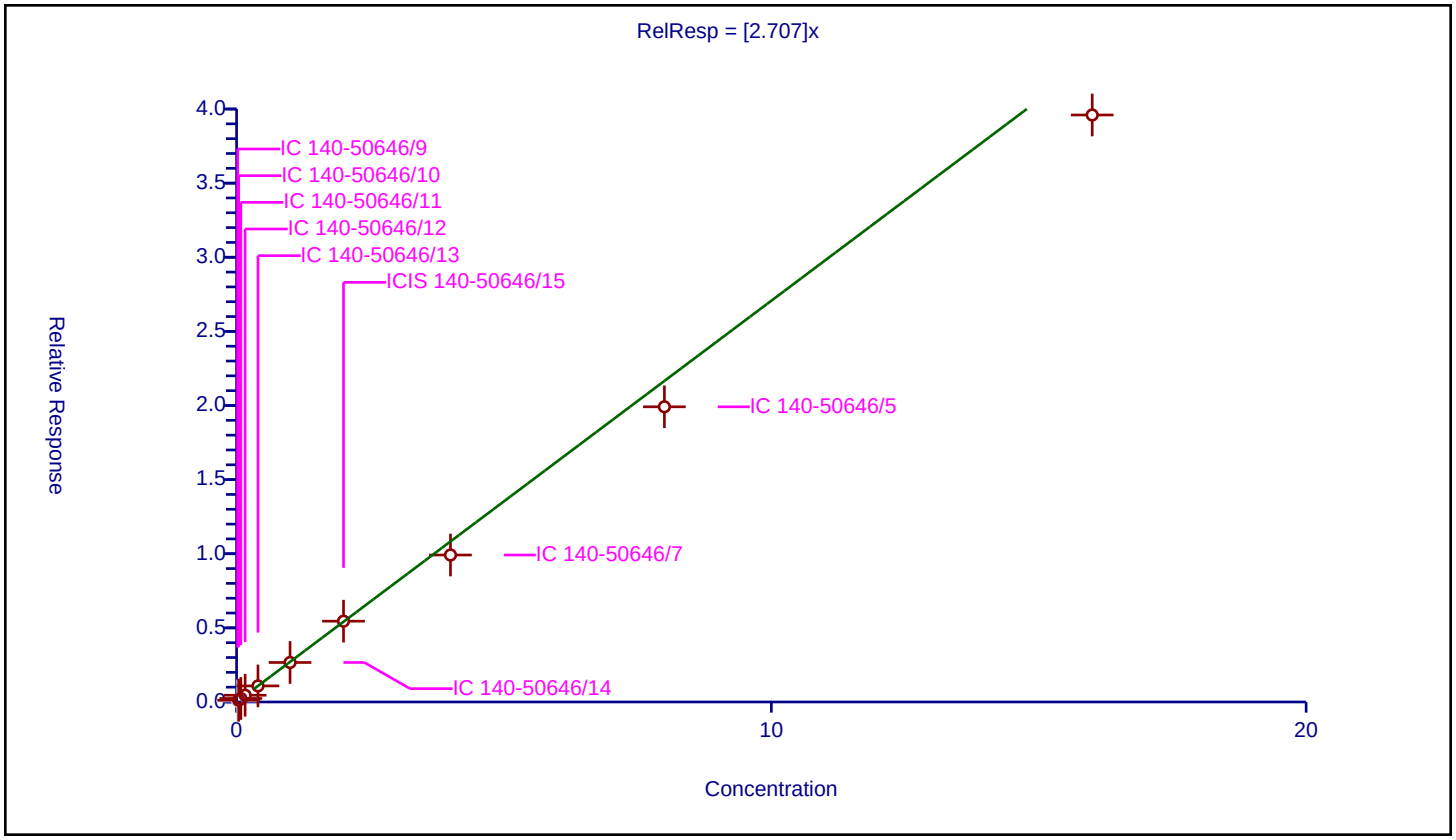
Curve Coefficients

Intercept:	0
Slope:	2.707

Error Coefficients

Standard Error:	765000
Relative Standard Error:	7.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.067646	4.8	233807.0	3.382277	N
2	IC 140-50646/10	0.04	0.120308	4.8	216166.0	3.007689	Y
3	IC 140-50646/11	0.08	0.236561	4.8	206580.0	2.957014	Y
4	IC 140-50646/12	0.16	0.456375	4.8	198237.0	2.852343	Y
5	IC 140-50646/13	0.4	1.084574	4.8	204286.0	2.711434	Y
6	IC 140-50646/14	1.0	2.664523	4.8	212198.0	2.664523	Y
7	ICIS 140-50646/15	2.0	5.45216	4.8	216764.0	2.72608	Y
8	IC 140-50646/7	4.0	9.91452	4.8	248836.0	2.47863	Y
9	IC 140-50646/5	8.0	19.912708	4.8	242745.0	2.489089	Y
10	IC 140-50646/3	16.0	39.596925	4.8	220902.0	2.474808	Y



Calibration / Propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

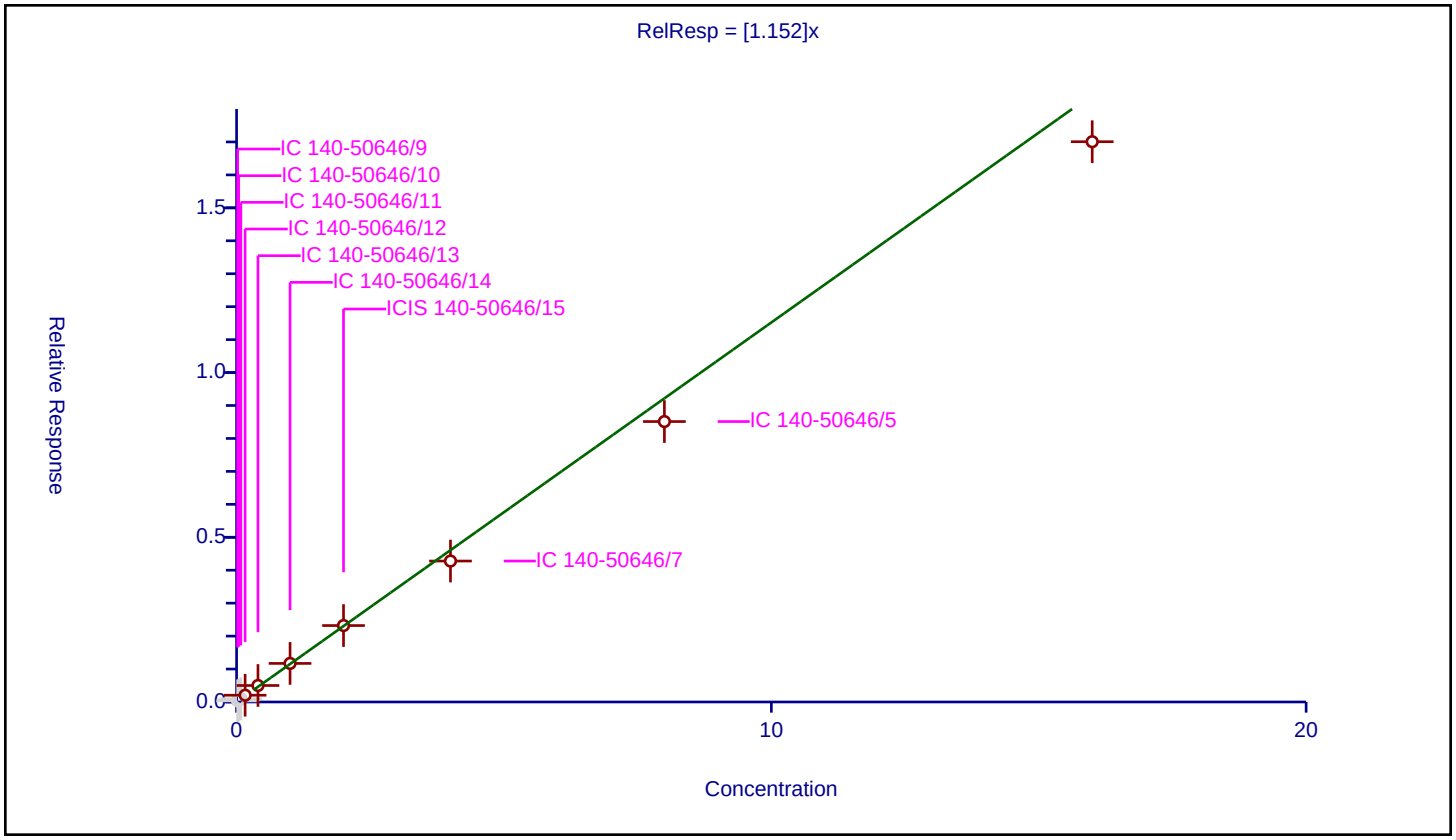
Curve Coefficients

Intercept:	0
Slope:	1.152

Error Coefficients

Standard Error:	379000
Relative Standard Error:	8.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.034162	4.8	233807.0	1.708075	N
2	IC 140-50646/10	0.04	0.060664	4.8	216166.0	1.516612	N
3	IC 140-50646/11	0.08	0.097566	4.8	206580.0	1.219576	N
4	IC 140-50646/12	0.16	0.205548	4.8	198237.0	1.284674	Y
5	IC 140-50646/13	0.4	0.500733	4.8	204286.0	1.251833	Y
6	IC 140-50646/14	1.0	1.171148	4.8	212198.0	1.171148	Y
7	ICIS 140-50646/15	2.0	2.320171	4.8	216764.0	1.160086	Y
8	IC 140-50646/7	4.0	4.278288	4.8	248836.0	1.069572	Y
9	IC 140-50646/5	8.0	8.513131	4.8	242745.0	1.064141	Y
10	IC 140-50646/3	16.0	17.007448	4.8	220902.0	1.062965	Y



Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

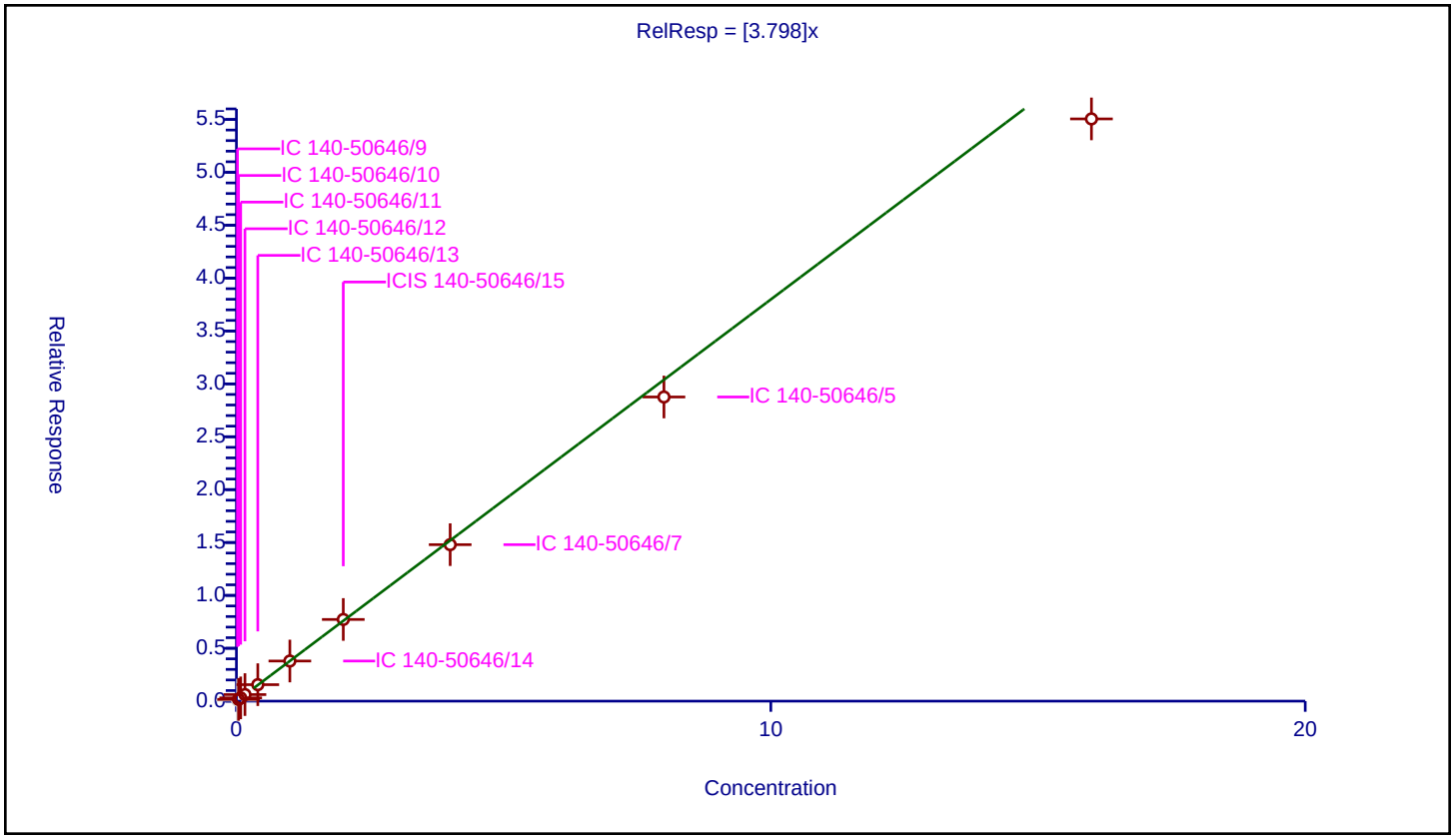
Curve Coefficients

Intercept:	0
Slope:	3.798

Error Coefficients

Standard Error:	1080000
Relative Standard Error:	5.4
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.097373	4.8	233807.0	4.868631	N
2	IC 140-50646/10	0.04	0.166694	4.8	216166.0	4.167353	Y
3	IC 140-50646/11	0.08	0.308568	4.8	206580.0	3.857101	Y
4	IC 140-50646/12	0.16	0.620009	4.8	198237.0	3.875059	Y
5	IC 140-50646/13	0.4	1.557699	4.8	204286.0	3.894246	Y
6	IC 140-50646/14	1.0	3.794094	4.8	212198.0	3.794094	Y
7	ICIS 140-50646/15	2.0	7.721533	4.8	216764.0	3.860767	Y
8	IC 140-50646/7	4.0	14.795615	4.8	248836.0	3.698904	Y
9	IC 140-50646/5	8.0	28.757981	4.8	242745.0	3.594748	Y
10	IC 140-50646/3	16.0	55.052938	4.8	220902.0	3.440809	Y



Calibration / 1,2-Dichloro-1,1,2,2-tetrafluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

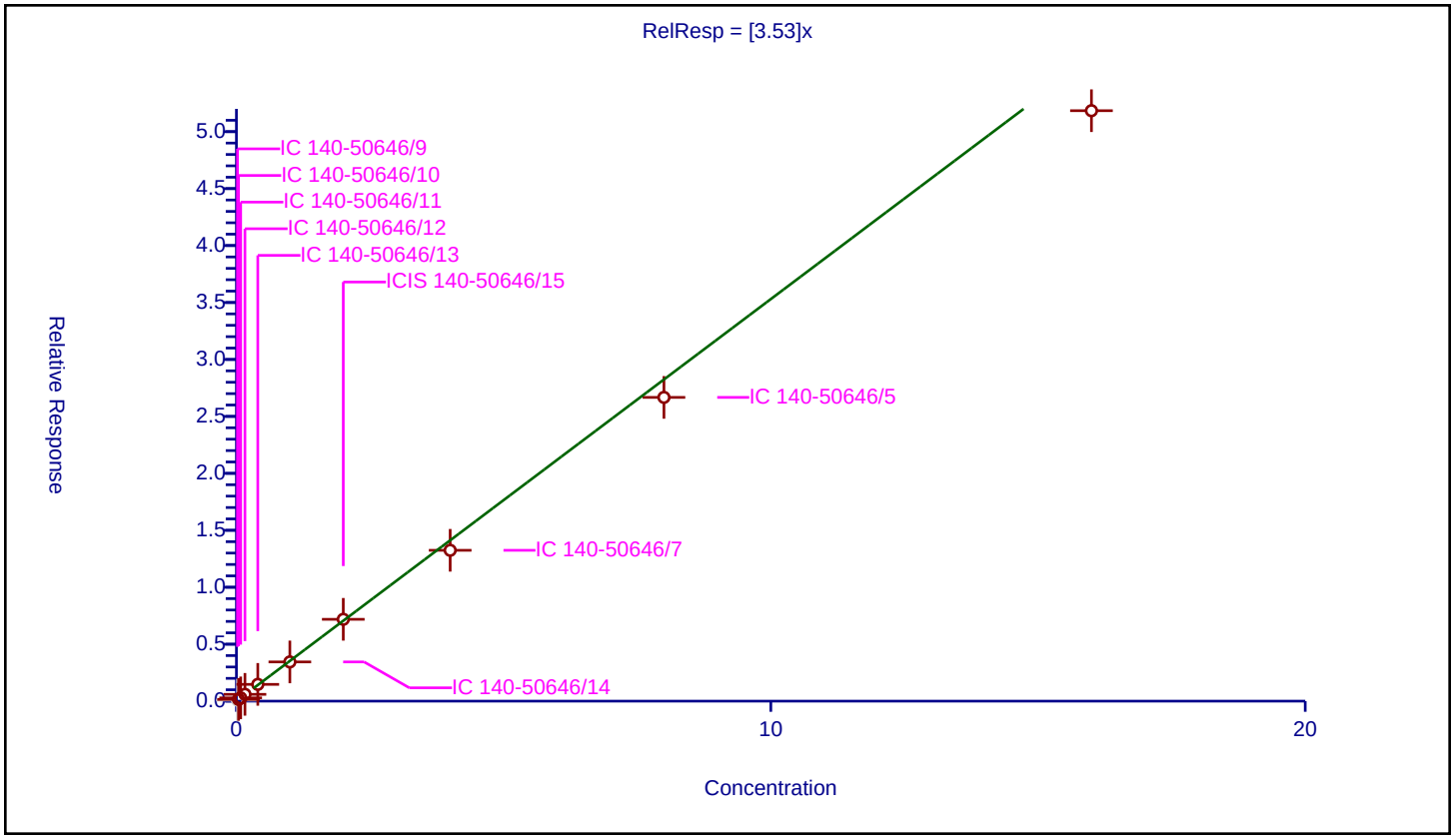
Curve Coefficients

Intercept:	0
Slope:	3.53

Error Coefficients

Standard Error:	1010000
Relative Standard Error:	5.9
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.091583	4.8	233807.0	4.579161	N
2	IC 140-50646/10	0.04	0.153815	4.8	216166.0	3.845378	Y
3	IC 140-50646/11	0.08	0.287029	4.8	206580.0	3.587859	Y
4	IC 140-50646/12	0.16	0.59812	4.8	198237.0	3.738253	Y
5	IC 140-50646/13	0.4	1.471161	4.8	204286.0	3.677903	Y
6	IC 140-50646/14	1.0	3.443456	4.8	212198.0	3.443456	Y
7	ICIS 140-50646/15	2.0	7.185961	4.8	216764.0	3.59298	Y
8	IC 140-50646/7	4.0	13.244444	4.8	248836.0	3.311111	Y
9	IC 140-50646/5	8.0	26.669567	4.8	242745.0	3.333696	Y
10	IC 140-50646/3	16.0	51.840204	4.8	220902.0	3.240013	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

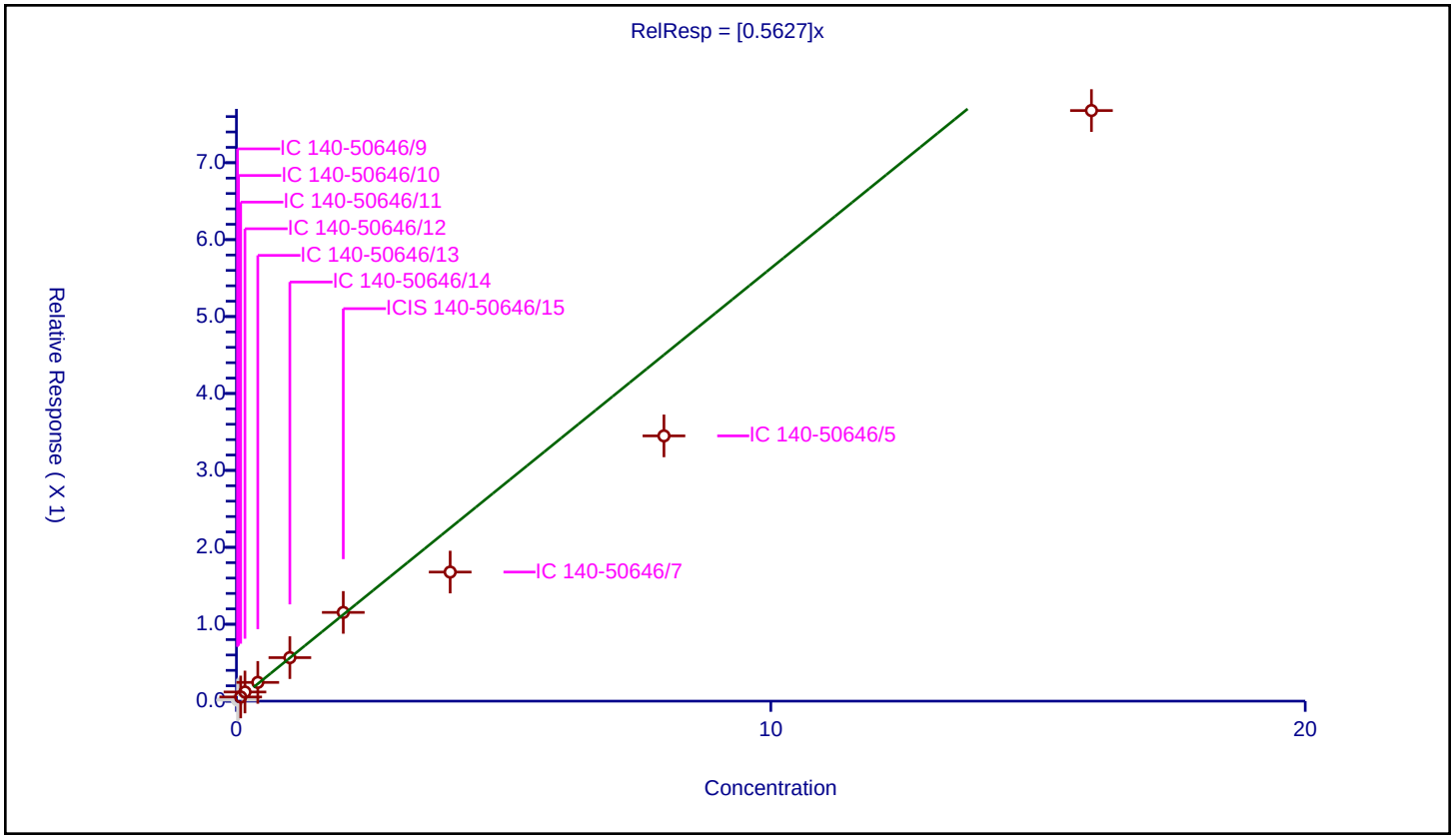
Curve Coefficients

Intercept:	0
Slope:	0.5627

Error Coefficients

Standard Error:	154000
Relative Standard Error:	20.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.935

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.013447	4.8	233807.0	0.672349	N
2	IC 140-50646/10	0.04	0.027601	4.8	216166.0	0.690025	N
3	IC 140-50646/11	0.08	0.054092	4.8	206580.0	0.676155	Y
4	IC 140-50646/12	0.16	0.119009	4.8	198237.0	0.743807	Y
5	IC 140-50646/13	0.4	0.243635	4.8	204286.0	0.609087	Y
6	IC 140-50646/14	1.0	0.565623	4.8	212198.0	0.565623	Y
7	ICIS 140-50646/15	2.0	1.153476	4.8	216764.0	0.576738	Y
8	IC 140-50646/7	4.0	1.678137	4.8	248836.0	0.419534	Y
9	IC 140-50646/5	8.0	3.448834	4.8	242745.0	0.431104	Y
10	IC 140-50646/3	16.0	7.67854	4.8	220902.0	0.479909	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

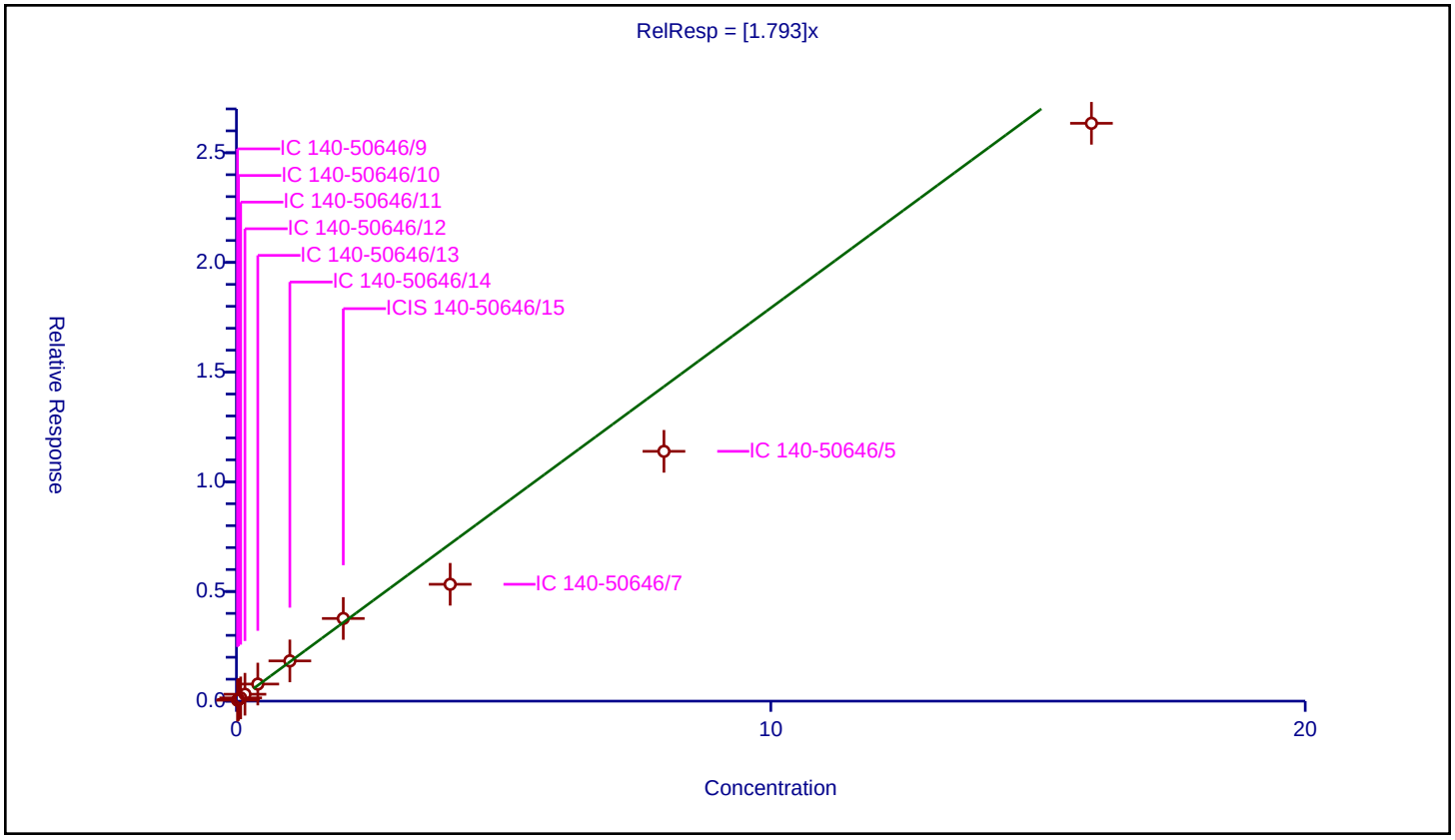
Curve Coefficients

Intercept:	0
Slope:	1.793

Error Coefficients

Standard Error:	461000
Relative Standard Error:	13.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.041737	4.8	233807.0	2.086849	Y
2	IC 140-50646/10	0.04	0.078096	4.8	216166.0	1.952388	Y
3	IC 140-50646/11	0.08	0.147778	4.8	206580.0	1.847226	Y
4	IC 140-50646/12	0.16	0.315429	4.8	198237.0	1.971428	Y
5	IC 140-50646/13	0.4	0.779331	4.8	204286.0	1.948327	Y
6	IC 140-50646/14	1.0	1.833857	4.8	212198.0	1.833857	Y
7	ICIS 140-50646/15	2.0	3.767917	4.8	216764.0	1.883959	Y
8	IC 140-50646/7	4.0	5.327056	4.8	248836.0	1.331764	Y
9	IC 140-50646/5	8.0	11.388168	4.8	242745.0	1.423521	Y
10	IC 140-50646/3	16.0	26.342874	4.8	220902.0	1.64643	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

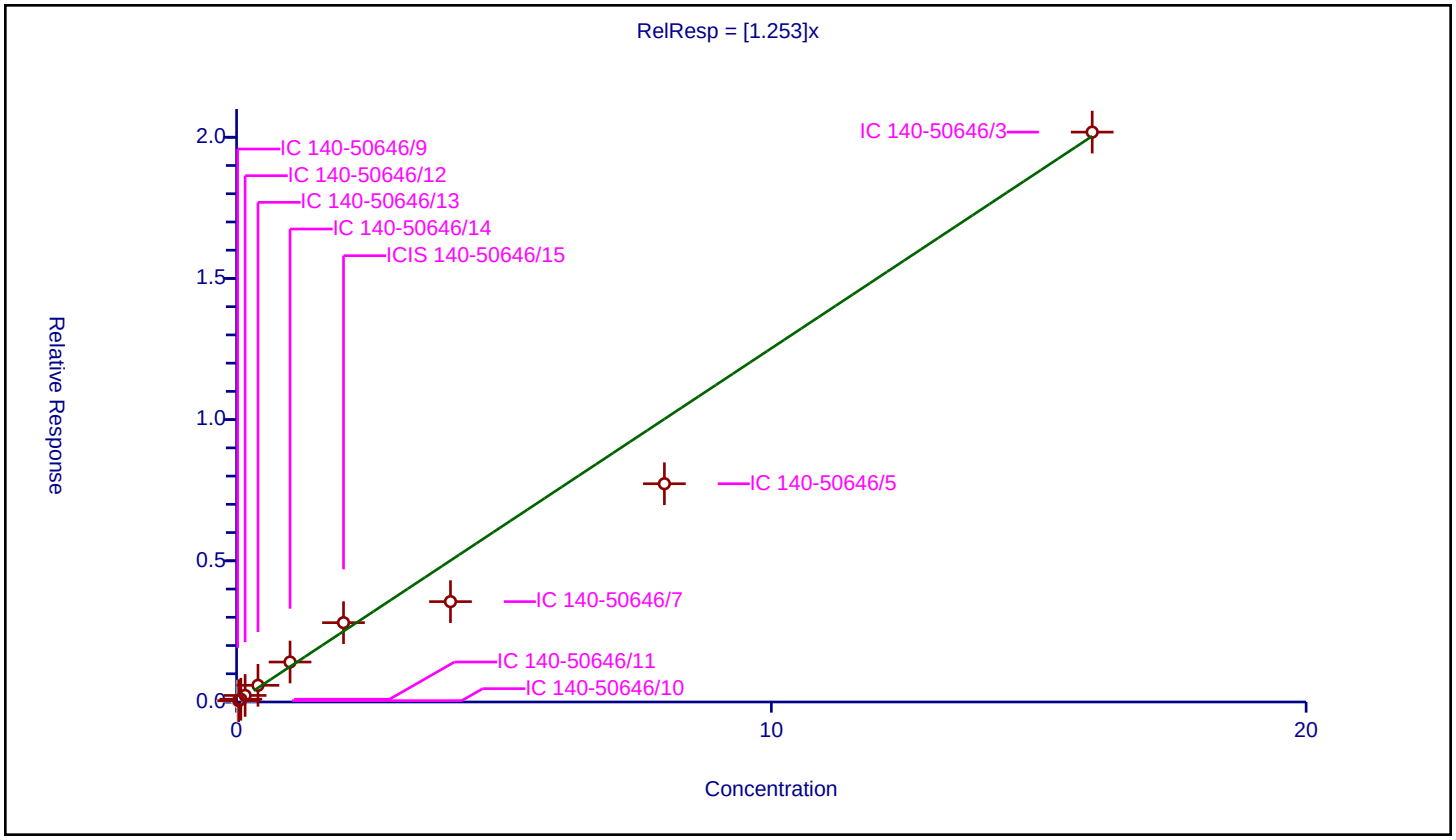
Curve Coefficients

Intercept:	0
Slope:	1.253

Error Coefficients

Standard Error:	366000
Relative Standard Error:	16.9
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.964

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.030179	4.8	233807.0	1.508937	N
2	IC 140-50646/10	0.04	0.047386	4.8	216166.0	1.184645	Y
3	IC 140-50646/11	0.08	0.098077	4.8	206580.0	1.225966	Y
4	IC 140-50646/12	0.16	0.232134	4.8	198237.0	1.450839	Y
5	IC 140-50646/13	0.4	0.590302	4.8	204286.0	1.475755	Y
6	IC 140-50646/14	1.0	1.414973	4.8	212198.0	1.414973	Y
7	ICIS 140-50646/15	2.0	2.808666	4.8	216764.0	1.404333	Y
8	IC 140-50646/7	4.0	3.553897	4.8	248836.0	0.888474	Y
9	IC 140-50646/5	8.0	7.729553	4.8	242745.0	0.966194	Y
10	IC 140-50646/3	16.0	20.182285	4.8	220902.0	1.261393	Y



Calibration / Butane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

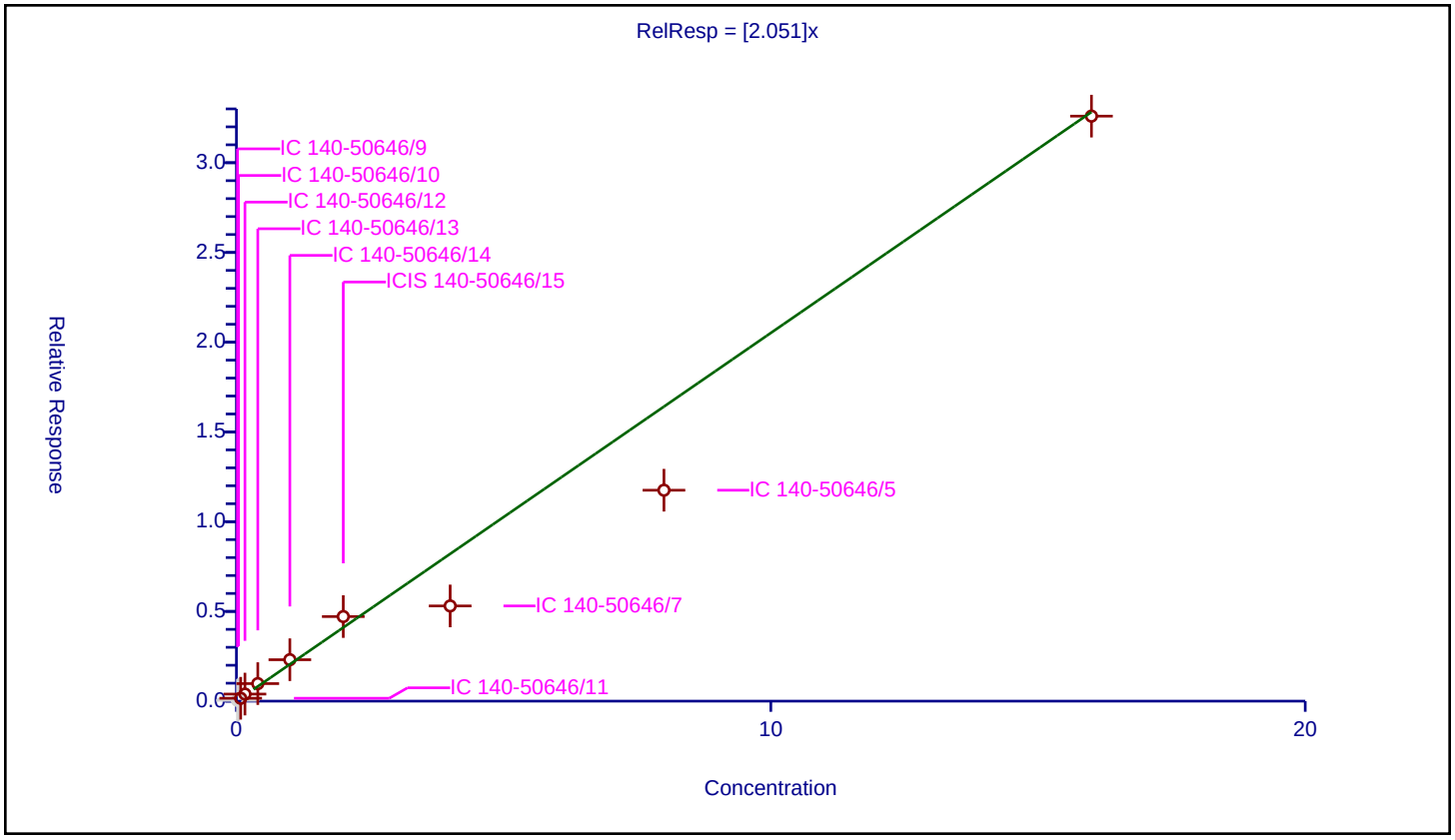
Curve Coefficients

Intercept:	0
Slope:	2.051

Error Coefficients

Standard Error:	625000
Relative Standard Error:	21.4
Correlation Coefficient:	0.985
Coefficient of Determination (Adjusted):	0.939

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.044098	4.8	233807.0	2.204895	N
2	IC 140-50646/10	0.04	0.098014	4.8	216166.0	2.450339	N
3	IC 140-50646/11	0.08	0.160325	4.8	206580.0	2.004066	Y
4	IC 140-50646/12	0.16	0.394728	4.8	198237.0	2.467047	Y
5	IC 140-50646/13	0.4	0.977148	4.8	204286.0	2.442869	Y
6	IC 140-50646/14	1.0	2.308636	4.8	212198.0	2.308636	Y
7	ICIS 140-50646/15	2.0	4.713307	4.8	216764.0	2.356653	Y
8	IC 140-50646/7	4.0	5.304544	4.8	248836.0	1.326136	Y
9	IC 140-50646/5	8.0	11.753391	4.8	242745.0	1.469174	Y
10	IC 140-50646/3	16.0	32.596833	4.8	220902.0	2.037302	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

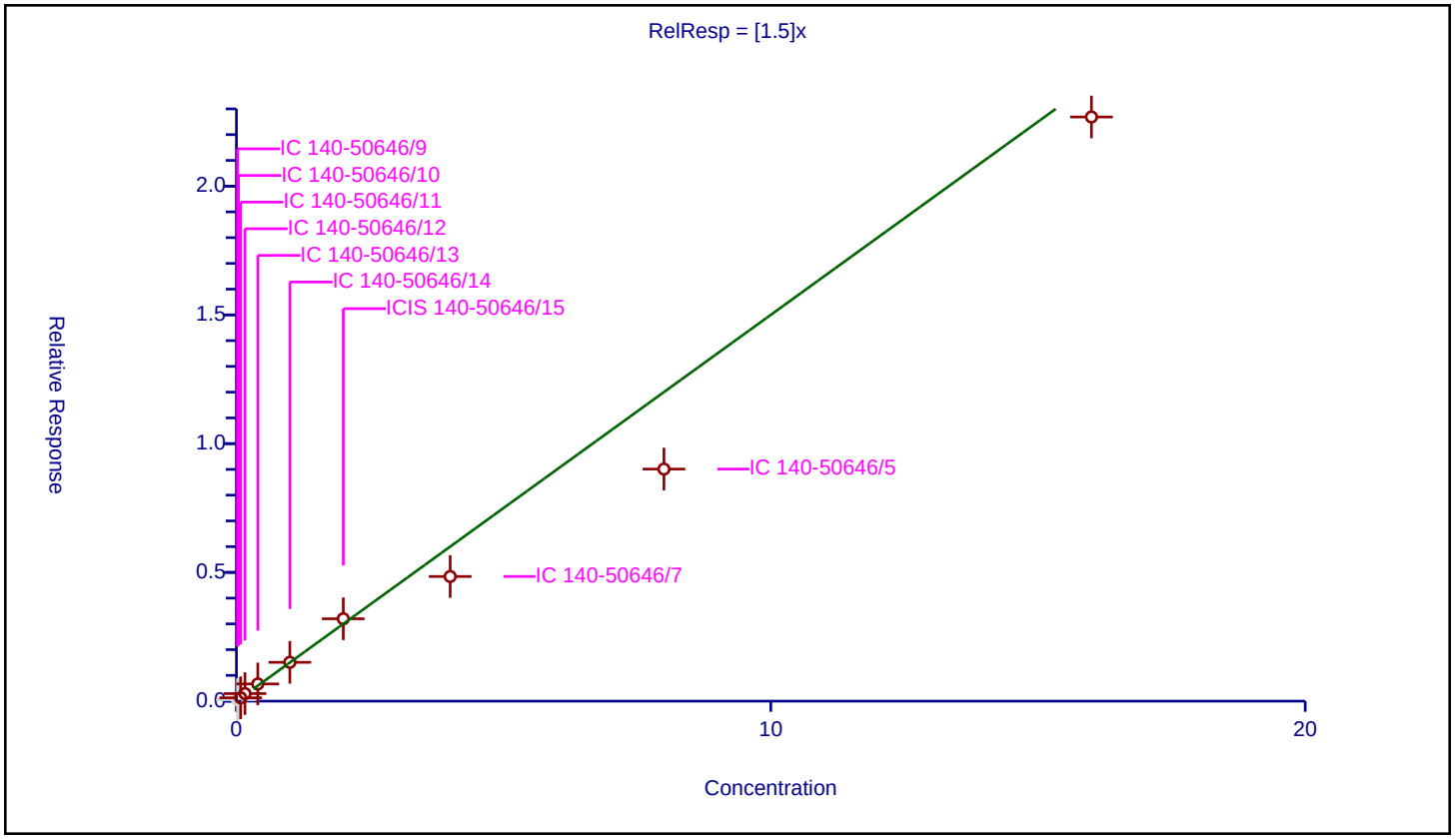
Curve Coefficients

Intercept:	0
Slope:	1.5

Error Coefficients

Standard Error:	445000
Relative Standard Error:	15.9
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.964

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.056108	4.8	233807.0	2.805391	N
2	IC 140-50646/10	0.04	0.083336	4.8	216166.0	2.083399	N
3	IC 140-50646/11	0.08	0.131258	4.8	206580.0	1.64072	Y
4	IC 140-50646/12	0.16	0.293007	4.8	198237.0	1.831293	Y
5	IC 140-50646/13	0.4	0.66737	4.8	204286.0	1.668426	Y
6	IC 140-50646/14	1.0	1.507309	4.8	212198.0	1.507309	Y
7	ICIS 140-50646/15	2.0	3.198199	4.8	216764.0	1.599099	Y
8	IC 140-50646/7	4.0	4.841049	4.8	248836.0	1.210262	Y
9	IC 140-50646/5	8.0	9.012579	4.8	242745.0	1.126572	Y
10	IC 140-50646/3	16.0	22.685564	4.8	220902.0	1.417848	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

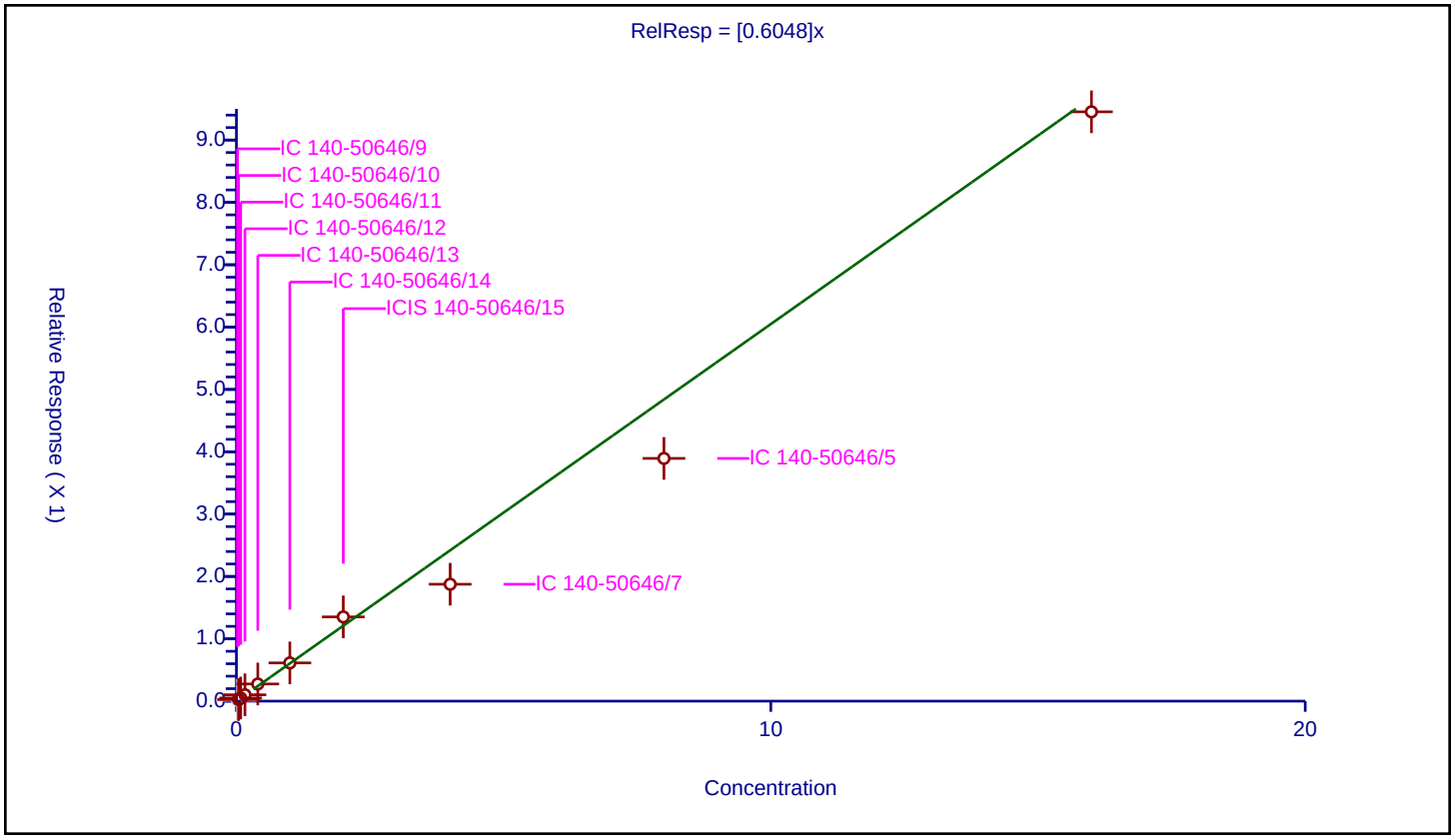
Curve Coefficients

Intercept:	0
Slope:	0.6048

Error Coefficients

Standard Error:	174000
Relative Standard Error:	12.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.015726	4.8	233807.0	0.78629	N
2	IC 140-50646/10	0.04	0.026291	4.8	216166.0	0.657273	Y
3	IC 140-50646/11	0.08	0.050119	4.8	206580.0	0.626489	Y
4	IC 140-50646/12	0.16	0.101818	4.8	198237.0	0.63636	Y
5	IC 140-50646/13	0.4	0.275285	4.8	204286.0	0.688212	Y
6	IC 140-50646/14	1.0	0.613216	4.8	212198.0	0.613216	Y
7	ICIS 140-50646/15	2.0	1.35111	4.8	216764.0	0.675555	Y
8	IC 140-50646/7	4.0	1.875124	4.8	248836.0	0.468781	Y
9	IC 140-50646/5	8.0	3.893488	4.8	242745.0	0.486686	Y
10	IC 140-50646/3	16.0	9.453111	4.8	220902.0	0.590819	Y



Calibration / Ethanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

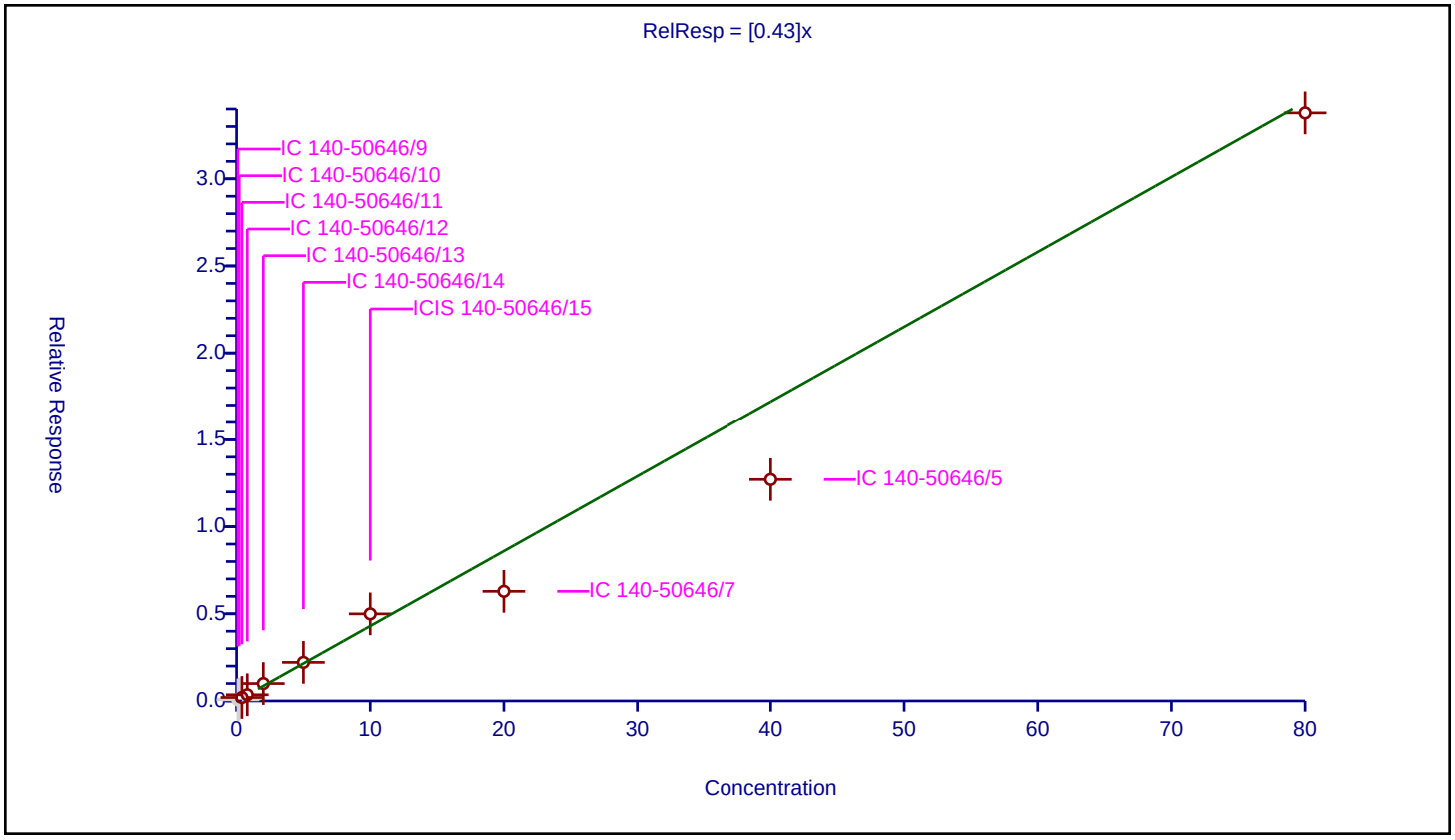
Curve Coefficients

Intercept:	0
Slope:	0.43

Error Coefficients

Standard Error:	654000
Relative Standard Error:	17.8
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.955

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.1	0.062267	4.8	233807.0	0.622667	N
2	IC 140-50646/10	0.2	0.108184	4.8	216166.0	0.540918	N
3	IC 140-50646/11	0.4	0.199361	4.8	206580.0	0.498403	Y
4	IC 140-50646/12	0.8	0.35618	4.8	198237.0	0.445225	Y
5	IC 140-50646/13	2.0	0.999728	4.8	204286.0	0.499864	Y
6	IC 140-50646/14	5.0	2.213721	4.8	212198.0	0.442744	Y
7	ICIS 140-50646/15	10.0	4.995486	4.8	216764.0	0.499549	Y
8	IC 140-50646/7	20.0	6.28846	4.8	248836.0	0.314423	Y
9	IC 140-50646/5	40.0	12.712105	4.8	242745.0	0.317803	Y
10	IC 140-50646/3	80.0	33.778287	4.8	220902.0	0.422229	Y



Calibration / Vinyl bromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

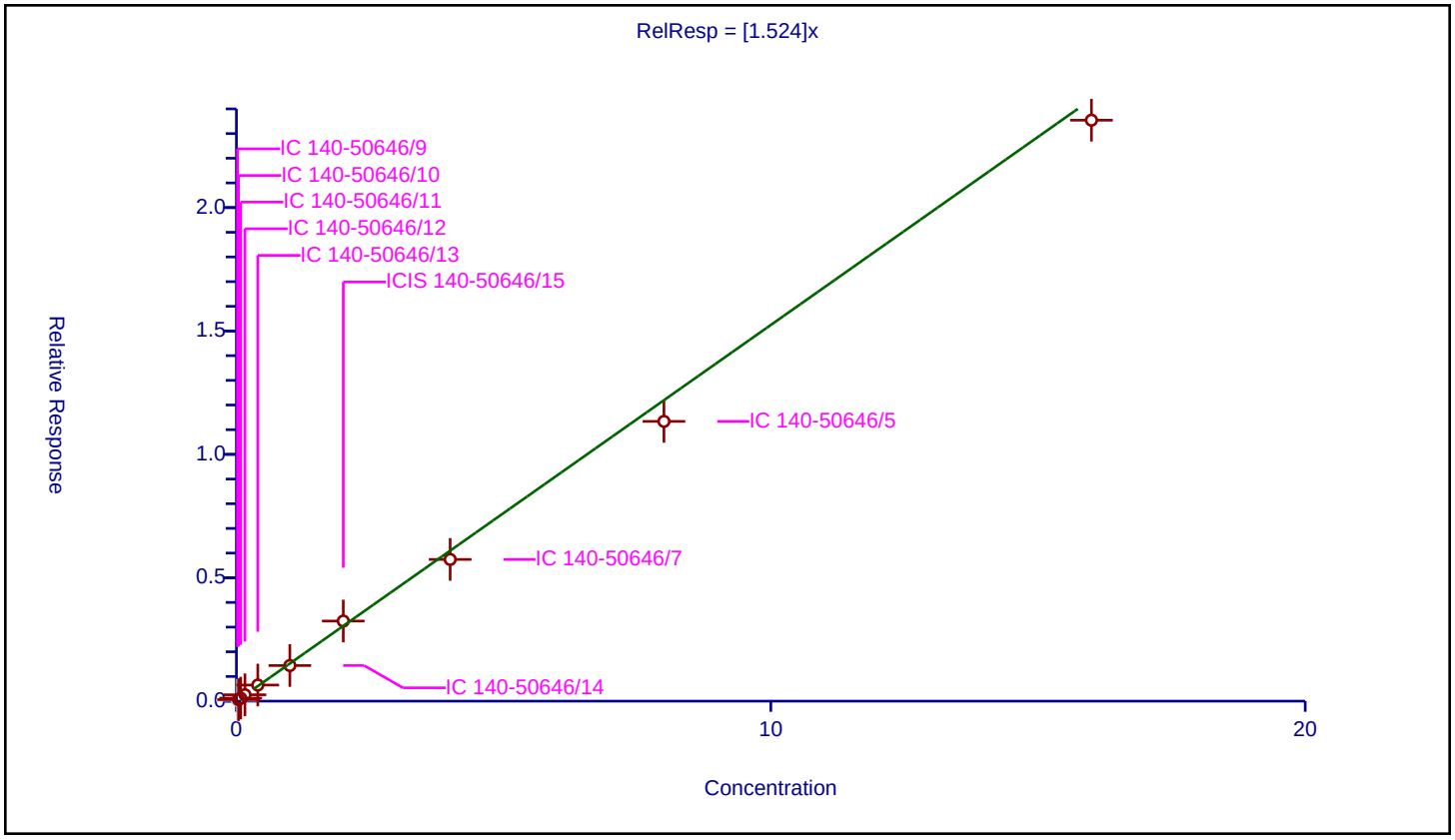
Curve Coefficients

Intercept:	0
Slope:	1.524

Error Coefficients

Standard Error:	450000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.03876	4.8	233807.0	1.938009	N
2	IC 140-50646/10	0.04	0.062152	4.8	216166.0	1.553806	Y
3	IC 140-50646/11	0.08	0.122405	4.8	206580.0	1.530061	Y
4	IC 140-50646/12	0.16	0.258454	4.8	198237.0	1.615339	Y
5	IC 140-50646/13	0.4	0.652168	4.8	204286.0	1.63042	Y
6	IC 140-50646/14	1.0	1.442615	4.8	212198.0	1.442615	Y
7	ICIS 140-50646/15	2.0	3.245476	4.8	216764.0	1.622738	Y
8	IC 140-50646/7	4.0	5.741999	4.8	248836.0	1.4355	Y
9	IC 140-50646/5	8.0	11.336143	4.8	242745.0	1.417018	Y
10	IC 140-50646/3	16.0	23.541451	4.8	220902.0	1.471341	Y



Calibration / 2-Methylbutane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

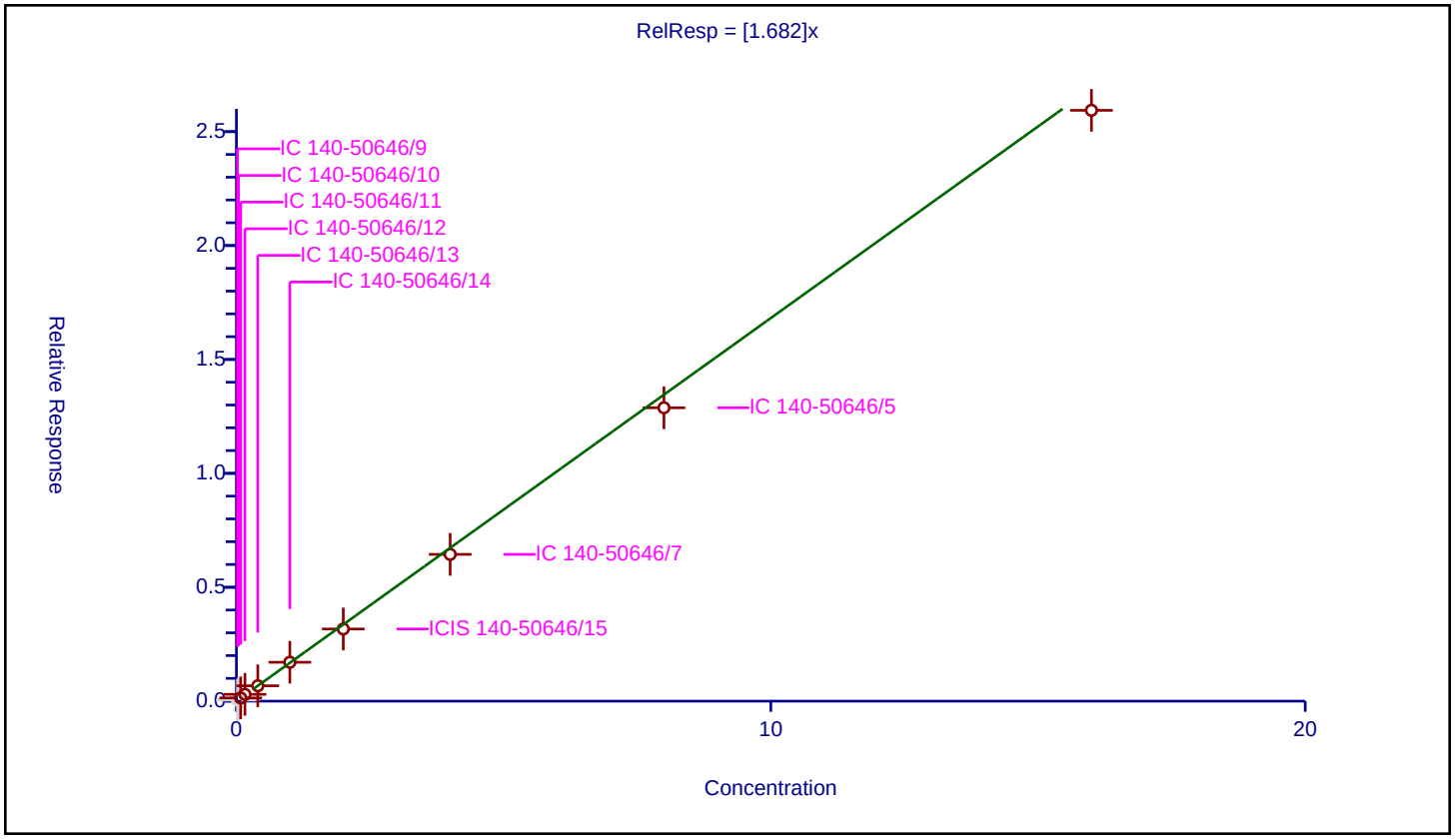
Curve Coefficients

Intercept:	0
Slope:	1.682

Error Coefficients

Standard Error:	533000
Relative Standard Error:	5.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.047752	4.8	233807.0	2.38761	N
2	IC 140-50646/10	0.04	0.080249	4.8	216166.0	2.006236	N
3	IC 140-50646/11	0.08	0.141551	4.8	206580.0	1.769387	Y
4	IC 140-50646/12	0.16	0.298528	4.8	198237.0	1.865797	Y
5	IC 140-50646/13	0.4	0.674466	4.8	204286.0	1.686165	Y
6	IC 140-50646/14	1.0	1.706979	4.8	212198.0	1.706979	Y
7	ICIS 140-50646/15	2.0	3.168039	4.8	216764.0	1.584019	Y
8	IC 140-50646/7	4.0	6.442894	4.8	248836.0	1.610724	Y
9	IC 140-50646/5	8.0	12.879095	4.8	242745.0	1.609887	Y
10	IC 140-50646/3	16.0	25.936692	4.8	220902.0	1.621043	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

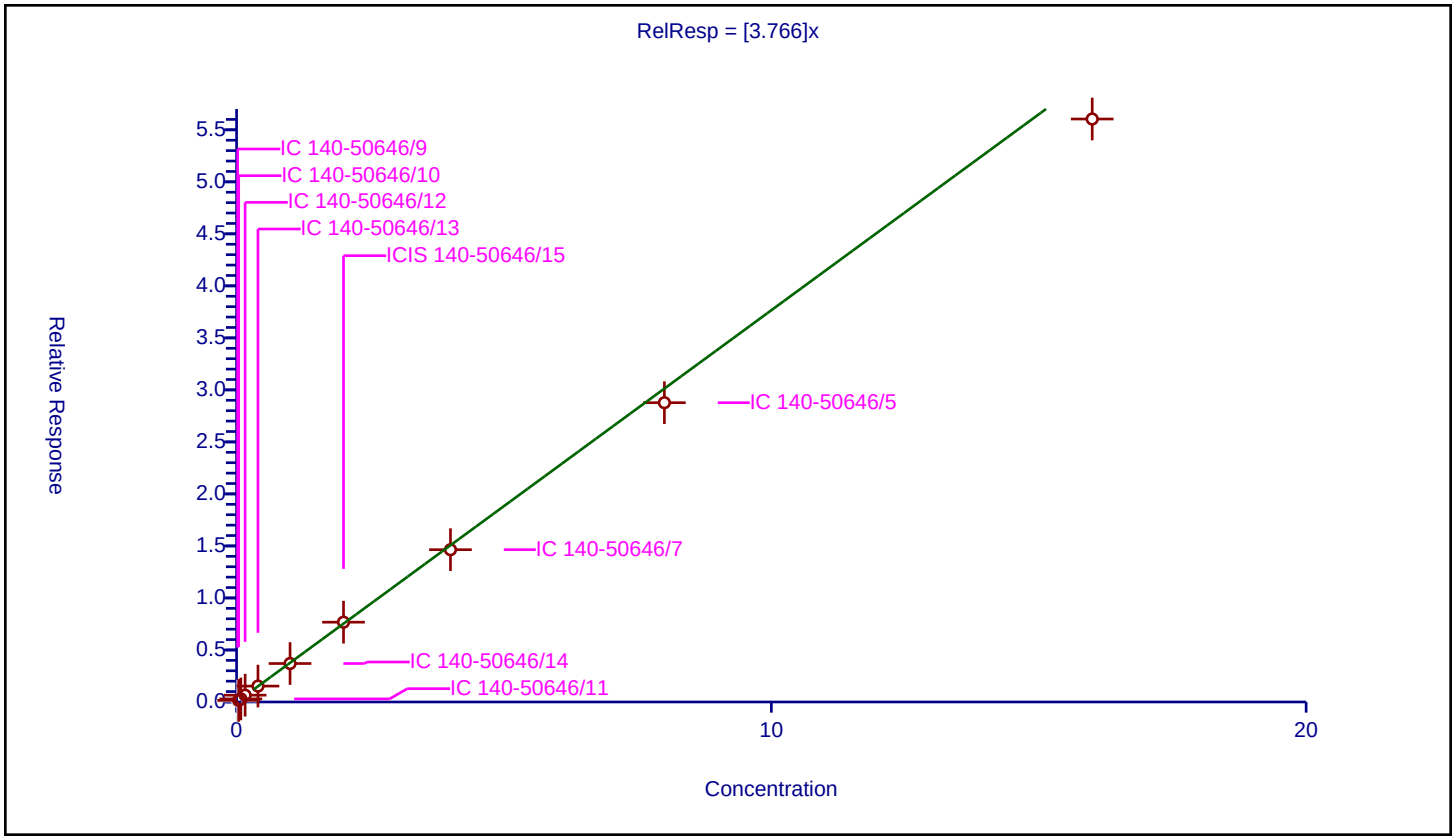
Curve Coefficients

Intercept:	0
Slope:	3.766

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	4.9
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.090947	4.8	233807.0	4.54734	N
2	IC 140-50646/10	0.04	0.158945	4.8	216166.0	3.973613	Y
3	IC 140-50646/11	0.08	0.29709	4.8	206580.0	3.713622	Y
4	IC 140-50646/12	0.16	0.654514	4.8	198237.0	4.09071	Y
5	IC 140-50646/13	0.4	1.528657	4.8	204286.0	3.821642	Y
6	IC 140-50646/14	1.0	3.697437	4.8	212198.0	3.697437	Y
7	ICIS 140-50646/15	2.0	7.671466	4.8	216764.0	3.835733	Y
8	IC 140-50646/7	4.0	14.63929	4.8	248836.0	3.659823	Y
9	IC 140-50646/5	8.0	28.770359	4.8	242745.0	3.596295	Y
10	IC 140-50646/3	16.0	56.039373	4.8	220902.0	3.502461	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

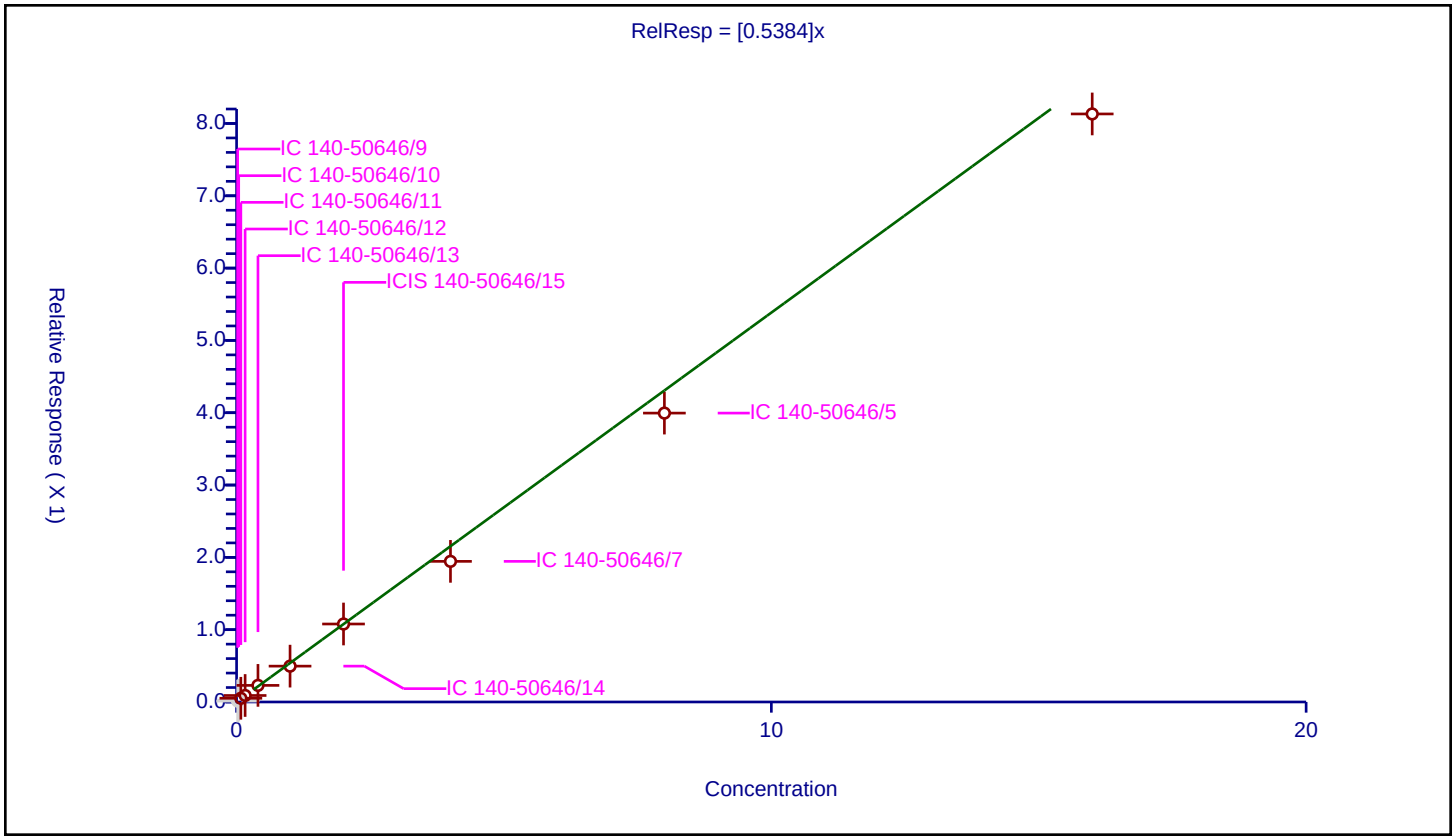
Curve Coefficients

Intercept:	0
Slope:	0.5384

Error Coefficients

Standard Error:	166000
Relative Standard Error:	9.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.012359	4.8	233807.0	0.617946	N
2	IC 140-50646/10	0.04	0.024914	4.8	216166.0	0.622855	N
3	IC 140-50646/11	0.08	0.051467	4.8	206580.0	0.643334	Y
4	IC 140-50646/12	0.16	0.089832	4.8	198237.0	0.561449	Y
5	IC 140-50646/13	0.4	0.229678	4.8	204286.0	0.574195	Y
6	IC 140-50646/14	1.0	0.495635	4.8	212198.0	0.495635	Y
7	ICIS 140-50646/15	2.0	1.078275	4.8	216764.0	0.539137	Y
8	IC 140-50646/7	4.0	1.94449	4.8	248836.0	0.486123	Y
9	IC 140-50646/5	8.0	3.994829	4.8	242745.0	0.499354	Y
10	IC 140-50646/3	16.0	8.131874	4.8	220902.0	0.508242	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

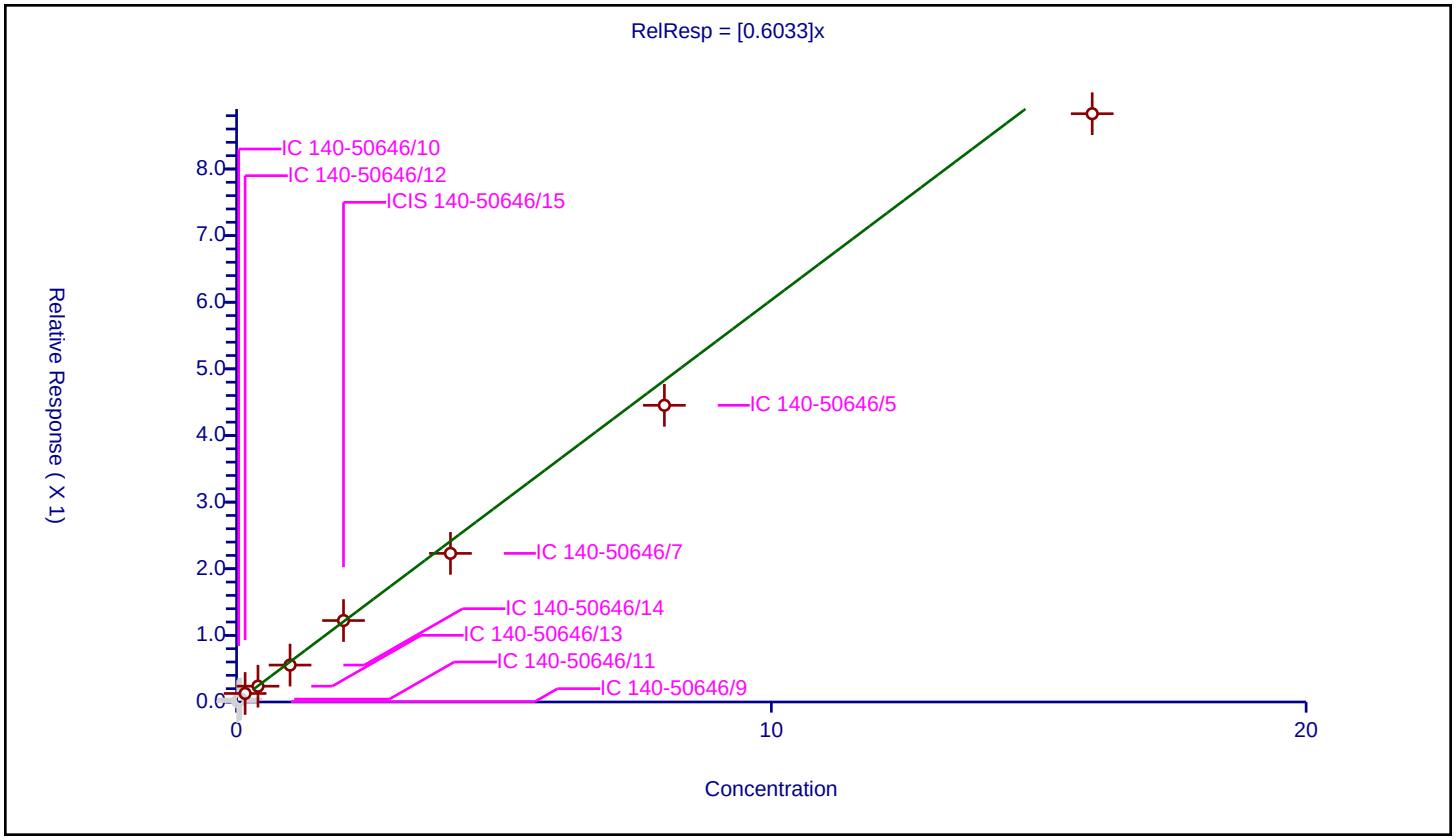
Curve Coefficients

Intercept:	0
Slope:	0.6033

Error Coefficients

Standard Error:	197000
Relative Standard Error:	14.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.965

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.006221	4.8	233807.0	0.311026	N
2	IC 140-50646/10	0.04	0.040635	4.8	216166.0	1.015886	N
3	IC 140-50646/11	0.08	0.04345	4.8	206580.0	0.543131	N
4	IC 140-50646/12	0.16	0.127944	4.8	198237.0	0.799649	Y
5	IC 140-50646/13	0.4	0.236962	4.8	204286.0	0.592405	Y
6	IC 140-50646/14	1.0	0.554041	4.8	212198.0	0.554041	Y
7	ICIS 140-50646/15	2.0	1.222542	4.8	216764.0	0.611271	Y
8	IC 140-50646/7	4.0	2.230346	4.8	248836.0	0.557587	Y
9	IC 140-50646/5	8.0	4.453068	4.8	242745.0	0.556634	Y
10	IC 140-50646/3	16.0	8.829508	4.8	220902.0	0.551844	Y



Calibration / Acetone

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

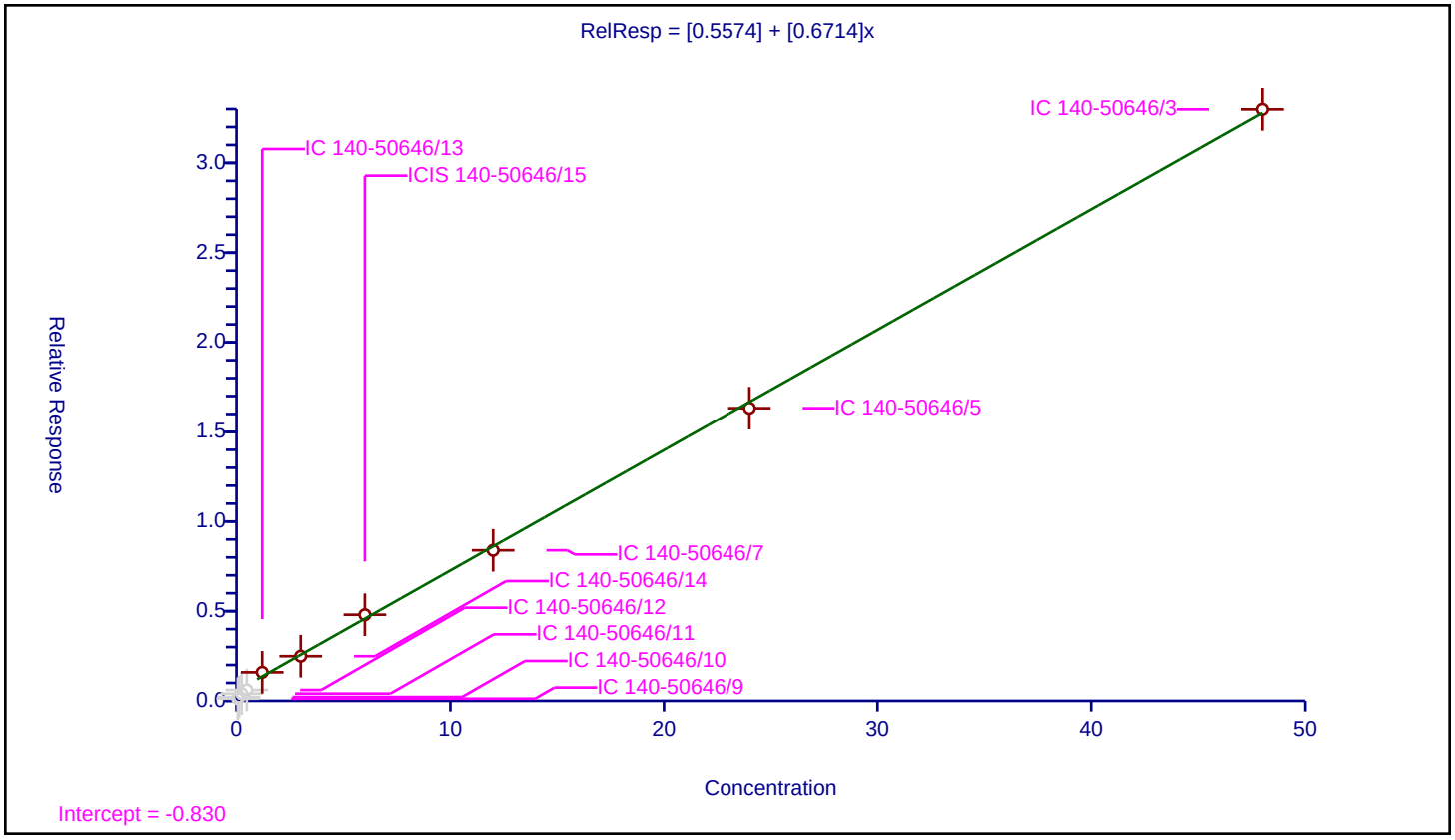
Curve Coefficients

Intercept:	0.5574
Slope:	0.6714

Error Coefficients

Standard Error:	900000
Relative Standard Error:	14.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.06	0.122522	4.8	233807.0	2.042026	N
2	IC 140-50646/10	0.12	0.217588	4.8	216166.0	1.813236	N
3	IC 140-50646/11	0.24	0.403741	4.8	206580.0	1.682254	N
4	IC 140-50646/12	0.48	0.607564	4.8	198237.0	1.265758	N
5	IC 140-50646/13	1.2	1.59158	4.8	204286.0	1.326317	Y
6	IC 140-50646/14	3.0	2.49107	4.8	212198.0	0.830357	Y
7	ICIS 140-50646/15	6.0	4.80248	4.8	216764.0	0.800413	Y
8	IC 140-50646/7	12.0	8.394464	4.8	248836.0	0.699539	Y
9	IC 140-50646/5	24.0	16.325734	4.8	242745.0	0.680239	Y
10	IC 140-50646/3	48.0	32.982916	4.8	220902.0	0.687144	Y



Calibration / Isopropyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

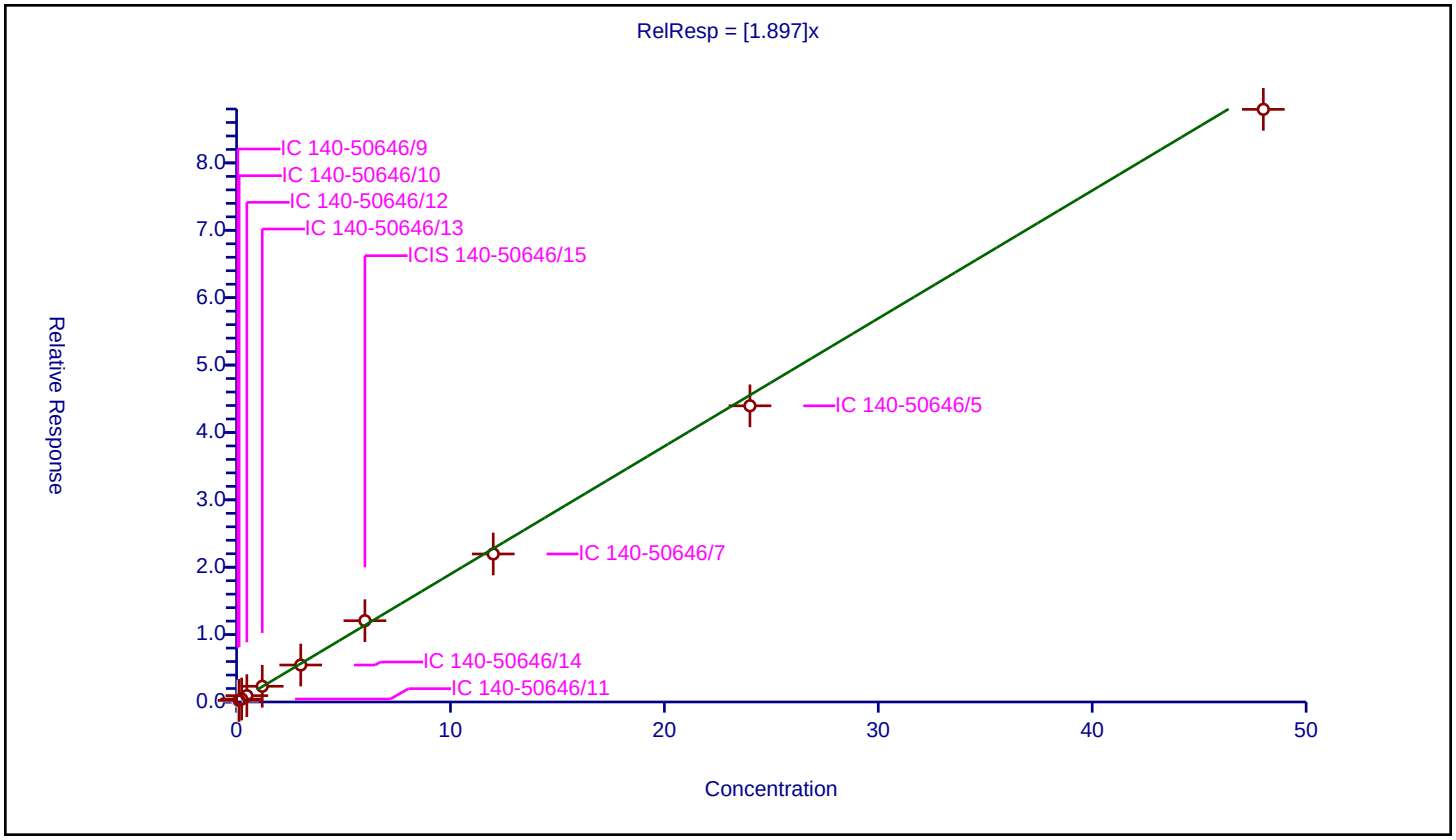
Curve Coefficients

Intercept:	0
Slope:	1.897

Error Coefficients

Standard Error:	1700000
Relative Standard Error:	4.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.06	0.136318	4.8	233807.0	2.271959	N
2	IC 140-50646/10	0.12	0.240882	4.8	216166.0	2.007346	Y
3	IC 140-50646/11	0.24	0.440871	4.8	206580.0	1.836964	Y
4	IC 140-50646/12	0.48	0.939191	4.8	198237.0	1.956648	Y
5	IC 140-50646/13	1.2	2.331038	4.8	204286.0	1.942532	Y
6	IC 140-50646/14	3.0	5.486642	4.8	212198.0	1.828881	Y
7	ICIS 140-50646/15	6.0	12.06497	4.8	216764.0	2.010828	Y
8	IC 140-50646/7	12.0	21.966198	4.8	248836.0	1.830516	Y
9	IC 140-50646/5	24.0	43.95275	4.8	242745.0	1.831365	Y
10	IC 140-50646/3	48.0	87.947155	4.8	220902.0	1.832232	Y



Calibration / Pentane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

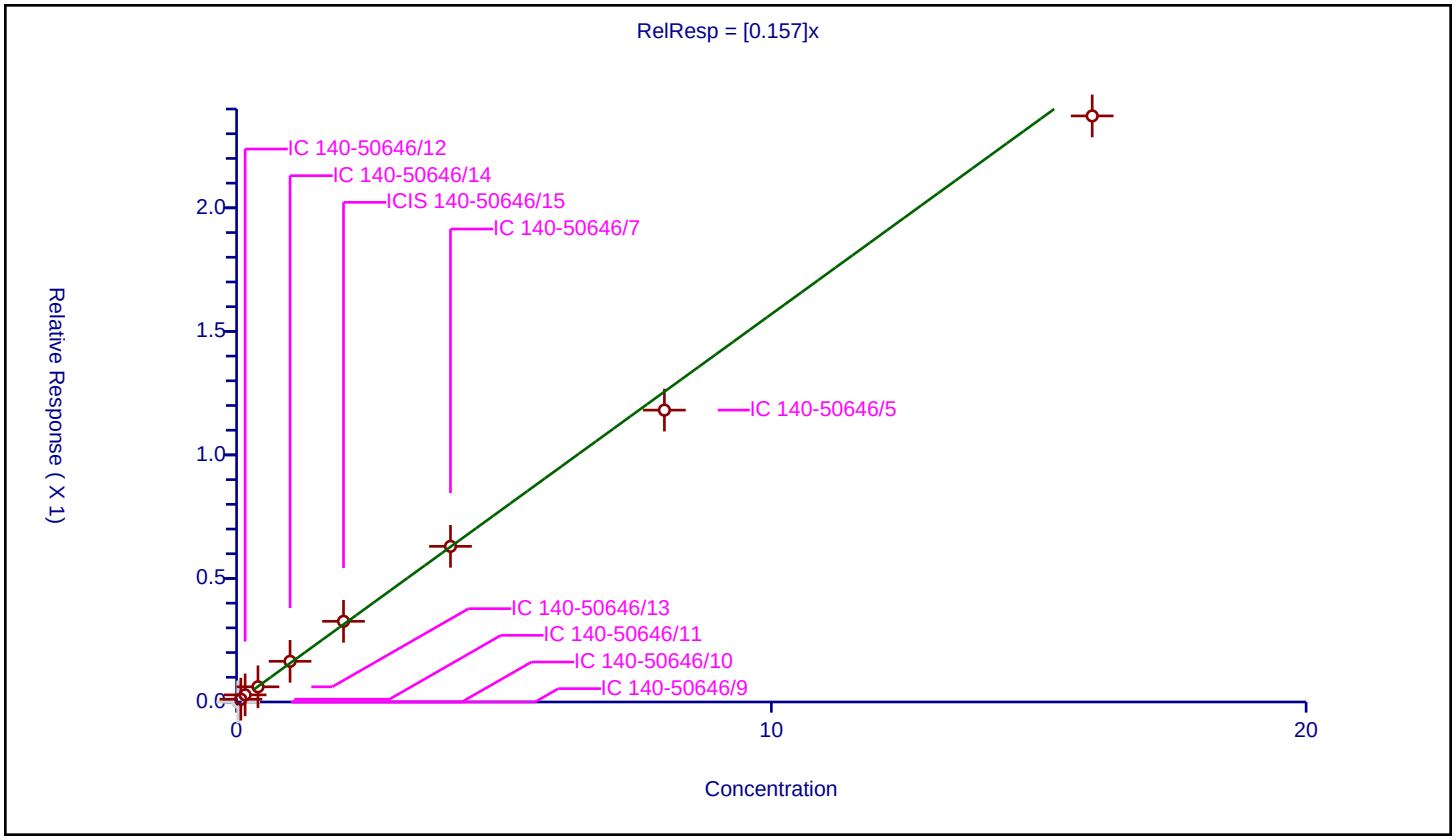
Curve Coefficients

Intercept:	0
Slope:	0.157

Error Coefficients

Standard Error:	49000
Relative Standard Error:	7.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.0	4.8	233807.0	0.0	N
2	IC 140-50646/10	0.04	0.0	4.8	216166.0	0.0	N
3	IC 140-50646/11	0.08	0.011292	4.8	206580.0	0.141156	Y
4	IC 140-50646/12	0.16	0.028741	4.8	198237.0	0.179633	Y
5	IC 140-50646/13	0.4	0.061467	4.8	204286.0	0.153667	Y
6	IC 140-50646/14	1.0	0.164631	4.8	212198.0	0.164631	Y
7	ICIS 140-50646/15	2.0	0.326534	4.8	216764.0	0.163267	Y
8	IC 140-50646/7	4.0	0.629986	4.8	248836.0	0.157497	Y
9	IC 140-50646/5	8.0	1.181388	4.8	242745.0	0.147673	Y
10	IC 140-50646/3	16.0	2.372013	4.8	220902.0	0.148251	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

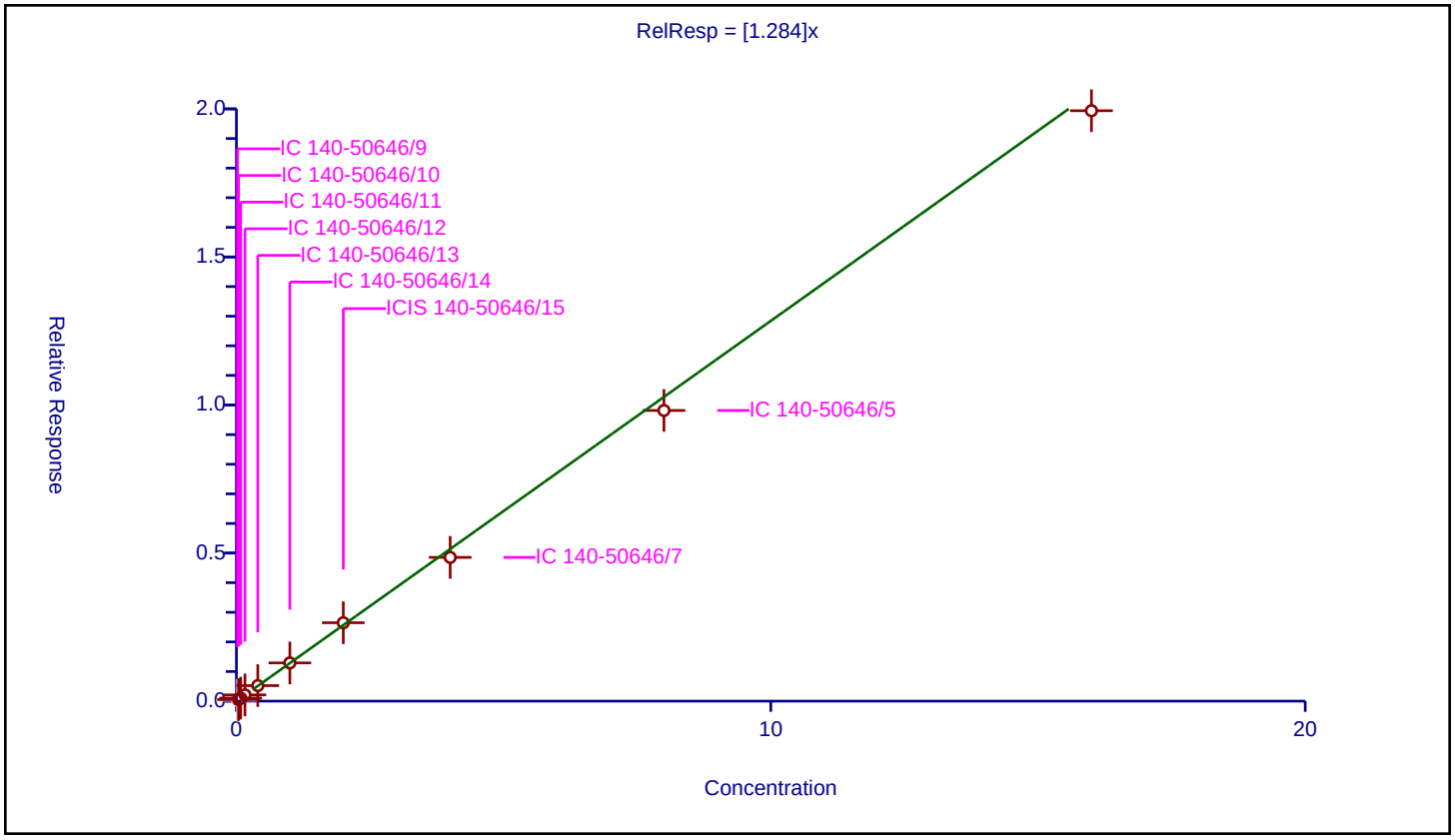
Curve Coefficients

Intercept:	0
Slope:	1.284

Error Coefficients

Standard Error:	382000
Relative Standard Error:	3.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.031308	4.8	233807.0	1.565394	N
2	IC 140-50646/10	0.04	0.05367	4.8	216166.0	1.341747	Y
3	IC 140-50646/11	0.08	0.102771	4.8	206580.0	1.284635	Y
4	IC 140-50646/12	0.16	0.211141	4.8	198237.0	1.319633	Y
5	IC 140-50646/13	0.4	0.523971	4.8	204286.0	1.309928	Y
6	IC 140-50646/14	1.0	1.290742	4.8	212198.0	1.290742	Y
7	ICIS 140-50646/15	2.0	2.647347	4.8	216764.0	1.323674	Y
8	IC 140-50646/7	4.0	4.854417	4.8	248836.0	1.213604	Y
9	IC 140-50646/5	8.0	9.816227	4.8	242745.0	1.227028	Y
10	IC 140-50646/3	16.0	19.938268	4.8	220902.0	1.246142	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

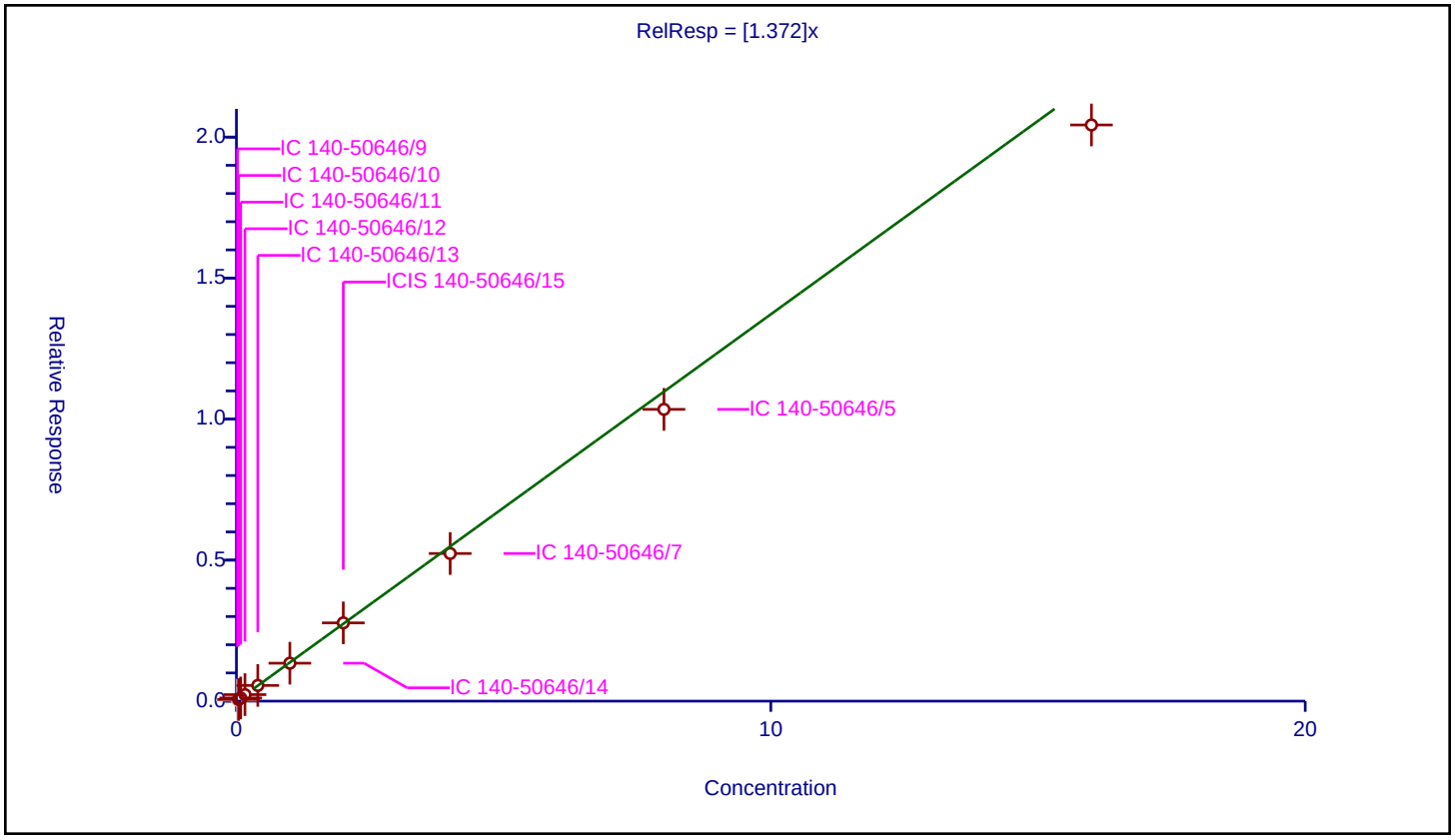
Curve Coefficients

Intercept:	0
Slope:	1.372

Error Coefficients

Standard Error:	396000
Relative Standard Error:	5.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.036173	4.8	233807.0	1.808671	N
2	IC 140-50646/10	0.04	0.06022	4.8	216166.0	1.50551	Y
3	IC 140-50646/11	0.08	0.111484	4.8	206580.0	1.393552	Y
4	IC 140-50646/12	0.16	0.23073	4.8	198237.0	1.442062	Y
5	IC 140-50646/13	0.4	0.556514	4.8	204286.0	1.391285	Y
6	IC 140-50646/14	1.0	1.345506	4.8	212198.0	1.345506	Y
7	ICIS 140-50646/15	2.0	2.775251	4.8	216764.0	1.387625	Y
8	IC 140-50646/7	4.0	5.235294	4.8	248836.0	1.308823	Y
9	IC 140-50646/5	8.0	10.346581	4.8	242745.0	1.293323	Y
10	IC 140-50646/3	16.0	20.430801	4.8	220902.0	1.276925	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

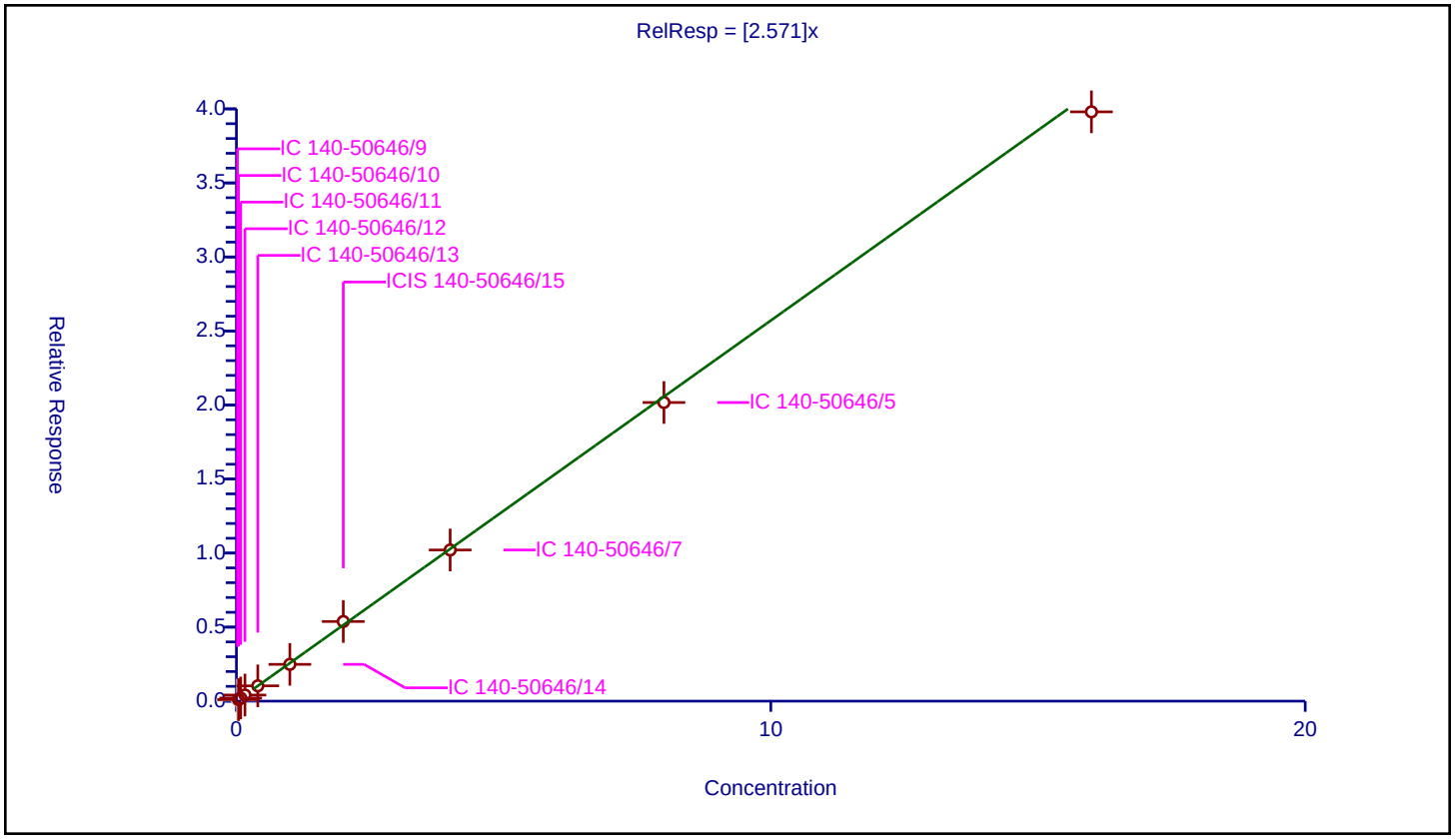
Curve Coefficients

Intercept:	0
Slope:	2.571

Error Coefficients

Standard Error:	770000
Relative Standard Error:	2.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.072203	4.8	233807.0	3.610157	N
2	IC 140-50646/10	0.04	0.103321	4.8	216166.0	2.583015	Y
3	IC 140-50646/11	0.08	0.212071	4.8	206580.0	2.650886	Y
4	IC 140-50646/12	0.16	0.413493	4.8	198237.0	2.584331	Y
5	IC 140-50646/13	0.4	1.033046	4.8	204286.0	2.582615	Y
6	IC 140-50646/14	1.0	2.484713	4.8	212198.0	2.484713	Y
7	ICIS 140-50646/15	2.0	5.378664	4.8	216764.0	2.689332	Y
8	IC 140-50646/7	4.0	10.209693	4.8	248836.0	2.552423	Y
9	IC 140-50646/5	8.0	20.169294	4.8	242745.0	2.521162	Y
10	IC 140-50646/3	16.0	39.799636	4.8	220902.0	2.487477	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

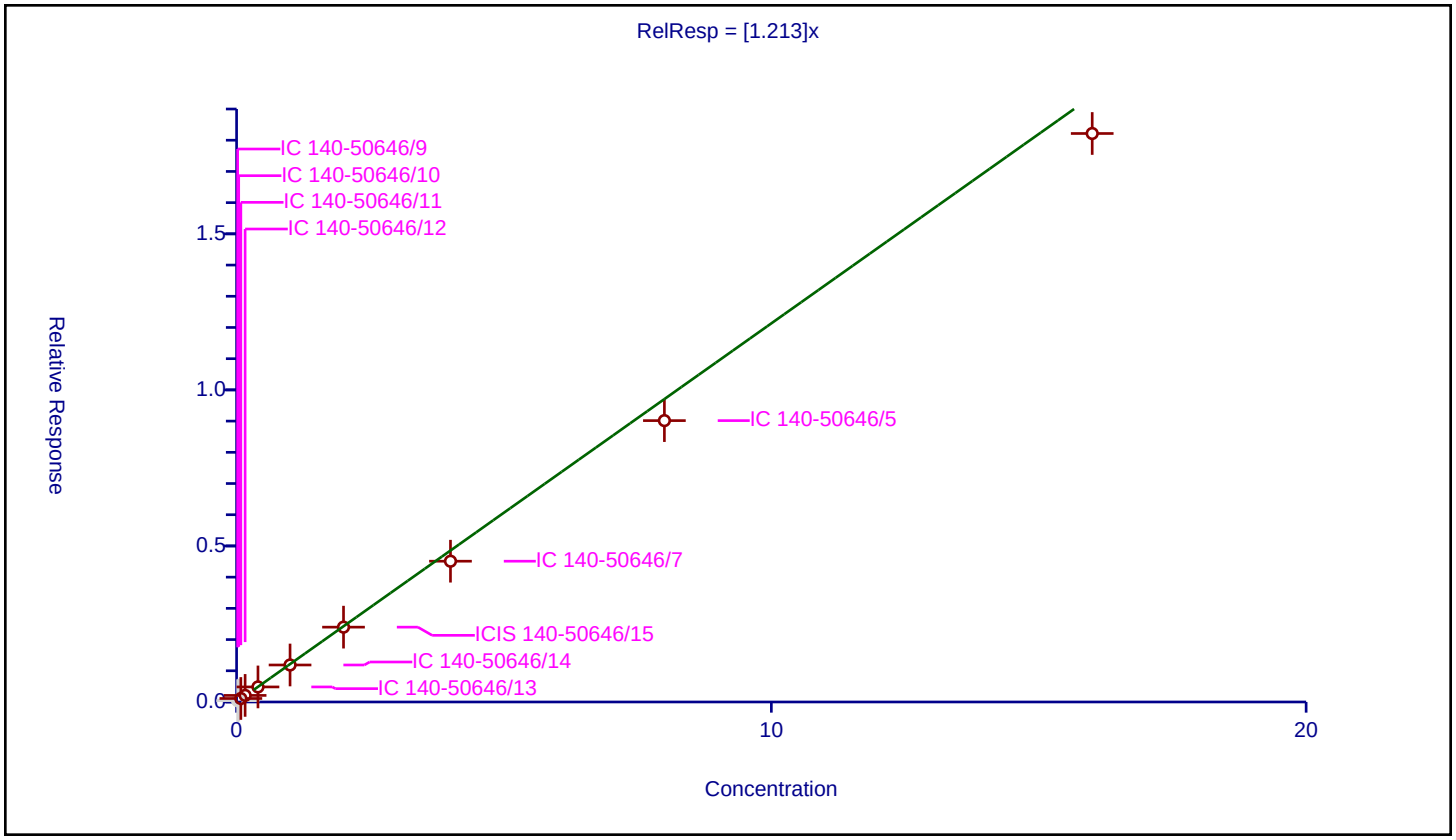
Curve Coefficients

Intercept:	0
Slope:	1.213

Error Coefficients

Standard Error:	374000
Relative Standard Error:	8.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.041326	4.8	233807.0	2.06632	N
2	IC 140-50646/10	0.04	0.060243	4.8	216166.0	1.506065	N
3	IC 140-50646/11	0.08	0.112297	4.8	206580.0	1.403718	Y
4	IC 140-50646/12	0.16	0.210899	4.8	198237.0	1.318119	Y
5	IC 140-50646/13	0.4	0.482218	4.8	204286.0	1.205545	Y
6	IC 140-50646/14	1.0	1.185715	4.8	212198.0	1.185715	Y
7	ICIS 140-50646/15	2.0	2.398339	4.8	216764.0	1.19917	Y
8	IC 140-50646/7	4.0	4.511347	4.8	248836.0	1.127837	Y
9	IC 140-50646/5	8.0	9.015387	4.8	242745.0	1.126923	Y
10	IC 140-50646/3	16.0	18.215694	4.8	220902.0	1.138481	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

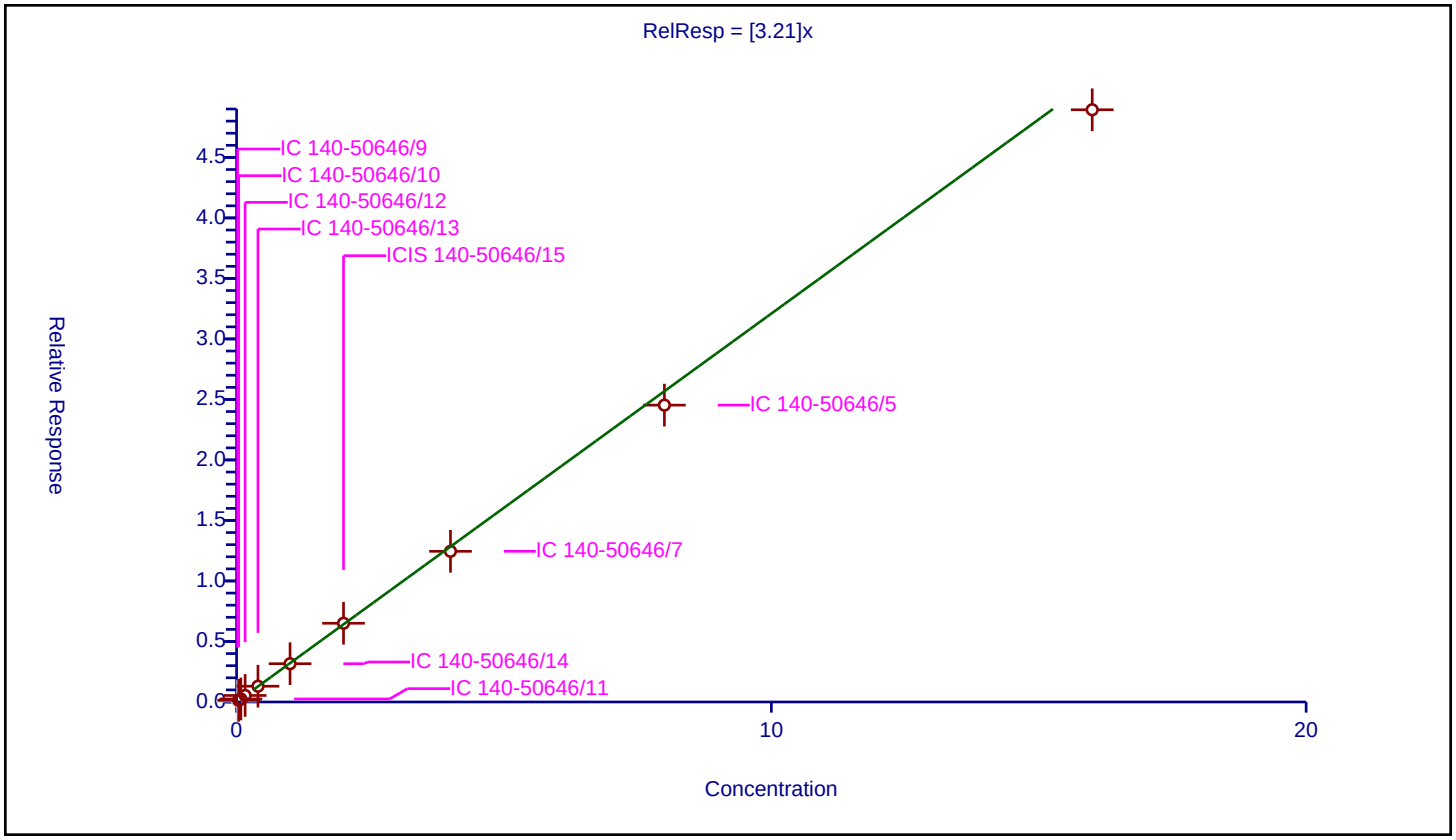
Curve Coefficients

Intercept:	0
Slope:	3.21

Error Coefficients

Standard Error:	945000
Relative Standard Error:	4.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.080148	4.8	233807.0	4.007408	N
2	IC 140-50646/10	0.04	0.138938	4.8	216166.0	3.473442	Y
3	IC 140-50646/11	0.08	0.250781	4.8	206580.0	3.134766	Y
4	IC 140-50646/12	0.16	0.538095	4.8	198237.0	3.363096	Y
5	IC 140-50646/13	0.4	1.304242	4.8	204286.0	3.260605	Y
6	IC 140-50646/14	1.0	3.162963	4.8	212198.0	3.162963	Y
7	ICIS 140-50646/15	2.0	6.506099	4.8	216764.0	3.253049	Y
8	IC 140-50646/7	4.0	12.452095	4.8	248836.0	3.113024	Y
9	IC 140-50646/5	8.0	24.531244	4.8	242745.0	3.066405	Y
10	IC 140-50646/3	16.0	48.937784	4.8	220902.0	3.058612	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

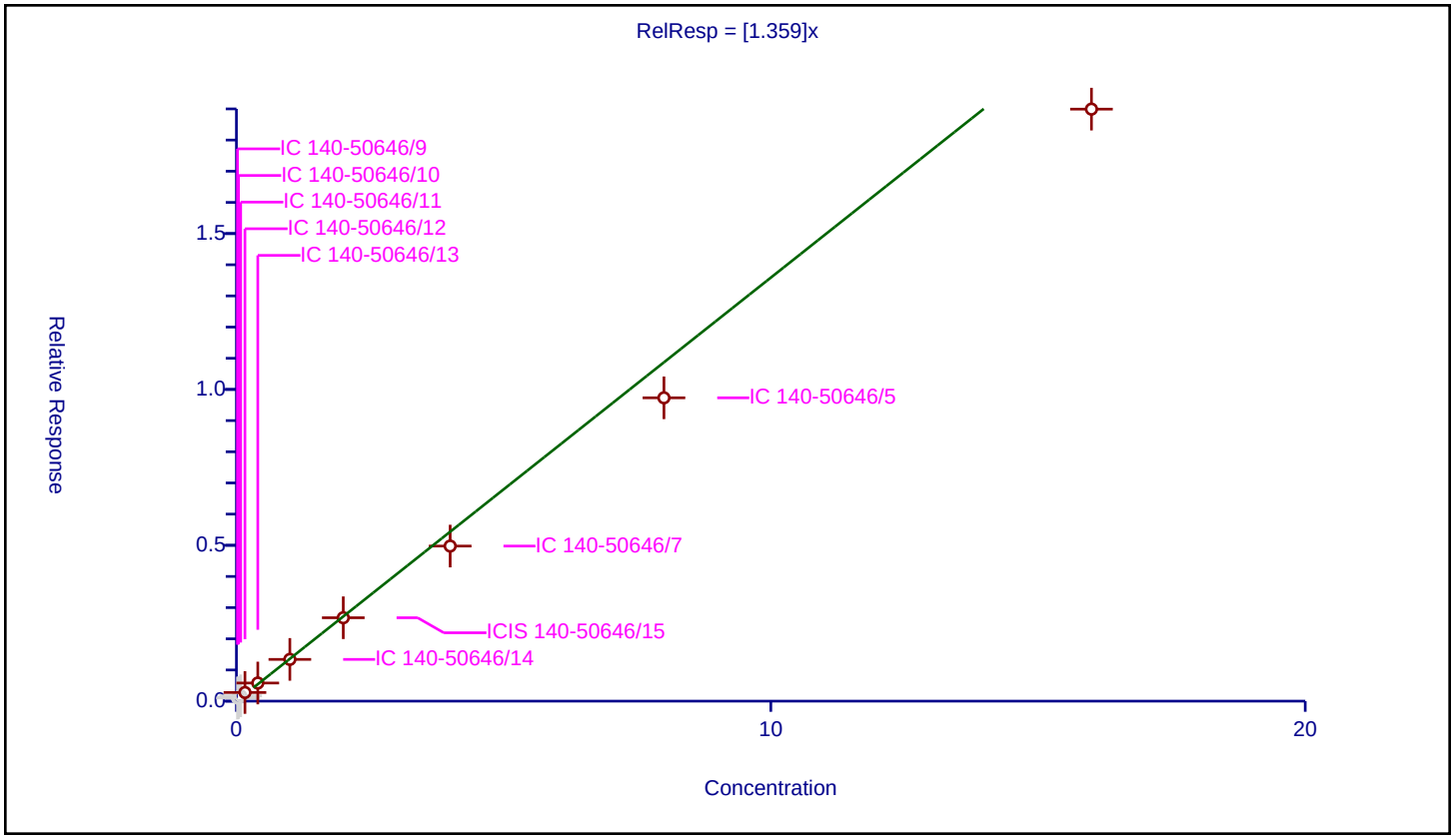
Curve Coefficients

Intercept:	0
Slope:	1.359

Error Coefficients

Standard Error:	427000
Relative Standard Error:	13.9
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.969

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.100965	4.8	233807.0	5.048266	N
2	IC 140-50646/10	0.04	0.112691	4.8	216166.0	2.817279	N
3	IC 140-50646/11	0.08	0.172268	4.8	206580.0	2.153355	N
4	IC 140-50646/12	0.16	0.277268	4.8	198237.0	1.732926	Y
5	IC 140-50646/13	0.4	0.581561	4.8	204286.0	1.453903	Y
6	IC 140-50646/14	1.0	1.339081	4.8	212198.0	1.339081	Y
7	ICIS 140-50646/15	2.0	2.675382	4.8	216764.0	1.337691	Y
8	IC 140-50646/7	4.0	4.975094	4.8	248836.0	1.243773	Y
9	IC 140-50646/5	8.0	9.730725	4.8	242745.0	1.216341	Y
10	IC 140-50646/3	16.0	18.992661	4.8	220902.0	1.187041	Y



Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

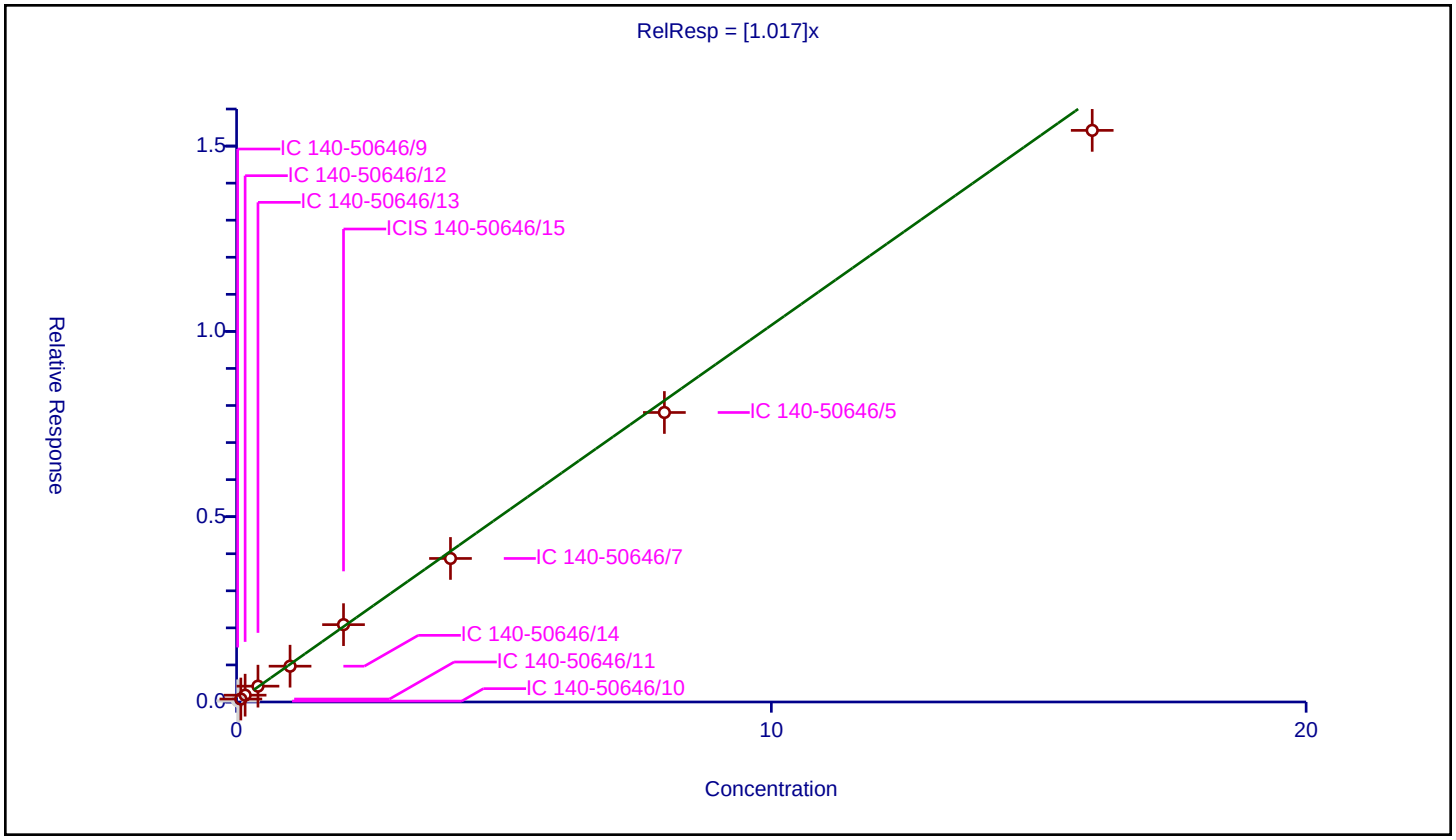
Curve Coefficients

Intercept:	0
Slope:	1.017

Error Coefficients

Standard Error:	319000
Relative Standard Error:	6.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.032026	4.8	233807.0	1.601321	N
2	IC 140-50646/10	0.04	0.025181	4.8	216166.0	0.629516	N
3	IC 140-50646/11	0.08	0.079954	4.8	206580.0	0.999419	Y
4	IC 140-50646/12	0.16	0.183707	4.8	198237.0	1.148171	Y
5	IC 140-50646/13	0.4	0.427166	4.8	204286.0	1.067915	Y
6	IC 140-50646/14	1.0	0.965777	4.8	212198.0	0.965777	Y
7	ICIS 140-50646/15	2.0	2.086974	4.8	216764.0	1.043487	Y
8	IC 140-50646/7	4.0	3.873124	4.8	248836.0	0.968281	Y
9	IC 140-50646/5	8.0	7.811496	4.8	242745.0	0.976437	Y
10	IC 140-50646/3	16.0	15.423853	4.8	220902.0	0.963991	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

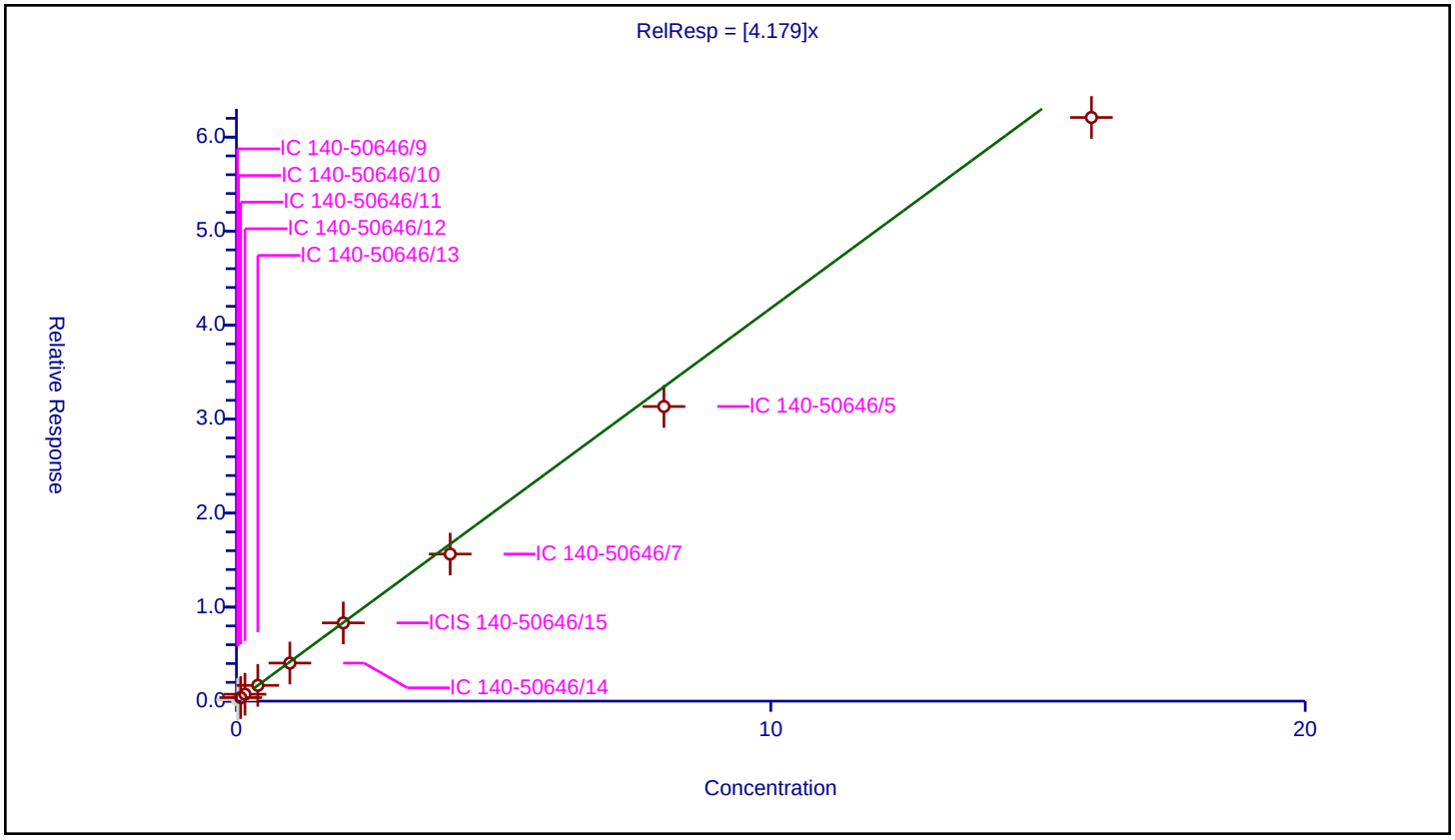
Curve Coefficients

Intercept:	0
Slope:	4.179

Error Coefficients

Standard Error:	1280000
Relative Standard Error:	7.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.155123	4.8	233807.0	7.756141	N
2	IC 140-50646/10	0.04	0.225915	4.8	216166.0	5.647882	N
3	IC 140-50646/11	0.08	0.379181	4.8	206580.0	4.739762	Y
4	IC 140-50646/12	0.16	0.73403	4.8	198237.0	4.58769	Y
5	IC 140-50646/13	0.4	1.674922	4.8	204286.0	4.187306	Y
6	IC 140-50646/14	1.0	4.048732	4.8	212198.0	4.048732	Y
7	ICIS 140-50646/15	2.0	8.321367	4.8	216764.0	4.160684	Y
8	IC 140-50646/7	4.0	15.64483	4.8	248836.0	3.911207	Y
9	IC 140-50646/5	8.0	31.342006	4.8	242745.0	3.917751	Y
10	IC 140-50646/3	16.0	62.087709	4.8	220902.0	3.880482	Y



Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

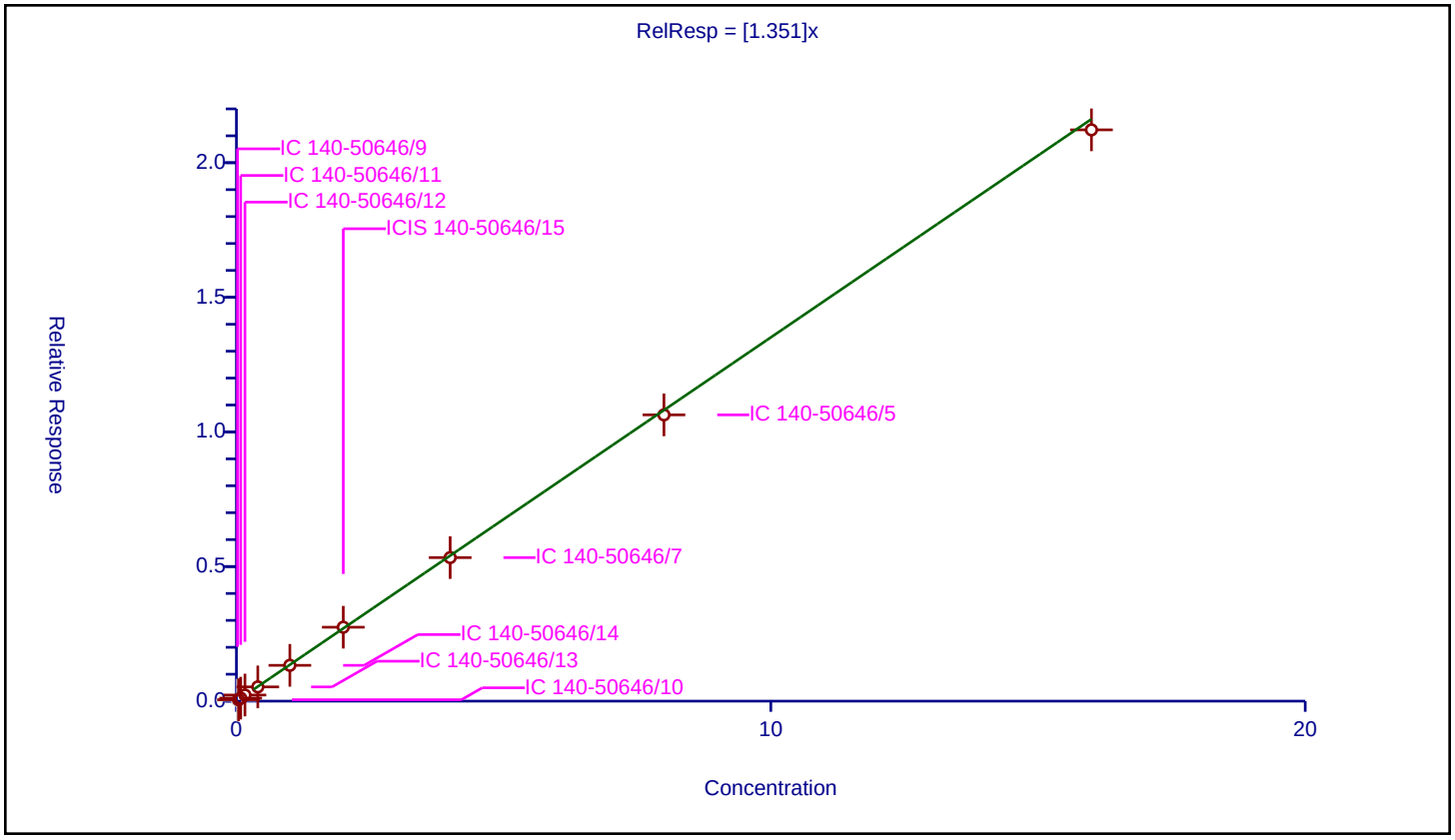
Curve Coefficients

Intercept:	0
Slope:	1.351

Error Coefficients

Standard Error:	409000
Relative Standard Error:	2.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.035558	4.8	233807.0	1.777877	N
2	IC 140-50646/10	0.04	0.05307	4.8	216166.0	1.326758	Y
3	IC 140-50646/11	0.08	0.111856	4.8	206580.0	1.398199	Y
4	IC 140-50646/12	0.16	0.227388	4.8	198237.0	1.421178	Y
5	IC 140-50646/13	0.4	0.528976	4.8	204286.0	1.32244	Y
6	IC 140-50646/14	1.0	1.330395	4.8	212198.0	1.330395	Y
7	ICIS 140-50646/15	2.0	2.746176	4.8	216764.0	1.373088	Y
8	IC 140-50646/7	4.0	5.332245	4.8	248836.0	1.333061	Y
9	IC 140-50646/5	8.0	10.633855	4.8	242745.0	1.329232	Y
10	IC 140-50646/3	16.0	21.221566	4.8	220902.0	1.326348	Y



Calibration / 2-Methylpentane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

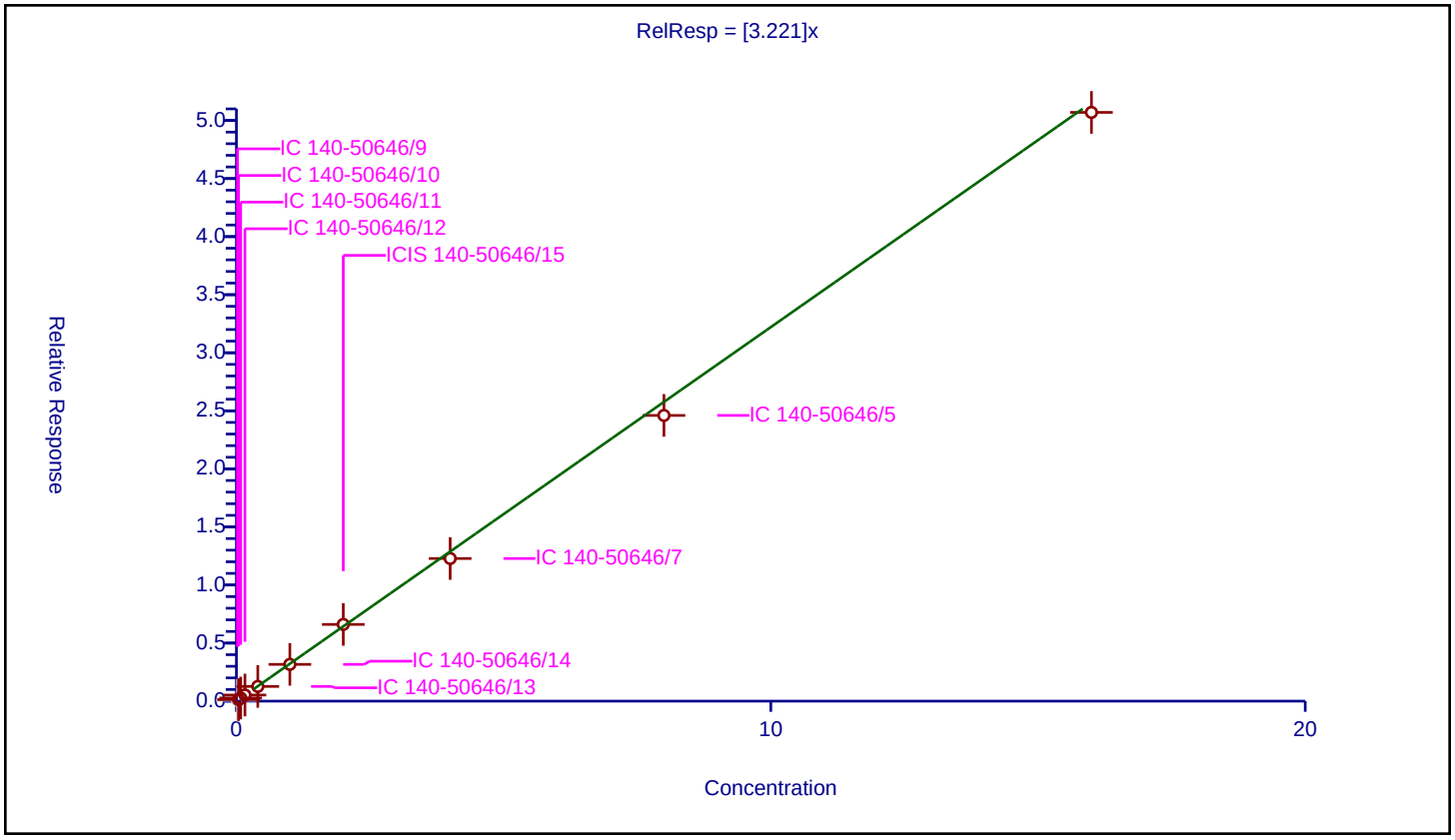
Curve Coefficients

Intercept:	0
Slope:	3.221

Error Coefficients

Standard Error:	969000
Relative Standard Error:	3.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.079081	4.8	233807.0	3.95403	N
2	IC 140-50646/10	0.04	0.135118	4.8	216166.0	3.37796	Y
3	IC 140-50646/11	0.08	0.269579	4.8	206580.0	3.369736	Y
4	IC 140-50646/12	0.16	0.525577	4.8	198237.0	3.284856	Y
5	IC 140-50646/13	0.4	1.268269	4.8	204286.0	3.170672	Y
6	IC 140-50646/14	1.0	3.165089	4.8	212198.0	3.165089	Y
7	ICIS 140-50646/15	2.0	6.607097	4.8	216764.0	3.303549	Y
8	IC 140-50646/7	4.0	12.283232	4.8	248836.0	3.070808	Y
9	IC 140-50646/5	8.0	24.60324	4.8	242745.0	3.075405	Y
10	IC 140-50646/3	16.0	50.696841	4.8	220902.0	3.168553	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

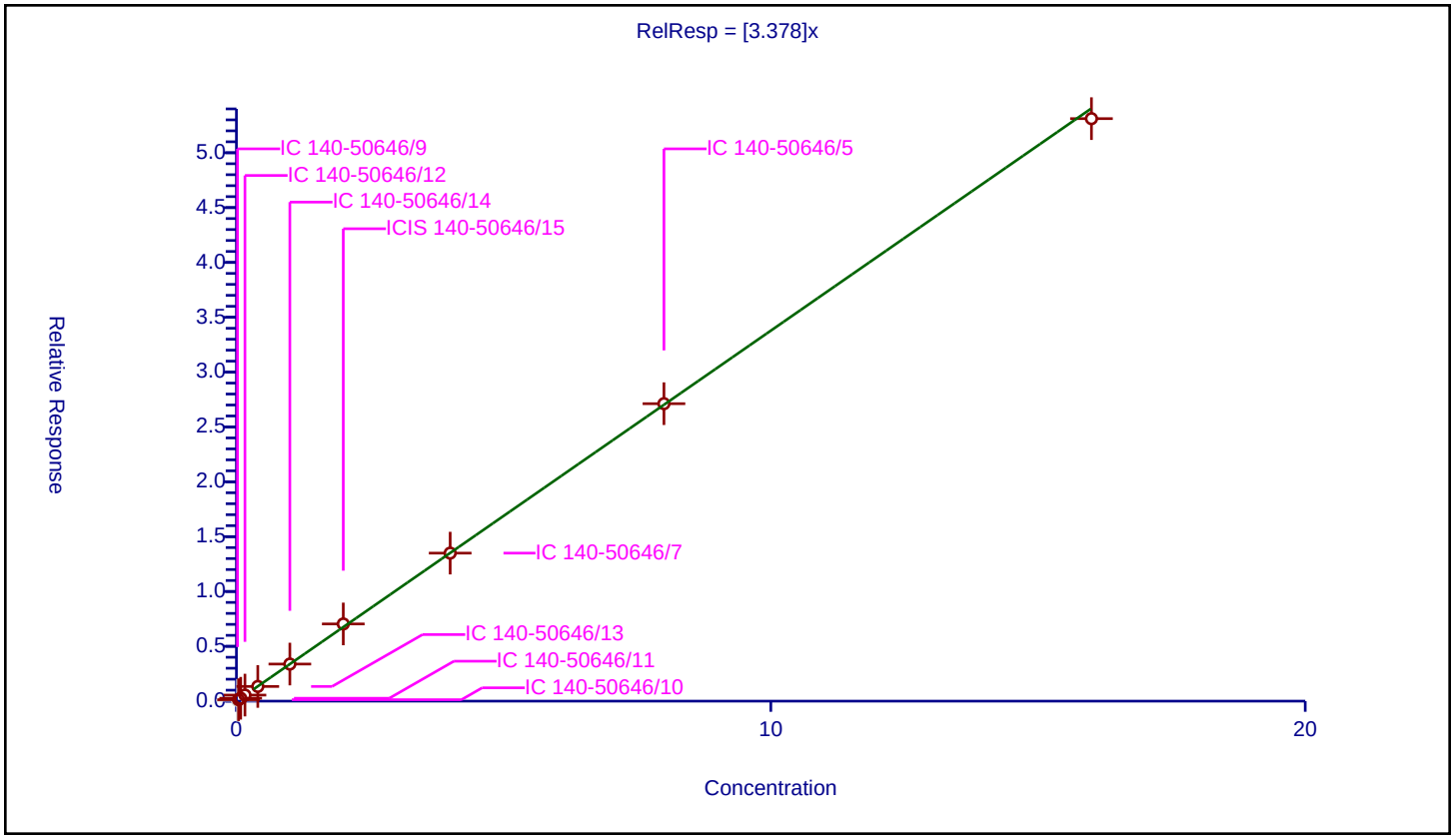
Curve Coefficients

Intercept:	0
Slope:	3.378

Error Coefficients

Standard Error:	1030000
Relative Standard Error:	2.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.075467	4.8	233807.0	3.773369	N
2	IC 140-50646/10	0.04	0.132631	4.8	216166.0	3.315785	Y
3	IC 140-50646/11	0.08	0.264258	4.8	206580.0	3.303224	Y
4	IC 140-50646/12	0.16	0.551413	4.8	198237.0	3.446329	Y
5	IC 140-50646/13	0.4	1.340004	4.8	204286.0	3.350009	Y
6	IC 140-50646/14	1.0	3.381566	4.8	212198.0	3.381566	Y
7	ICIS 140-50646/15	2.0	7.039944	4.8	216764.0	3.519972	Y
8	IC 140-50646/7	4.0	13.495983	4.8	248836.0	3.373996	Y
9	IC 140-50646/5	8.0	27.121518	4.8	242745.0	3.39019	Y
10	IC 140-50646/3	16.0	53.110922	4.8	220902.0	3.319433	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

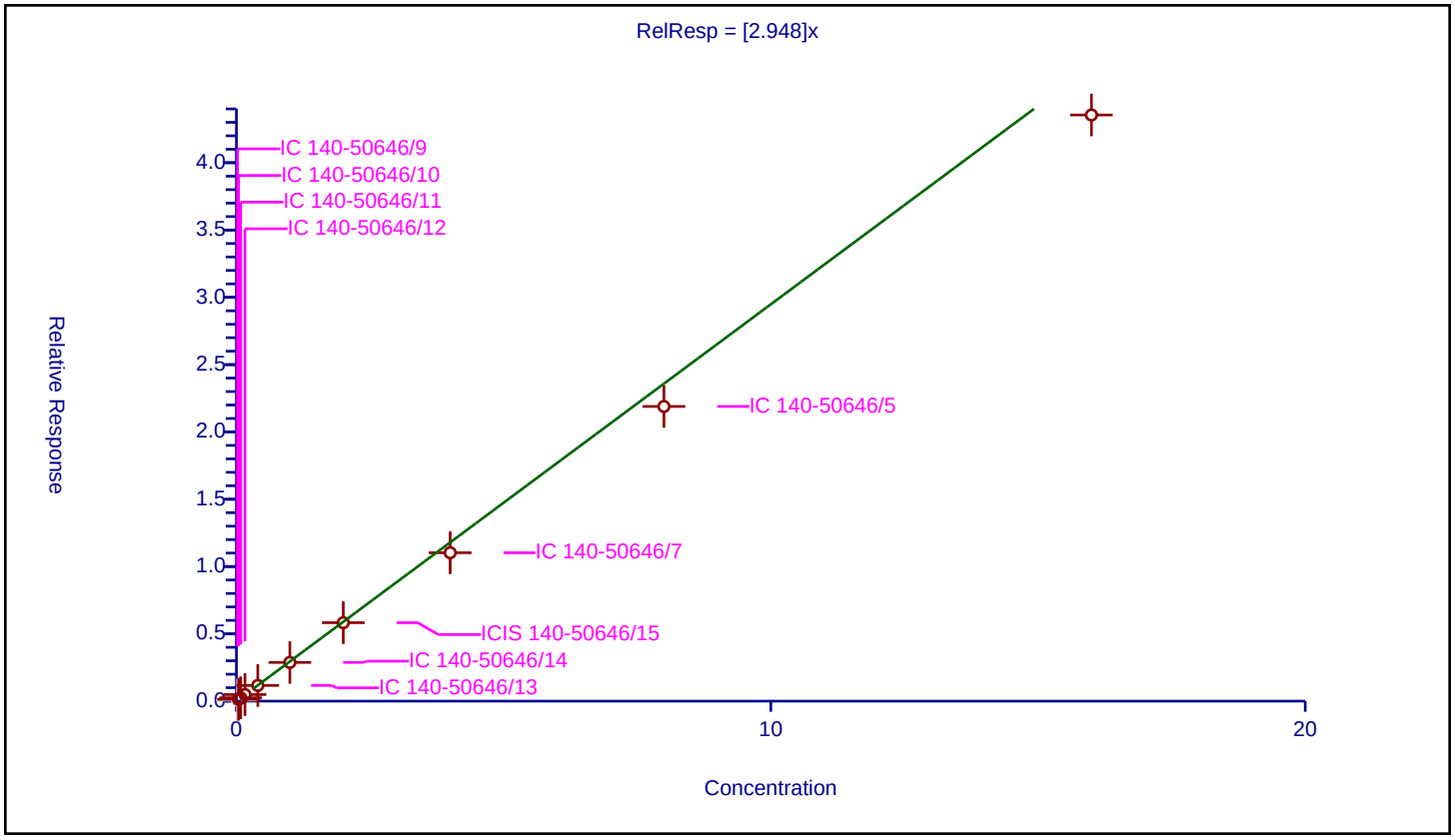
Curve Coefficients

Intercept:	0
Slope:	2.948

Error Coefficients

Standard Error:	841000
Relative Standard Error:	7.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.077397	4.8	233807.0	3.869858	N
2	IC 140-50646/10	0.04	0.137117	4.8	216166.0	3.427921	Y
3	IC 140-50646/11	0.08	0.250874	4.8	206580.0	3.135928	Y
4	IC 140-50646/12	0.16	0.487973	4.8	198237.0	3.049834	Y
5	IC 140-50646/13	0.4	1.165942	4.8	204286.0	2.914855	Y
6	IC 140-50646/14	1.0	2.876023	4.8	212198.0	2.876023	Y
7	ICIS 140-50646/15	2.0	5.829049	4.8	216764.0	2.914525	Y
8	IC 140-50646/7	4.0	11.024823	4.8	248836.0	2.756206	Y
9	IC 140-50646/5	8.0	21.892643	4.8	242745.0	2.73658	Y
10	IC 140-50646/3	16.0	43.546709	4.8	220902.0	2.721669	Y



Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

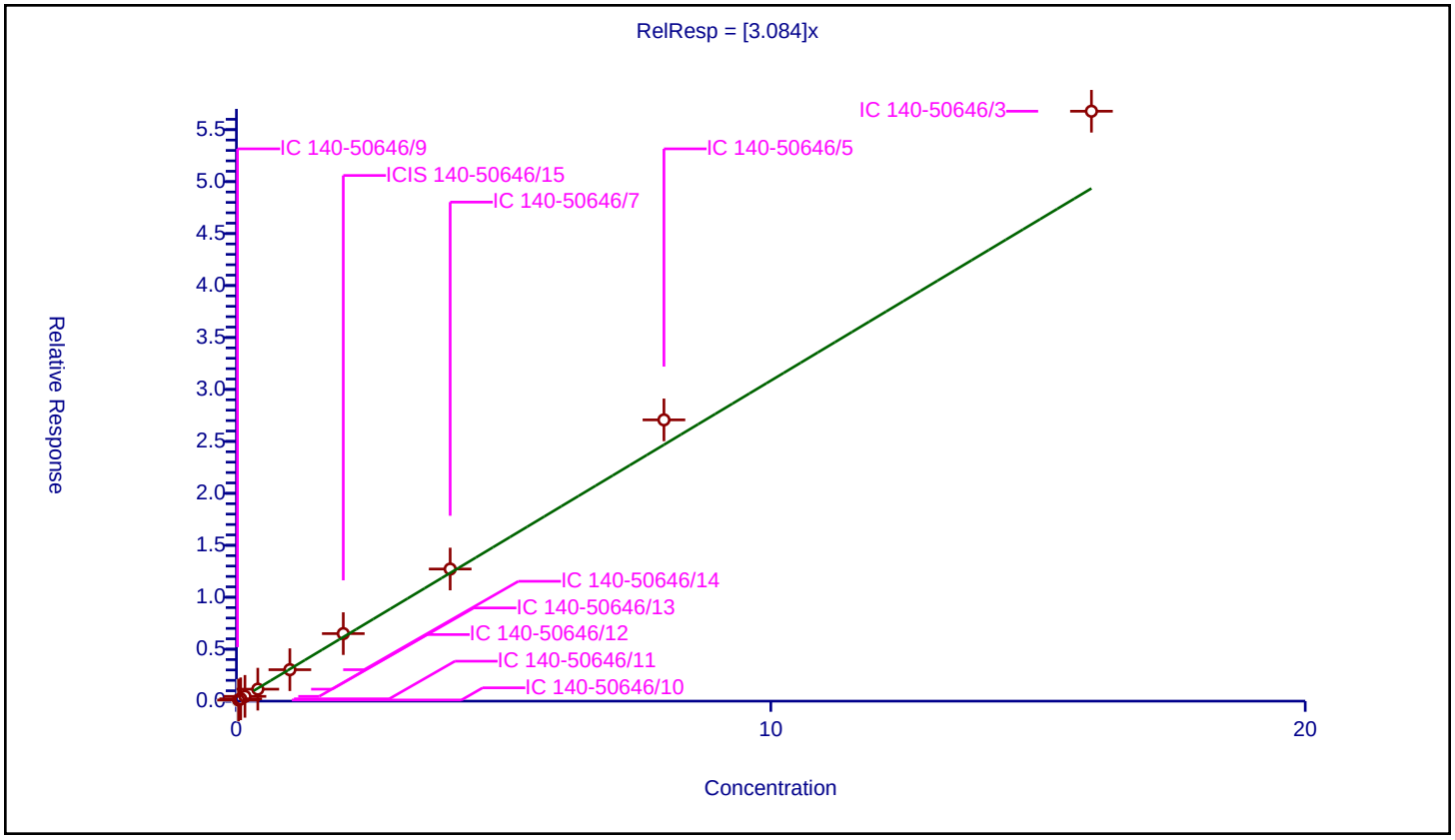
Curve Coefficients

Intercept:	0
Slope:	3.084

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	8.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.068528	4.8	233807.0	3.426416	N
2	IC 140-50646/10	0.04	0.112491	4.8	216166.0	2.812283	Y
3	IC 140-50646/11	0.08	0.224014	4.8	206580.0	2.800174	Y
4	IC 140-50646/12	0.16	0.46083	4.8	198237.0	2.880189	Y
5	IC 140-50646/13	0.4	1.152314	4.8	204286.0	2.880785	Y
6	IC 140-50646/14	1.0	3.024933	4.8	212198.0	3.024933	Y
7	ICIS 140-50646/15	2.0	6.499943	4.8	216764.0	3.249971	Y
8	IC 140-50646/7	4.0	12.714225	4.8	248836.0	3.178556	Y
9	IC 140-50646/5	8.0	27.071253	4.8	242745.0	3.383907	Y
10	IC 140-50646/3	16.0	56.773556	4.8	220902.0	3.548347	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

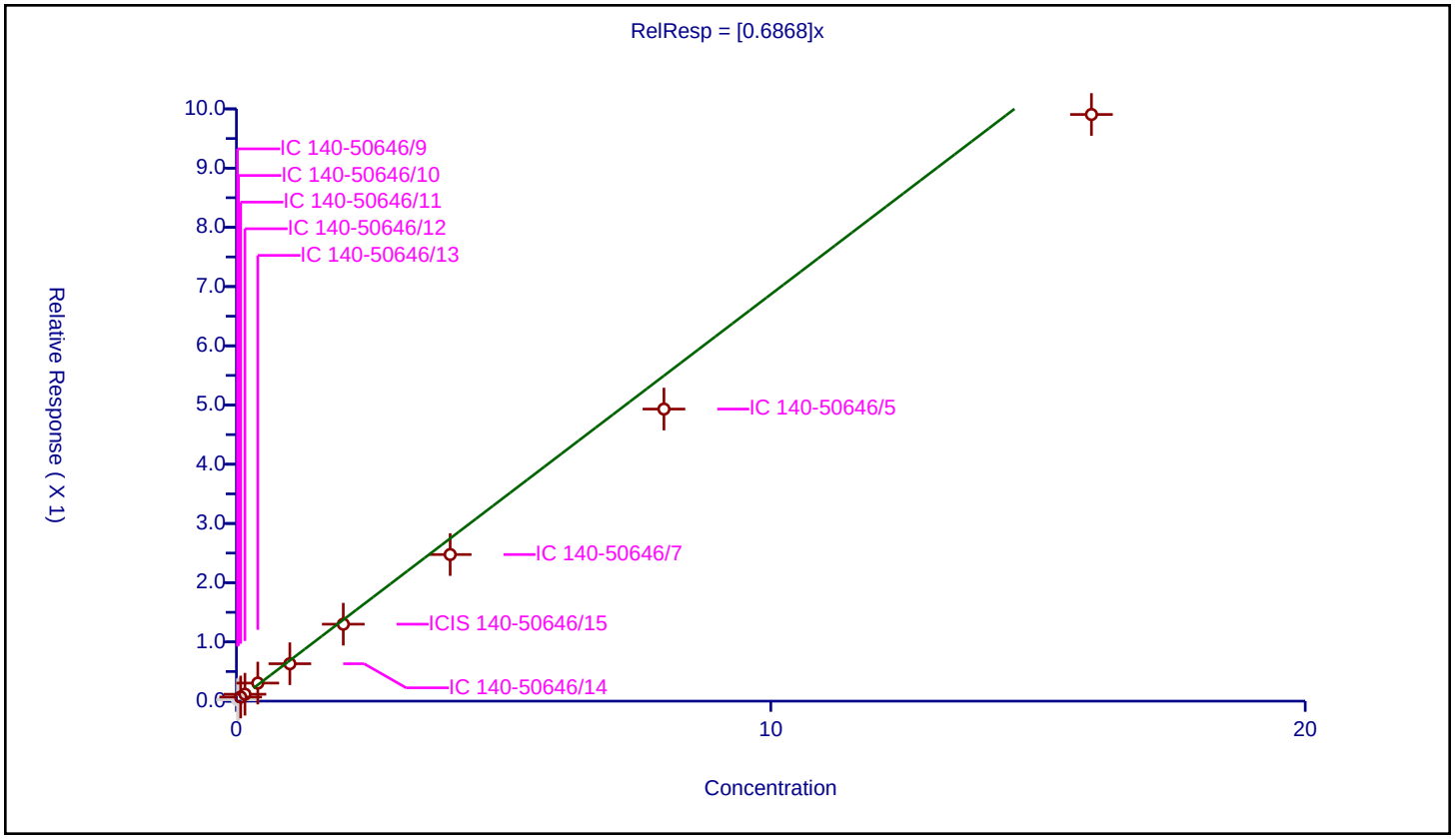
Curve Coefficients

Intercept:	0
Slope:	0.6868

Error Coefficients

Standard Error:	204000
Relative Standard Error:	13.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.023117	4.8	233807.0	1.155825	N
2	IC 140-50646/10	0.04	0.034729	4.8	216166.0	0.868222	N
3	IC 140-50646/11	0.08	0.069405	4.8	206580.0	0.867557	Y
4	IC 140-50646/12	0.16	0.116636	4.8	198237.0	0.728976	Y
5	IC 140-50646/13	0.4	0.304961	4.8	204286.0	0.762402	Y
6	IC 140-50646/14	1.0	0.631448	4.8	212198.0	0.631448	Y
7	ICIS 140-50646/15	2.0	1.299559	4.8	216764.0	0.649779	Y
8	IC 140-50646/7	4.0	2.475655	4.8	248836.0	0.618914	Y
9	IC 140-50646/5	8.0	4.931714	4.8	242745.0	0.616464	Y
10	IC 140-50646/3	16.0	9.905446	4.8	220902.0	0.61909	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

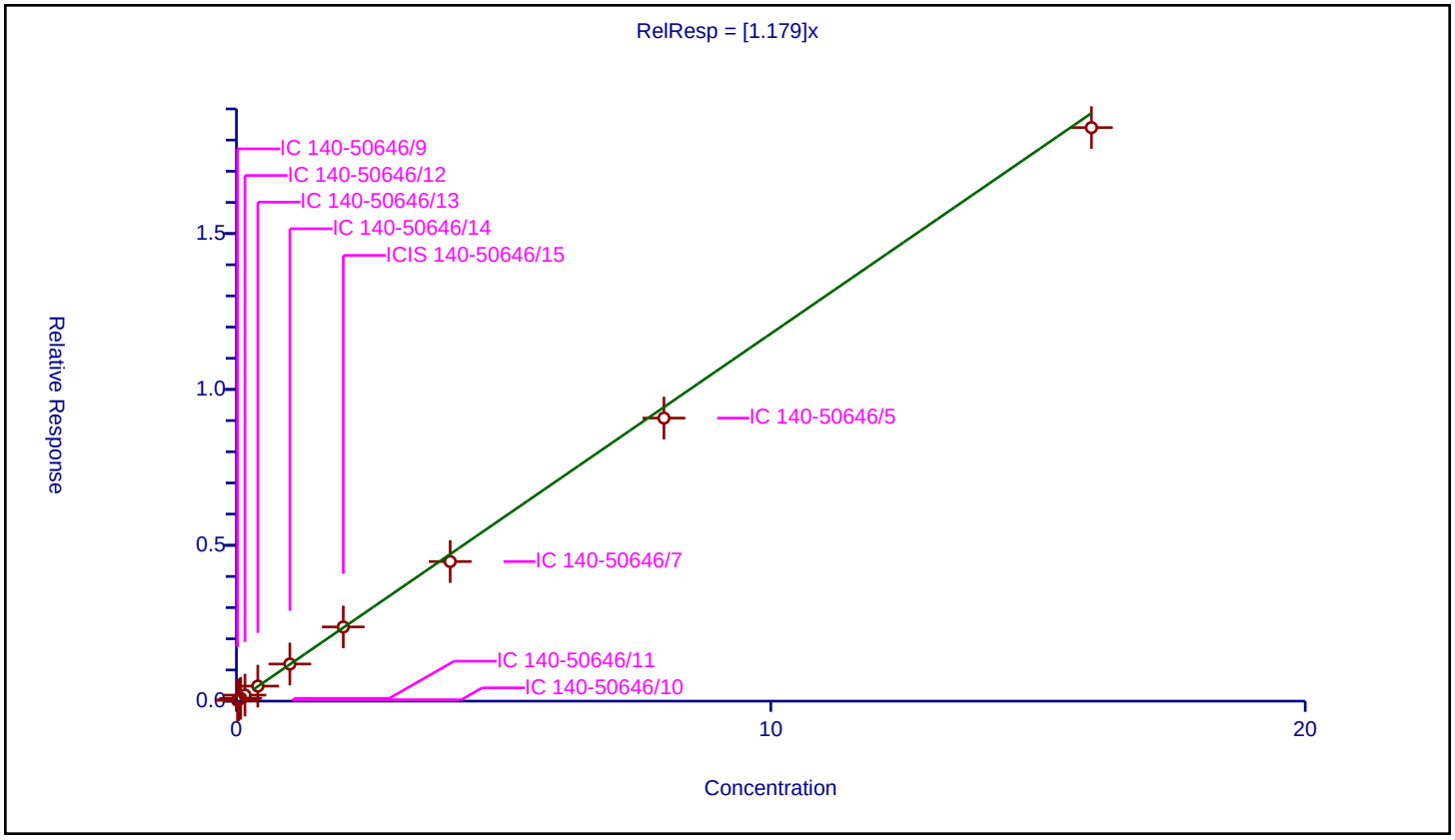
Curve Coefficients

Intercept:	0
Slope:	1.179

Error Coefficients

Standard Error:	333000
Relative Standard Error:	4.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.025744	4.8	233807.0	1.287216	Y
2	IC 140-50646/10	0.04	0.046742	4.8	216166.0	1.168546	Y
3	IC 140-50646/11	0.08	0.090805	4.8	206580.0	1.135057	Y
4	IC 140-50646/12	0.16	0.193247	4.8	198237.0	1.207797	Y
5	IC 140-50646/13	0.4	0.481983	4.8	204286.0	1.204958	Y
6	IC 140-50646/14	1.0	1.190714	4.8	212198.0	1.190714	Y
7	ICIS 140-50646/15	2.0	2.379827	4.8	216764.0	1.189913	Y
8	IC 140-50646/7	4.0	4.478535	4.8	248836.0	1.119634	Y
9	IC 140-50646/5	8.0	9.080877	4.8	242745.0	1.13511	Y
10	IC 140-50646/3	16.0	18.399913	4.8	220902.0	1.149995	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

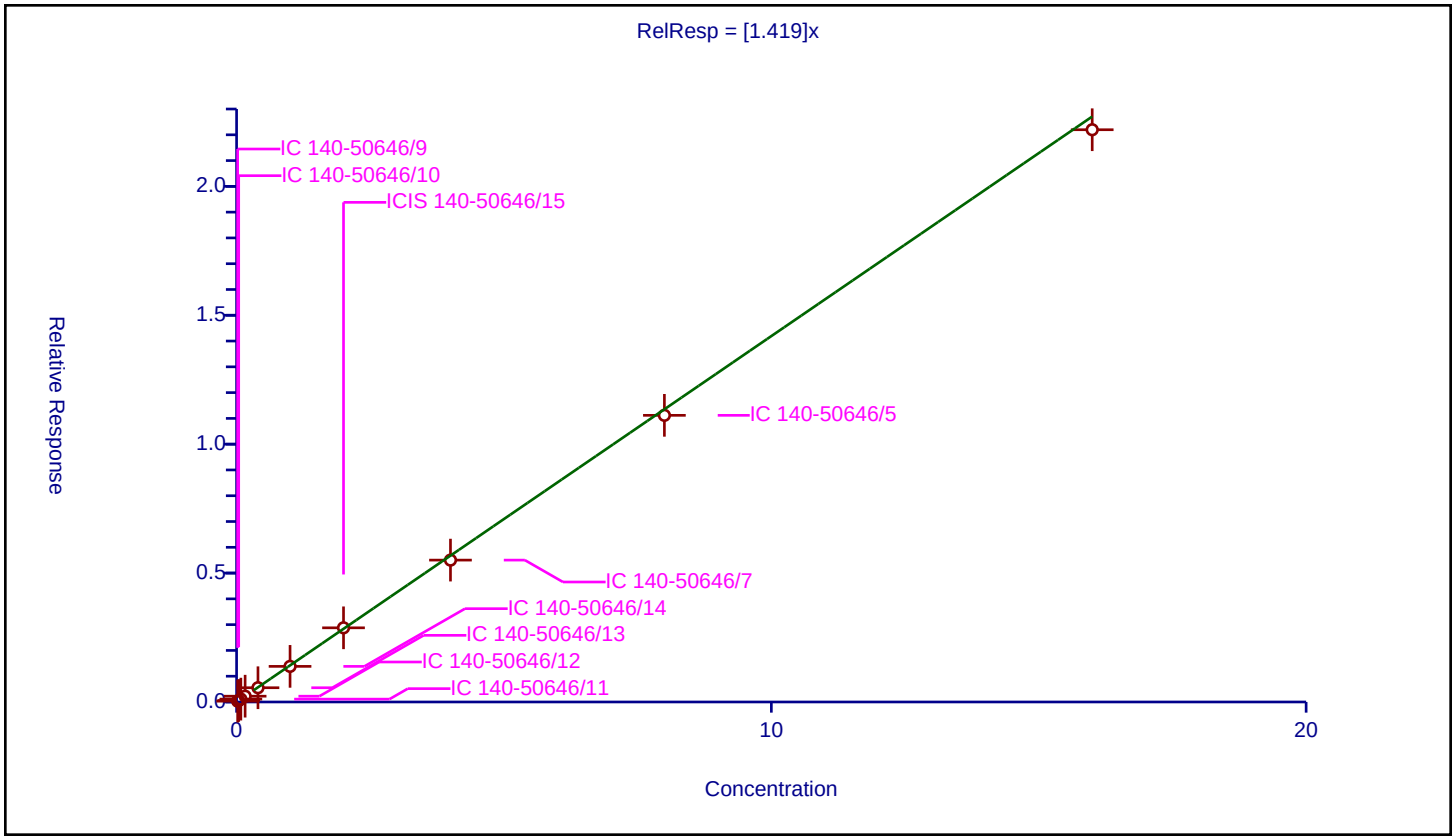
Curve Coefficients

Intercept:	0
Slope:	1.419

Error Coefficients

Standard Error:	403000
Relative Standard Error:	4.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.031472	4.8	233807.0	1.573606	Y
2	IC 140-50646/10	0.04	0.058533	4.8	216166.0	1.46332	Y
3	IC 140-50646/11	0.08	0.11167	4.8	206580.0	1.395876	Y
4	IC 140-50646/12	0.16	0.224677	4.8	198237.0	1.404228	Y
5	IC 140-50646/13	0.4	0.553013	4.8	204286.0	1.382532	Y
6	IC 140-50646/14	1.0	1.380861	4.8	212198.0	1.380861	Y
7	ICIS 140-50646/15	2.0	2.877511	4.8	216764.0	1.438756	Y
8	IC 140-50646/7	4.0	5.502998	4.8	248836.0	1.375749	Y
9	IC 140-50646/5	8.0	11.118433	4.8	242745.0	1.389804	Y
10	IC 140-50646/3	16.0	22.196833	4.8	220902.0	1.387302	Y



Calibration / Ethyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

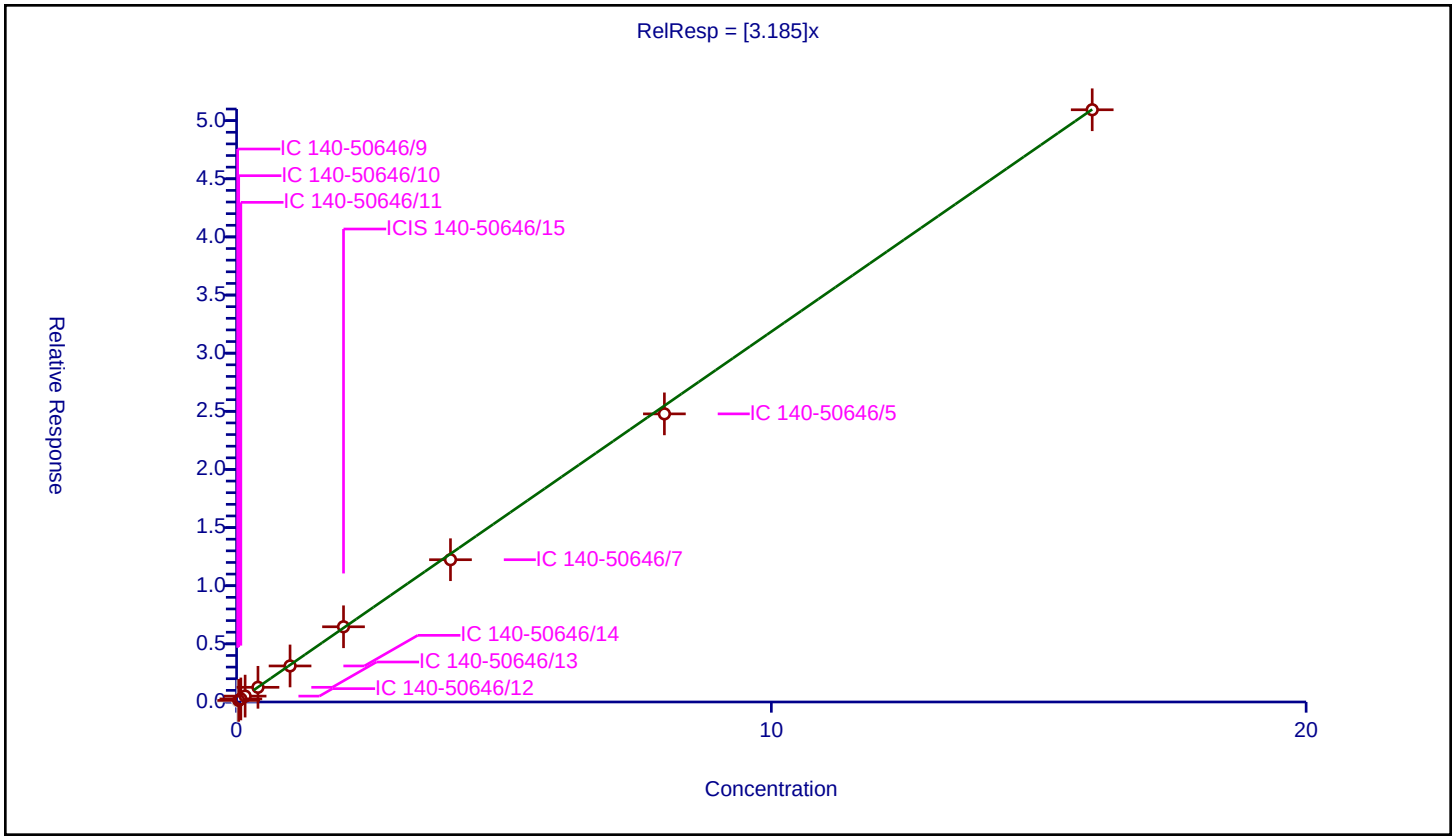
Curve Coefficients

Intercept:	0
Slope:	3.185

Error Coefficients

Standard Error:	973000
Relative Standard Error:	3.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.076843	4.8	233807.0	3.842143	N
2	IC 140-50646/10	0.04	0.135873	4.8	216166.0	3.396834	Y
3	IC 140-50646/11	0.08	0.261958	4.8	206580.0	3.27447	Y
4	IC 140-50646/12	0.16	0.506521	4.8	198237.0	3.165756	Y
5	IC 140-50646/13	0.4	1.262512	4.8	204286.0	3.156281	Y
6	IC 140-50646/14	1.0	3.100531	4.8	212198.0	3.100531	Y
7	ICIS 140-50646/15	2.0	6.468853	4.8	216764.0	3.234426	Y
8	IC 140-50646/7	4.0	12.237766	4.8	248836.0	3.059442	Y
9	IC 140-50646/5	8.0	24.780197	4.8	242745.0	3.097525	Y
10	IC 140-50646/3	16.0	50.934927	4.8	220902.0	3.183433	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

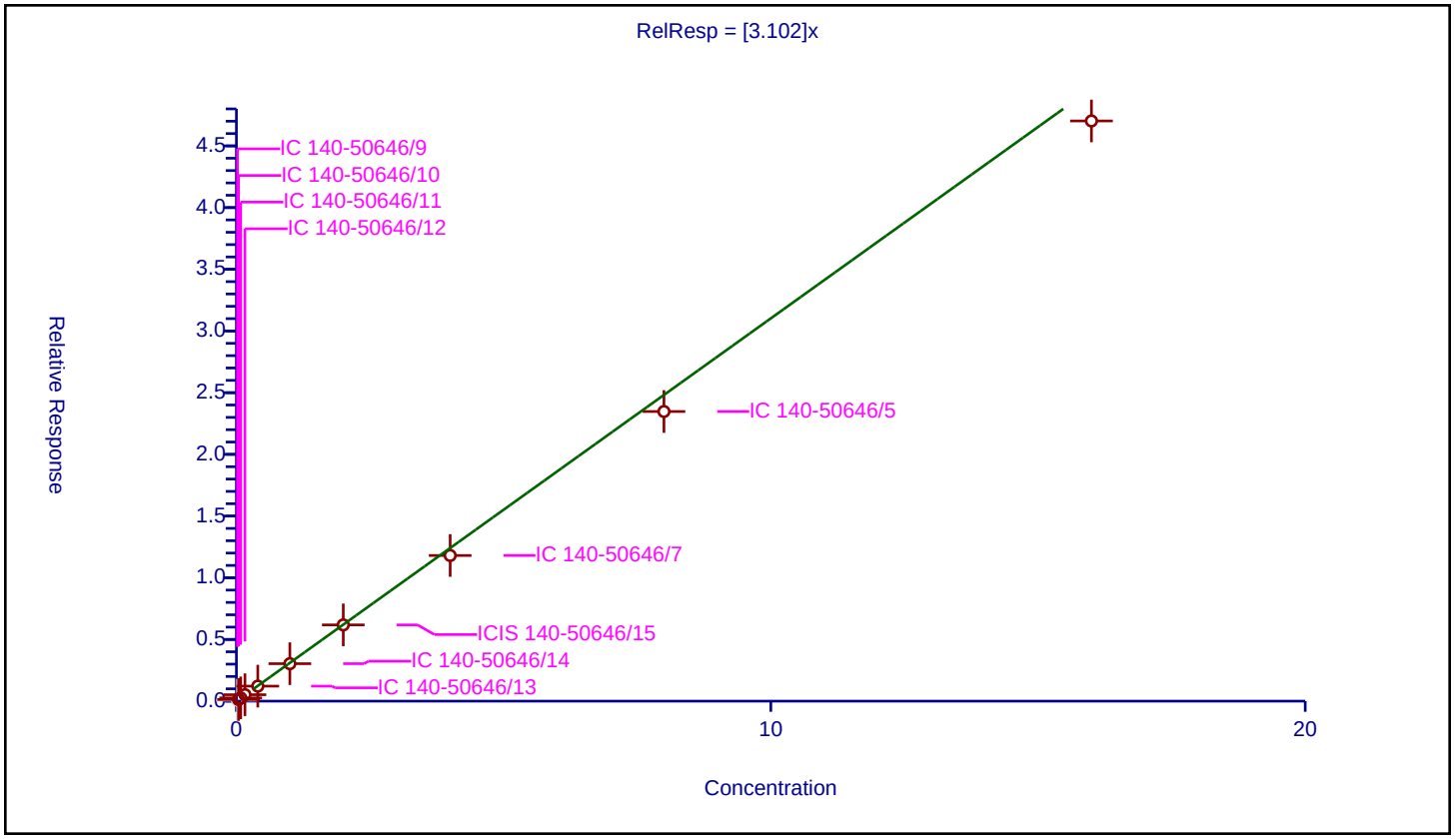
Curve Coefficients

Intercept:	0
Slope:	3.102

Error Coefficients

Standard Error:	906000
Relative Standard Error:	5.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.082037	4.8	233807.0	4.101845	N
2	IC 140-50646/10	0.04	0.13554	4.8	216166.0	3.388507	Y
3	IC 140-50646/11	0.08	0.26226	4.8	206580.0	3.278246	Y
4	IC 140-50646/12	0.16	0.521558	4.8	198237.0	3.259735	Y
5	IC 140-50646/13	0.4	1.217399	4.8	204286.0	3.043498	Y
6	IC 140-50646/14	1.0	3.035678	4.8	212198.0	3.035678	Y
7	ICIS 140-50646/15	2.0	6.179764	4.8	216764.0	3.089882	Y
8	IC 140-50646/7	4.0	11.80336	4.8	248836.0	2.95084	Y
9	IC 140-50646/5	8.0	23.473739	4.8	242745.0	2.934217	Y
10	IC 140-50646/3	16.0	47.021213	4.8	220902.0	2.938826	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

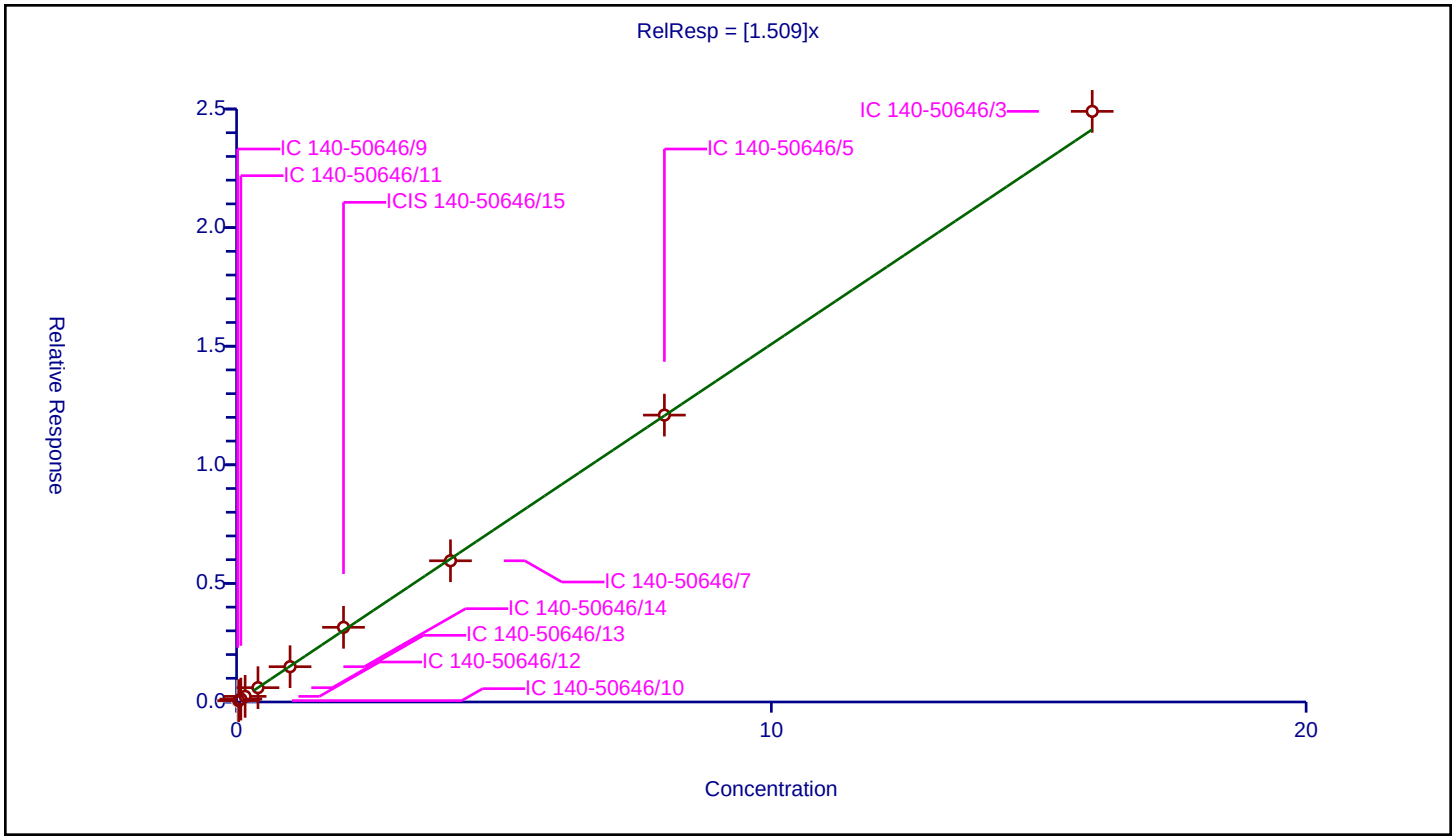
Curve Coefficients

Intercept:	0
Slope:	1.509

Error Coefficients

Standard Error:	475000
Relative Standard Error:	2.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.035701	4.8	233807.0	1.785062	N
2	IC 140-50646/10	0.04	0.057756	4.8	216166.0	1.44389	Y
3	IC 140-50646/11	0.08	0.12208	4.8	206580.0	1.525995	Y
4	IC 140-50646/12	0.16	0.236953	4.8	198237.0	1.480955	Y
5	IC 140-50646/13	0.4	0.603295	4.8	204286.0	1.508238	Y
6	IC 140-50646/14	1.0	1.487743	4.8	212198.0	1.487743	Y
7	ICIS 140-50646/15	2.0	3.148486	4.8	216764.0	1.574243	Y
8	IC 140-50646/7	4.0	5.953338	4.8	248836.0	1.488334	Y
9	IC 140-50646/5	8.0	12.094984	4.8	242745.0	1.511873	Y
10	IC 140-50646/3	16.0	24.900997	4.8	220902.0	1.556312	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

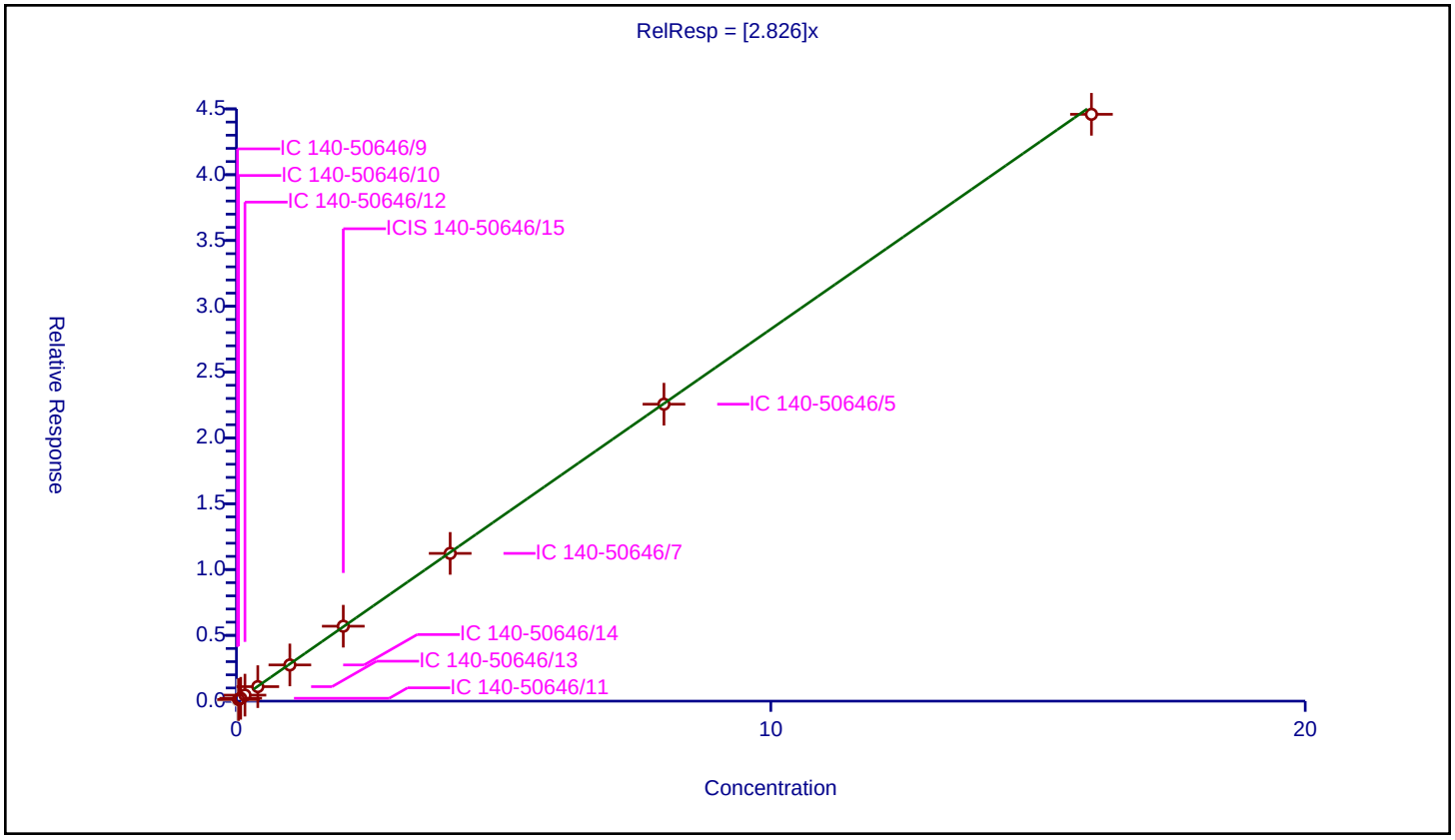
Curve Coefficients

Intercept:	0
Slope:	2.826

Error Coefficients

Standard Error:	861000
Relative Standard Error:	4.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.074441	4.8	233807.0	3.722044	N
2	IC 140-50646/10	0.04	0.124105	4.8	216166.0	3.102616	Y
3	IC 140-50646/11	0.08	0.217554	4.8	206580.0	2.719431	Y
4	IC 140-50646/12	0.16	0.45623	4.8	198237.0	2.851435	Y
5	IC 140-50646/13	0.4	1.101703	4.8	204286.0	2.754256	Y
6	IC 140-50646/14	1.0	2.750231	4.8	212198.0	2.750231	Y
7	ICIS 140-50646/15	2.0	5.692842	4.8	216764.0	2.846421	Y
8	IC 140-50646/7	4.0	11.225938	4.8	248836.0	2.806485	Y
9	IC 140-50646/5	8.0	22.563688	4.8	242745.0	2.820461	Y
10	IC 140-50646/3	16.0	44.589988	4.8	220902.0	2.786874	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

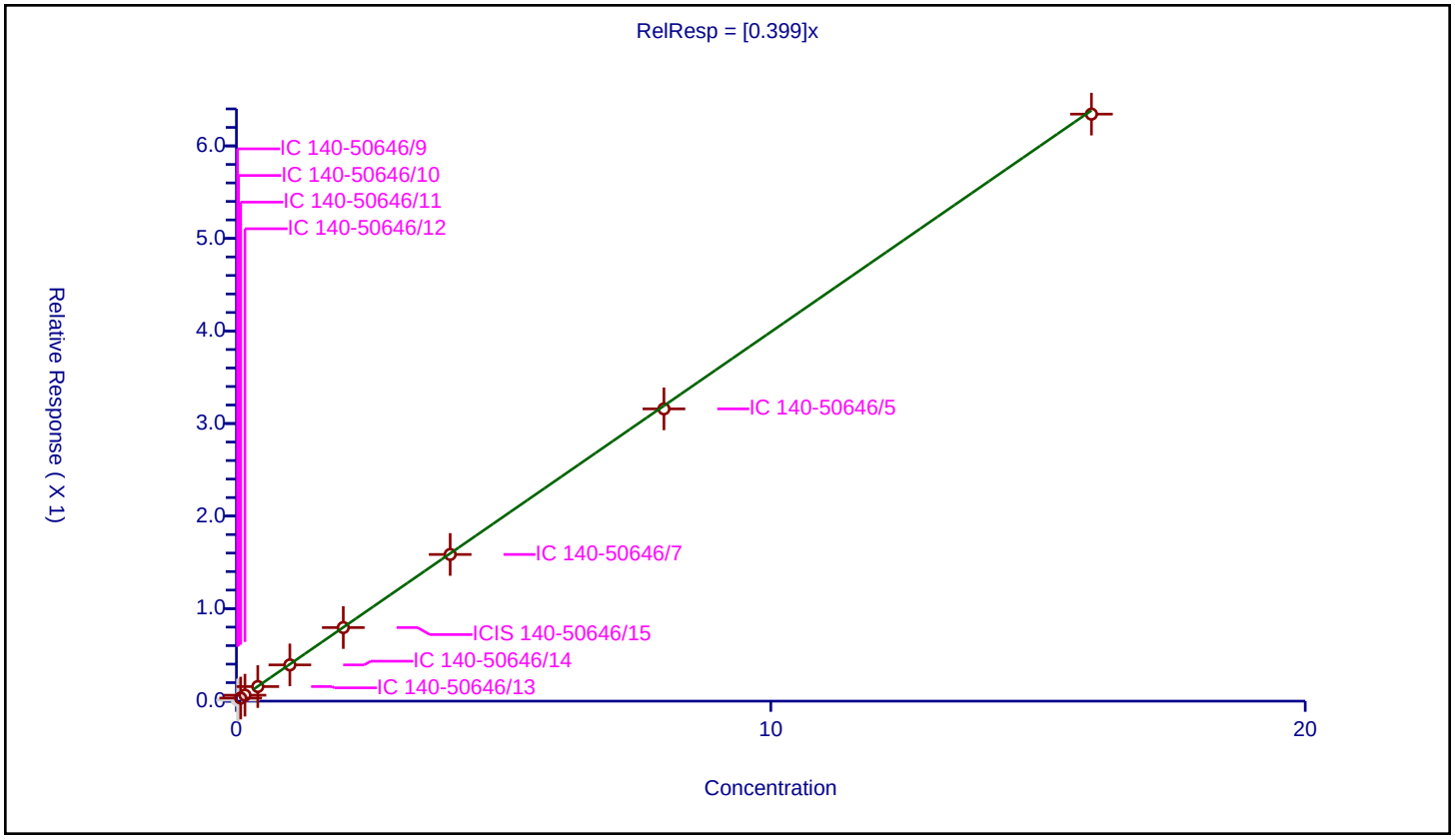
Curve Coefficients

Intercept:	0
Slope:	0.399

Error Coefficients

Standard Error:	631000
Relative Standard Error:	2.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.010667	4.8	1151515.0	0.53335	N
2	IC 140-50646/10	0.04	0.019103	4.8	1068658.0	0.477571	N
3	IC 140-50646/11	0.08	0.033465	4.8	1019100.0	0.41831	Y
4	IC 140-50646/12	0.16	0.064445	4.8	1000141.0	0.402783	Y
5	IC 140-50646/13	0.4	0.157631	4.8	1039626.0	0.394076	Y
6	IC 140-50646/14	1.0	0.391496	4.8	1057775.0	0.391496	Y
7	ICIS 140-50646/15	2.0	0.795089	4.8	1091989.0	0.397545	Y
8	IC 140-50646/7	4.0	1.58501	4.8	1213744.0	0.396253	Y
9	IC 140-50646/5	8.0	3.158223	4.8	1188188.0	0.394778	Y
10	IC 140-50646/3	16.0	6.34348	4.8	1062554.0	0.396467	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

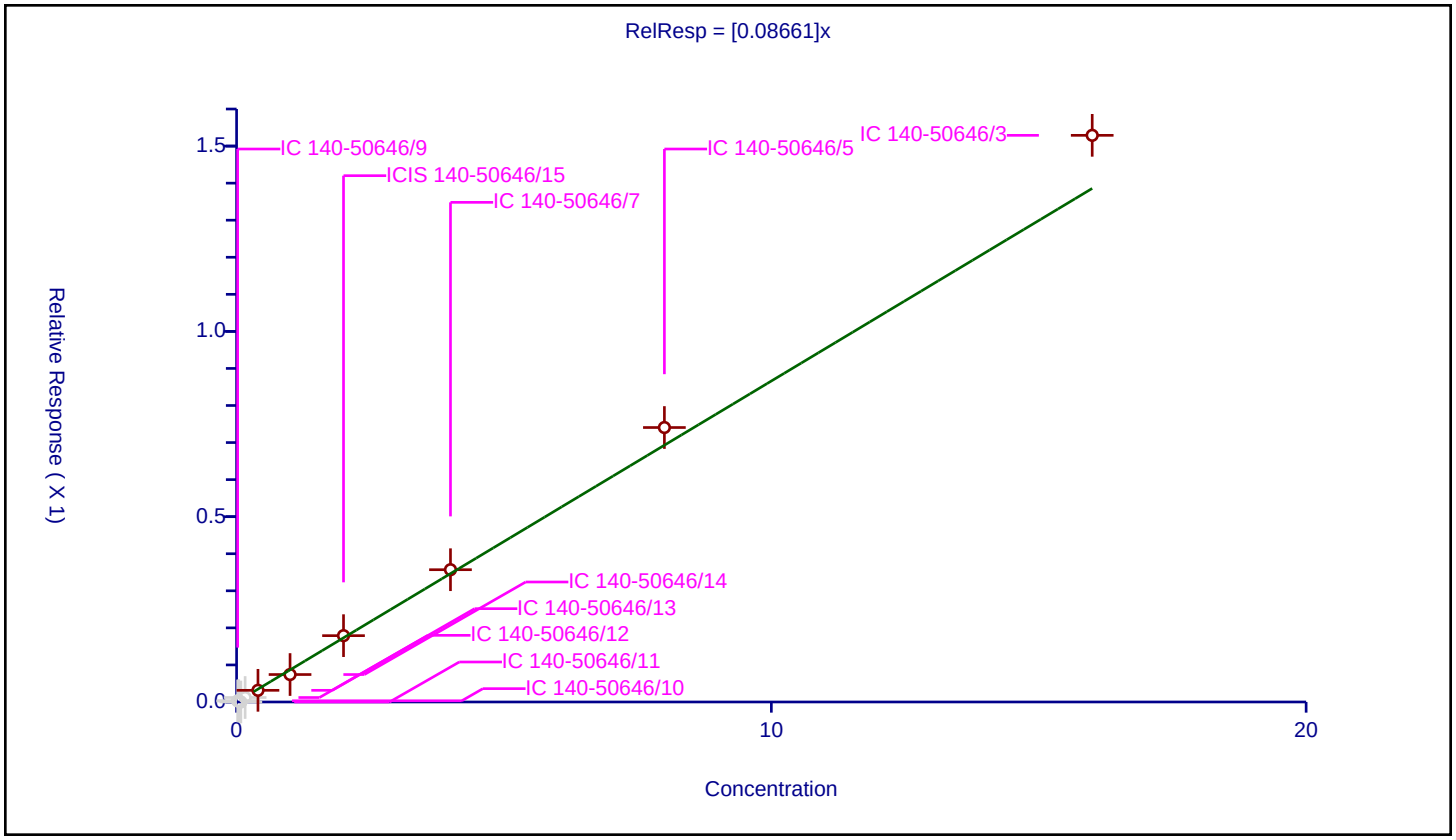
Curve Coefficients

Intercept:	0
Slope:	0.08661

Error Coefficients

Standard Error:	178000
Relative Standard Error:	9.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.002868	4.8	1151515.0	0.143394	N
2	IC 140-50646/10	0.04	0.003274	4.8	1068658.0	0.08186	N
3	IC 140-50646/11	0.08	0.0	4.8	1019100.0	0.0	N
4	IC 140-50646/12	0.16	0.01208	4.8	1000141.0	0.075499	N
5	IC 140-50646/13	0.4	0.031479	4.8	1039626.0	0.078698	Y
6	IC 140-50646/14	1.0	0.074098	4.8	1057775.0	0.074098	Y
7	ICIS 140-50646/15	2.0	0.178956	4.8	1091989.0	0.089478	Y
8	IC 140-50646/7	4.0	0.356908	4.8	1213744.0	0.089227	Y
9	IC 140-50646/5	8.0	0.740578	4.8	1188188.0	0.092572	Y
10	IC 140-50646/3	16.0	1.528997	4.8	1062554.0	0.095562	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

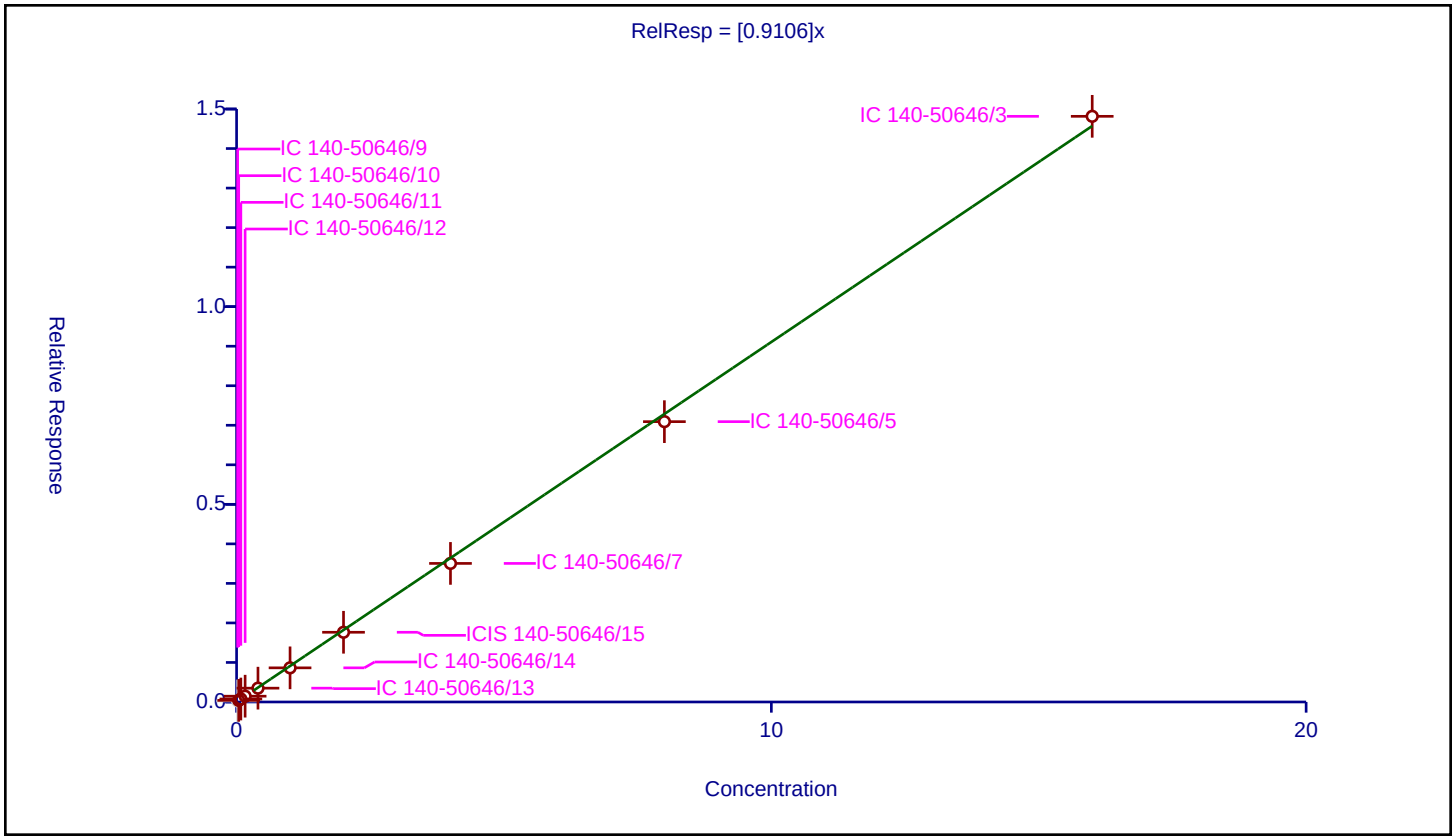
Curve Coefficients

Intercept:	0
Slope:	0.9106

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.026928	4.8	1151515.0	1.3464	N
2	IC 140-50646/10	0.04	0.04108	4.8	1068658.0	1.027008	Y
3	IC 140-50646/11	0.08	0.075342	4.8	1019100.0	0.941772	Y
4	IC 140-50646/12	0.16	0.146802	4.8	1000141.0	0.917511	Y
5	IC 140-50646/13	0.4	0.349917	4.8	1039626.0	0.874792	Y
6	IC 140-50646/14	1.0	0.863971	4.8	1057775.0	0.863971	Y
7	ICIS 140-50646/15	2.0	1.763802	4.8	1091989.0	0.881901	Y
8	IC 140-50646/7	4.0	3.505233	4.8	1213744.0	0.876308	Y
9	IC 140-50646/5	8.0	7.091375	4.8	1188188.0	0.886422	Y
10	IC 140-50646/3	16.0	14.815164	4.8	1062554.0	0.925948	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

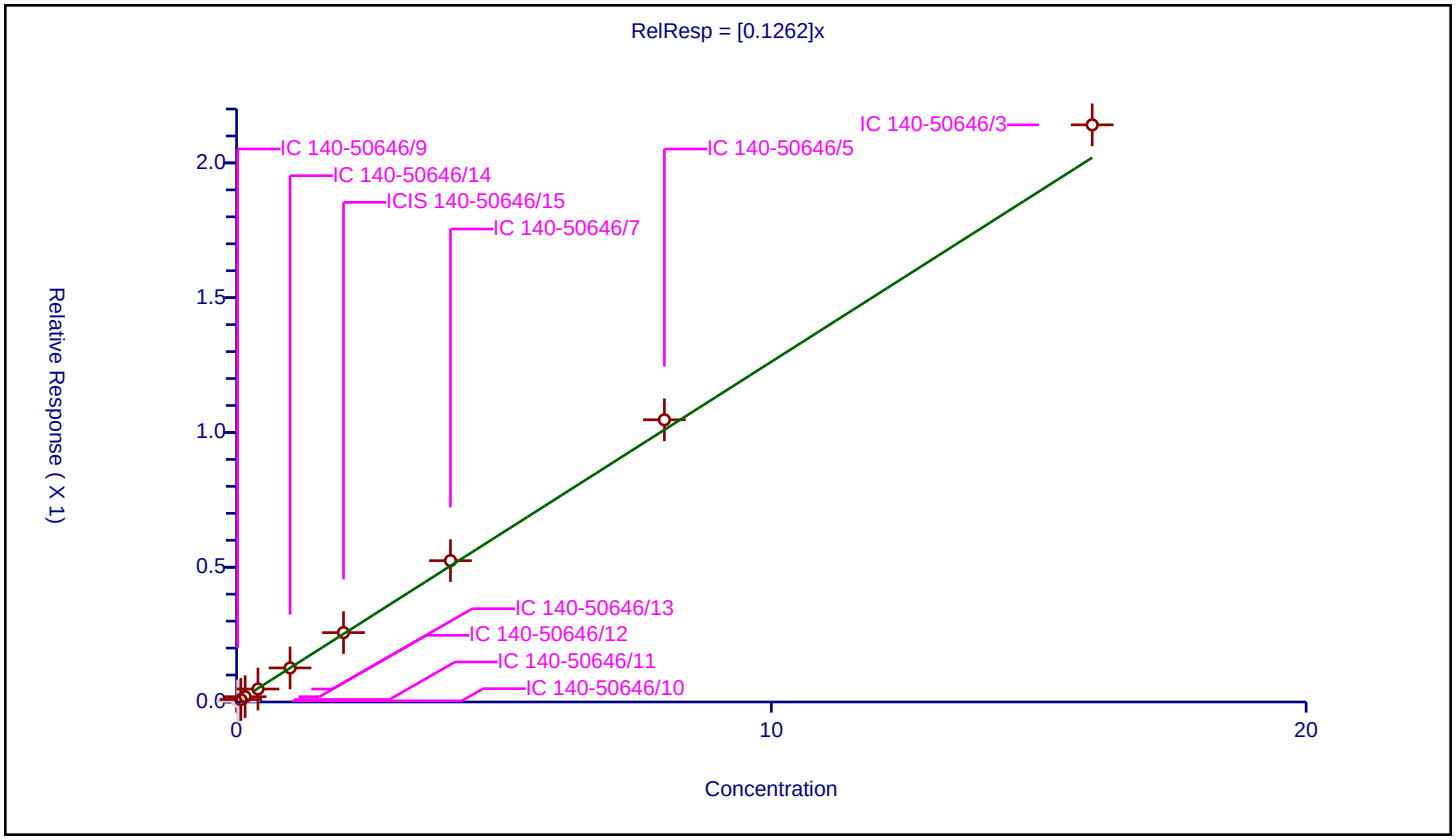
Curve Coefficients

Intercept:	0
Slope:	0.1262

Error Coefficients

Standard Error:	212000
Relative Standard Error:	4.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.002605	4.8	1151515.0	0.130263	N
2	IC 140-50646/10	0.04	0.004173	4.8	1068658.0	0.104318	N
3	IC 140-50646/11	0.08	0.009269	4.8	1019100.0	0.115867	Y
4	IC 140-50646/12	0.16	0.019644	4.8	1000141.0	0.122773	Y
5	IC 140-50646/13	0.4	0.048133	4.8	1039626.0	0.120332	Y
6	IC 140-50646/14	1.0	0.126351	4.8	1057775.0	0.126351	Y
7	ICIS 140-50646/15	2.0	0.257374	4.8	1091989.0	0.128687	Y
8	IC 140-50646/7	4.0	0.524386	4.8	1213744.0	0.131097	Y
9	IC 140-50646/5	8.0	1.047034	4.8	1188188.0	0.130879	Y
10	IC 140-50646/3	16.0	2.141238	4.8	1062554.0	0.133827	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

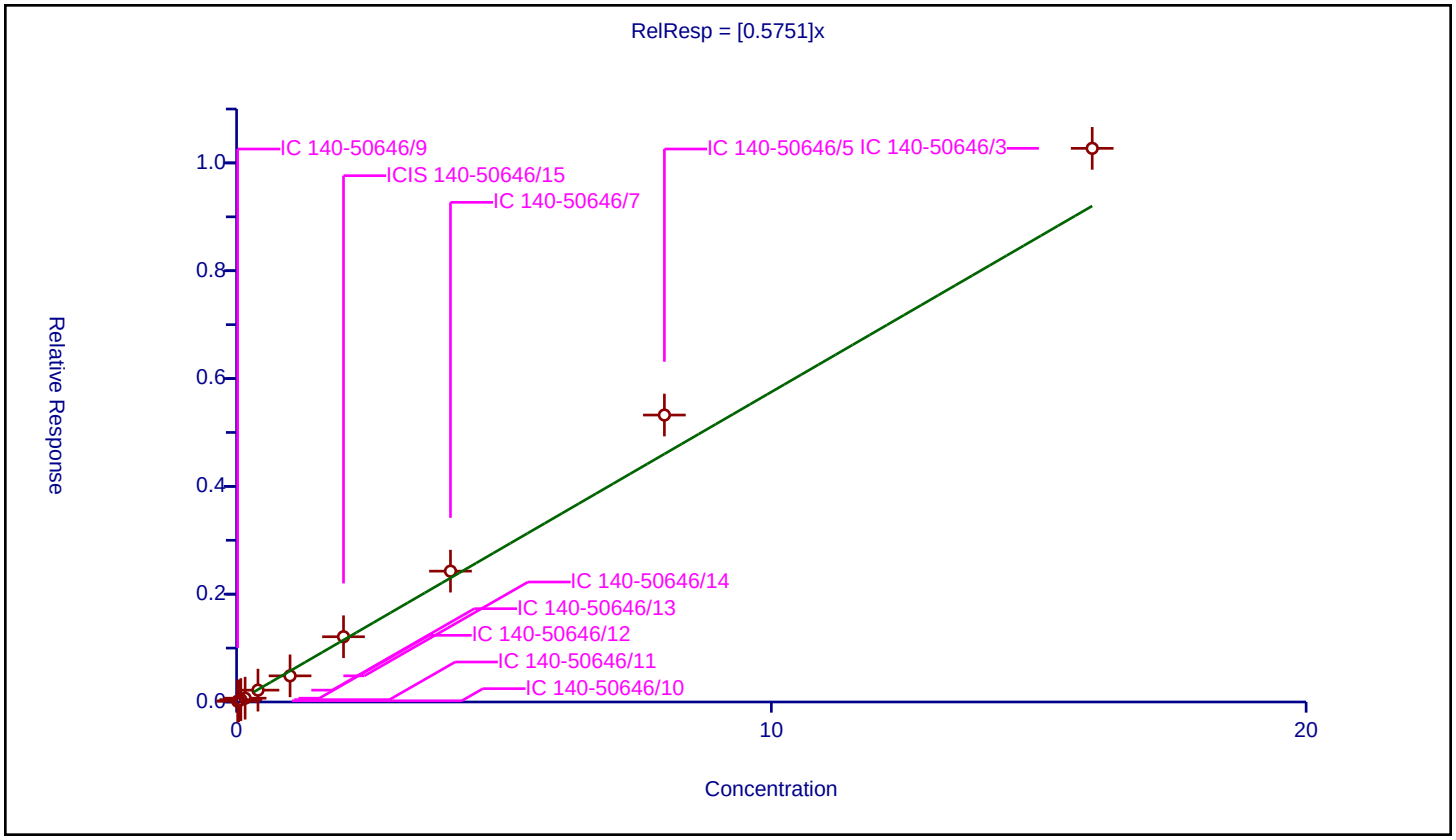
Curve Coefficients

Intercept:	0
Slope:	0.5751

Error Coefficients

Standard Error:	905000
Relative Standard Error:	12.7
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.01296	4.8	1151515.0	0.647981	Y
2	IC 140-50646/10	0.04	0.022454	4.8	1068658.0	0.56134	Y
3	IC 140-50646/11	0.08	0.043874	4.8	1019100.0	0.548425	Y
4	IC 140-50646/12	0.16	0.070276	4.8	1000141.0	0.439228	Y
5	IC 140-50646/13	0.4	0.219753	4.8	1039626.0	0.549382	Y
6	IC 140-50646/14	1.0	0.485157	4.8	1057775.0	0.485157	Y
7	ICIS 140-50646/15	2.0	1.210399	4.8	1091989.0	0.6052	Y
8	IC 140-50646/7	4.0	2.427299	4.8	1213744.0	0.606825	Y
9	IC 140-50646/5	8.0	5.323251	4.8	1188188.0	0.665406	Y
10	IC 140-50646/3	16.0	10.270421	4.8	1062554.0	0.641901	Y



Calibration / 2,3-Dimethylpentane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

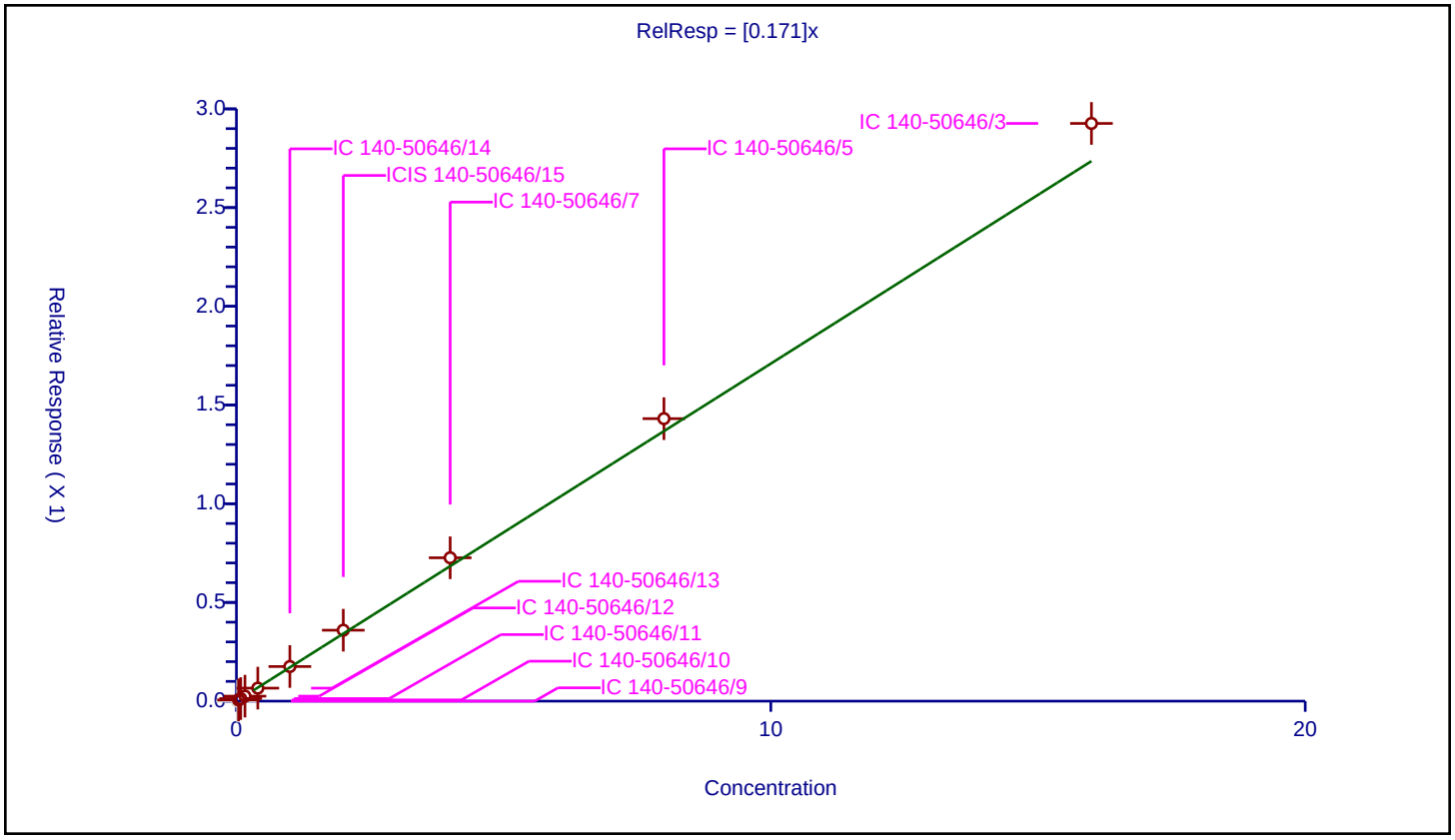
Curve Coefficients

Intercept:	0
Slope:	0.171

Error Coefficients

Standard Error:	271000
Relative Standard Error:	6.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.0	4.8	1151515.0	0.0	N
2	IC 140-50646/10	0.04	0.006216	4.8	1068658.0	0.15541	Y
3	IC 140-50646/11	0.08	0.012962	4.8	1019100.0	0.162025	Y
4	IC 140-50646/12	0.16	0.025316	4.8	1000141.0	0.158228	Y
5	IC 140-50646/13	0.4	0.065862	4.8	1039626.0	0.164655	Y
6	IC 140-50646/14	1.0	0.175342	4.8	1057775.0	0.175342	Y
7	ICIS 140-50646/15	2.0	0.35934	4.8	1091989.0	0.17967	Y
8	IC 140-50646/7	4.0	0.726203	4.8	1213744.0	0.181551	Y
9	IC 140-50646/5	8.0	1.430978	4.8	1188188.0	0.178872	Y
10	IC 140-50646/3	16.0	2.926293	4.8	1062554.0	0.182893	Y



Calibration / Thiophene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

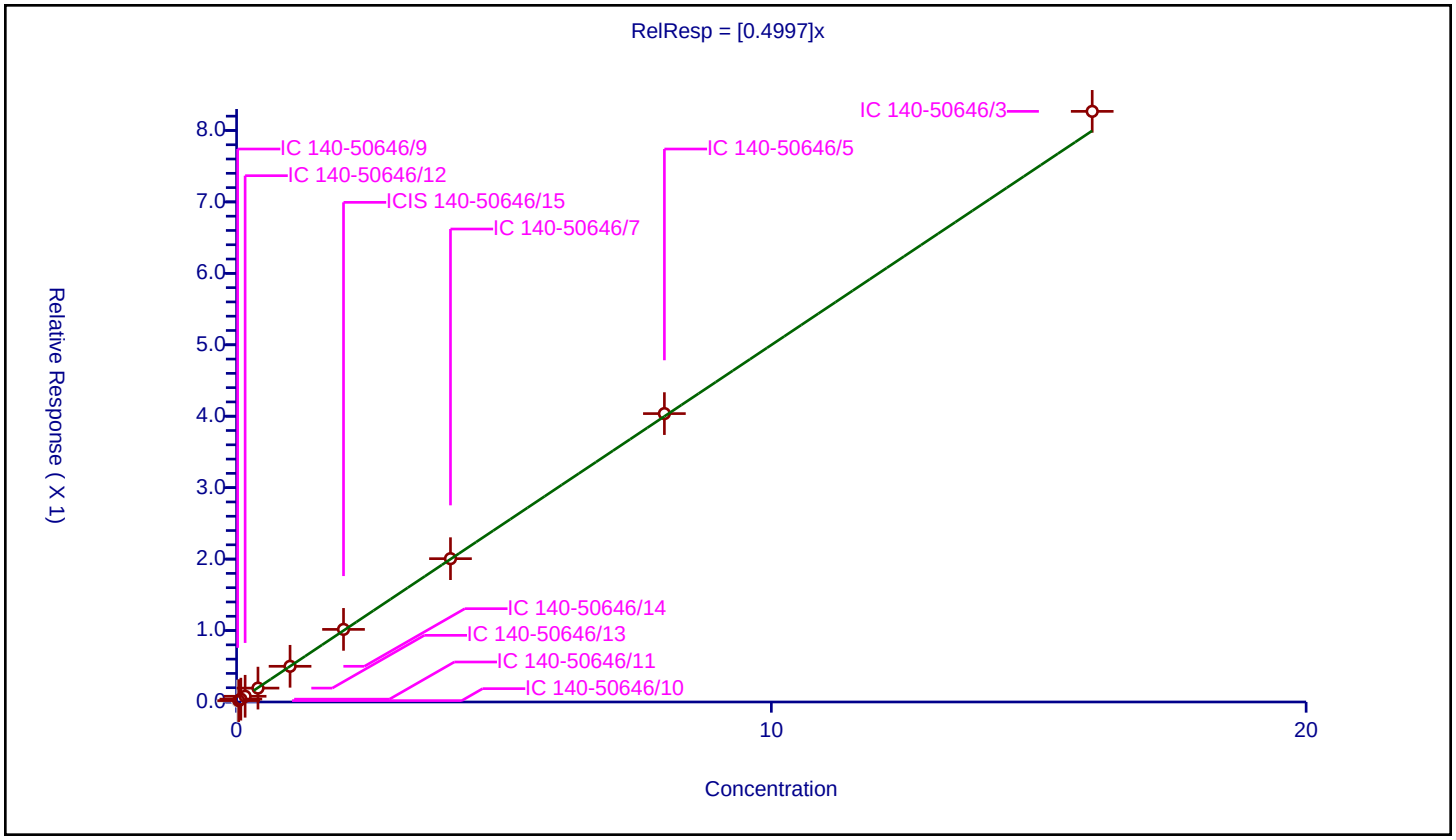
Curve Coefficients

Intercept:	0
Slope:	0.4997

Error Coefficients

Standard Error:	764000
Relative Standard Error:	2.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.012213	4.8	1151515.0	0.610674	N
2	IC 140-50646/10	0.04	0.019332	4.8	1068658.0	0.483298	Y
3	IC 140-50646/11	0.08	0.039842	4.8	1019100.0	0.498028	Y
4	IC 140-50646/12	0.16	0.08	4.8	1000141.0	0.5	Y
5	IC 140-50646/13	0.4	0.194313	4.8	1039626.0	0.485782	Y
6	IC 140-50646/14	1.0	0.499574	4.8	1057775.0	0.499574	Y
7	ICIS 140-50646/15	2.0	1.016155	4.8	1091989.0	0.508078	Y
8	IC 140-50646/7	4.0	2.006234	4.8	1213744.0	0.501558	Y
9	IC 140-50646/5	8.0	4.036791	4.8	1188188.0	0.504599	Y
10	IC 140-50646/3	16.0	8.267159	4.8	1062554.0	0.516697	Y



Calibration / Isooctane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

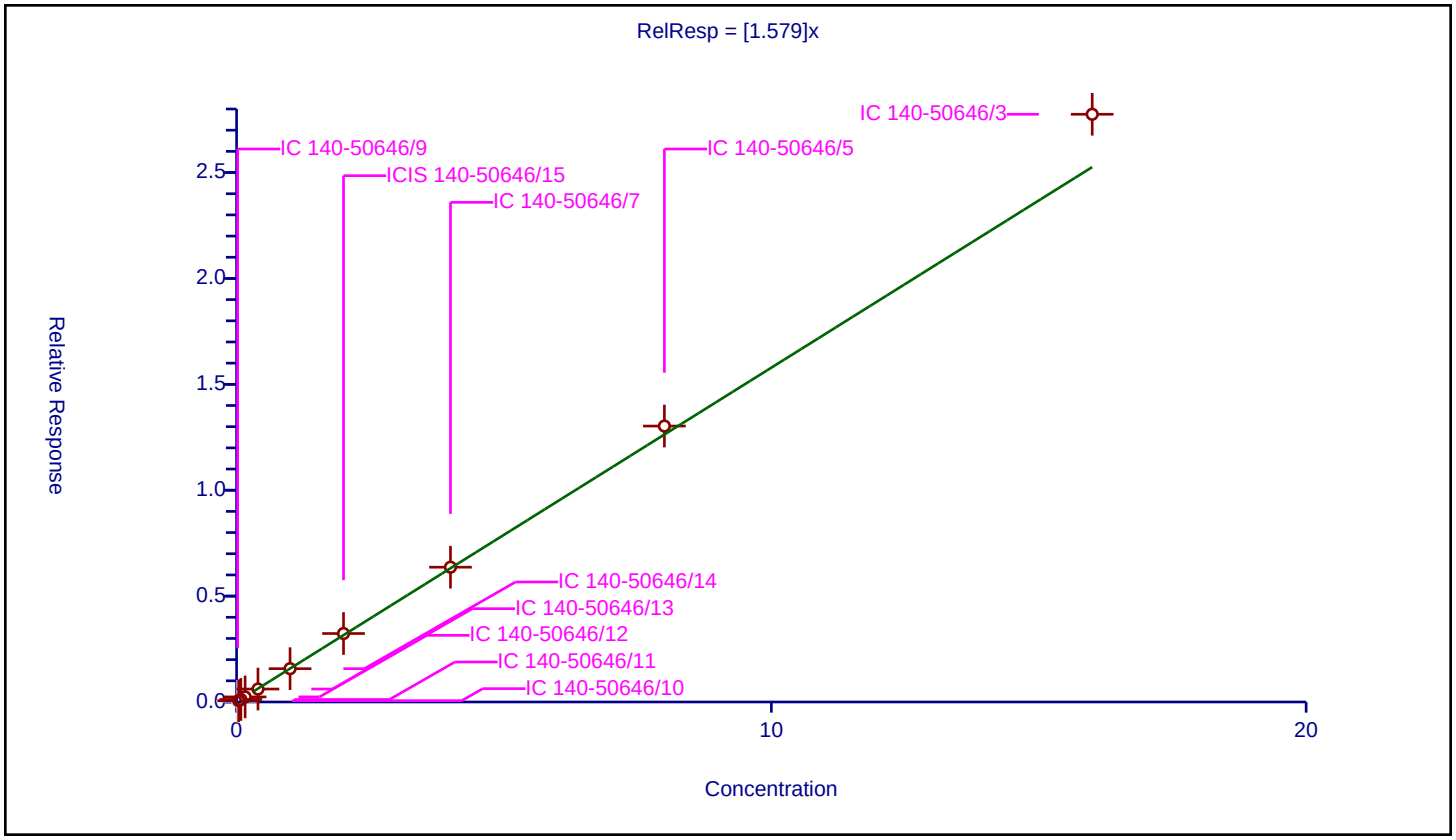
Curve Coefficients

Intercept:	0
Slope:	1.579

Error Coefficients

Standard Error:	2540000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.035344	4.8	1151515.0	1.767202	N
2	IC 140-50646/10	0.04	0.061912	4.8	1068658.0	1.54781	Y
3	IC 140-50646/11	0.08	0.119225	4.8	1019100.0	1.490315	Y
4	IC 140-50646/12	0.16	0.239741	4.8	1000141.0	1.498379	Y
5	IC 140-50646/13	0.4	0.610909	4.8	1039626.0	1.527272	Y
6	IC 140-50646/14	1.0	1.572852	4.8	1057775.0	1.572852	Y
7	ICIS 140-50646/15	2.0	3.232802	4.8	1091989.0	1.616401	Y
8	IC 140-50646/7	4.0	6.364893	4.8	1213744.0	1.591223	Y
9	IC 140-50646/5	8.0	13.029946	4.8	1188188.0	1.628743	Y
10	IC 140-50646/3	16.0	27.752321	4.8	1062554.0	1.73452	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

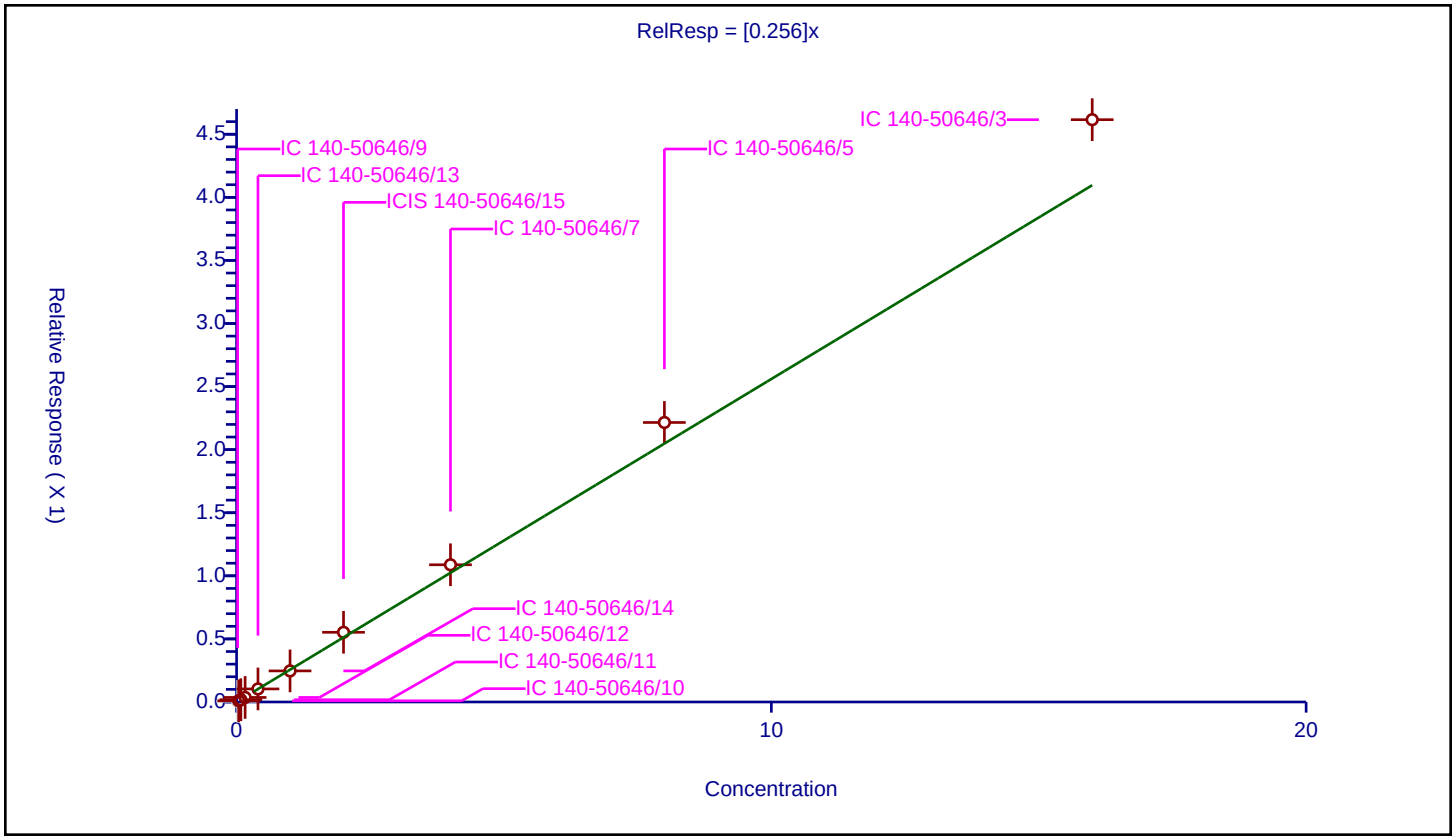
Curve Coefficients

Intercept:	0
Slope:	0.256

Error Coefficients

Standard Error:	424000
Relative Standard Error:	9.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.005361	4.8	1151515.0	0.26803	N
2	IC 140-50646/10	0.04	0.009401	4.8	1068658.0	0.235024	Y
3	IC 140-50646/11	0.08	0.017992	4.8	1019100.0	0.224904	Y
4	IC 140-50646/12	0.16	0.036091	4.8	1000141.0	0.225568	Y
5	IC 140-50646/13	0.4	0.103463	4.8	1039626.0	0.258658	Y
6	IC 140-50646/14	1.0	0.246304	4.8	1057775.0	0.246304	Y
7	ICIS 140-50646/15	2.0	0.552353	4.8	1091989.0	0.276176	Y
8	IC 140-50646/7	4.0	1.087619	4.8	1213744.0	0.271905	Y
9	IC 140-50646/5	8.0	2.215318	4.8	1188188.0	0.276915	Y
10	IC 140-50646/3	16.0	4.61545	4.8	1062554.0	0.288466	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

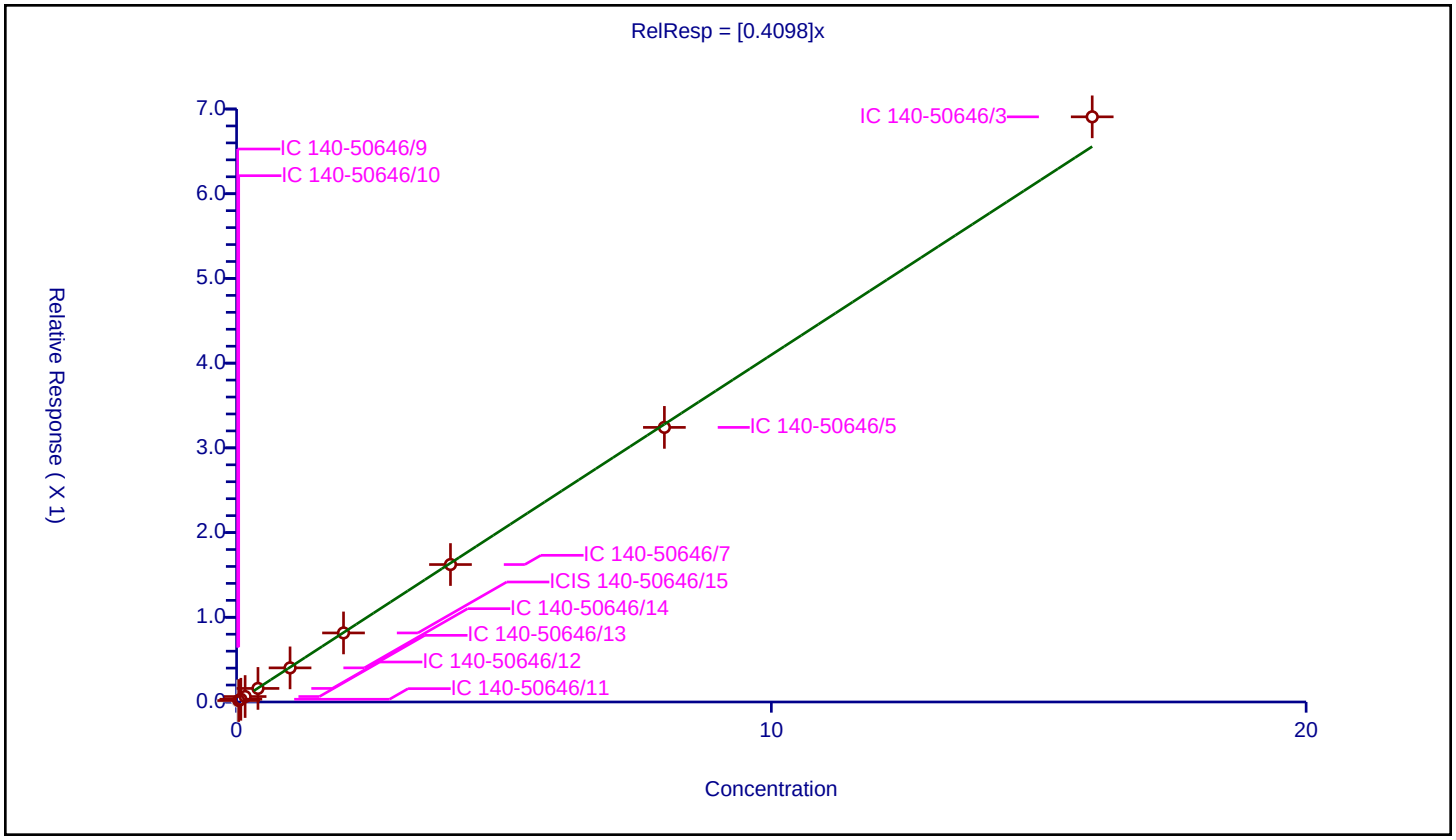
Curve Coefficients

Intercept:	0
Slope:	0.4098

Error Coefficients

Standard Error:	632000
Relative Standard Error:	2.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.01153	4.8	1151515.0	0.576493	N
2	IC 140-50646/10	0.04	0.017189	4.8	1068658.0	0.429735	Y
3	IC 140-50646/11	0.08	0.032193	4.8	1019100.0	0.402414	Y
4	IC 140-50646/12	0.16	0.064469	4.8	1000141.0	0.402933	Y
5	IC 140-50646/13	0.4	0.160193	4.8	1039626.0	0.400482	Y
6	IC 140-50646/14	1.0	0.40275	4.8	1057775.0	0.40275	Y
7	ICIS 140-50646/15	2.0	0.815054	4.8	1091989.0	0.407527	Y
8	IC 140-50646/7	4.0	1.622624	4.8	1213744.0	0.405656	Y
9	IC 140-50646/5	8.0	3.241705	4.8	1188188.0	0.405213	Y
10	IC 140-50646/3	16.0	6.907628	4.8	1062554.0	0.431727	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

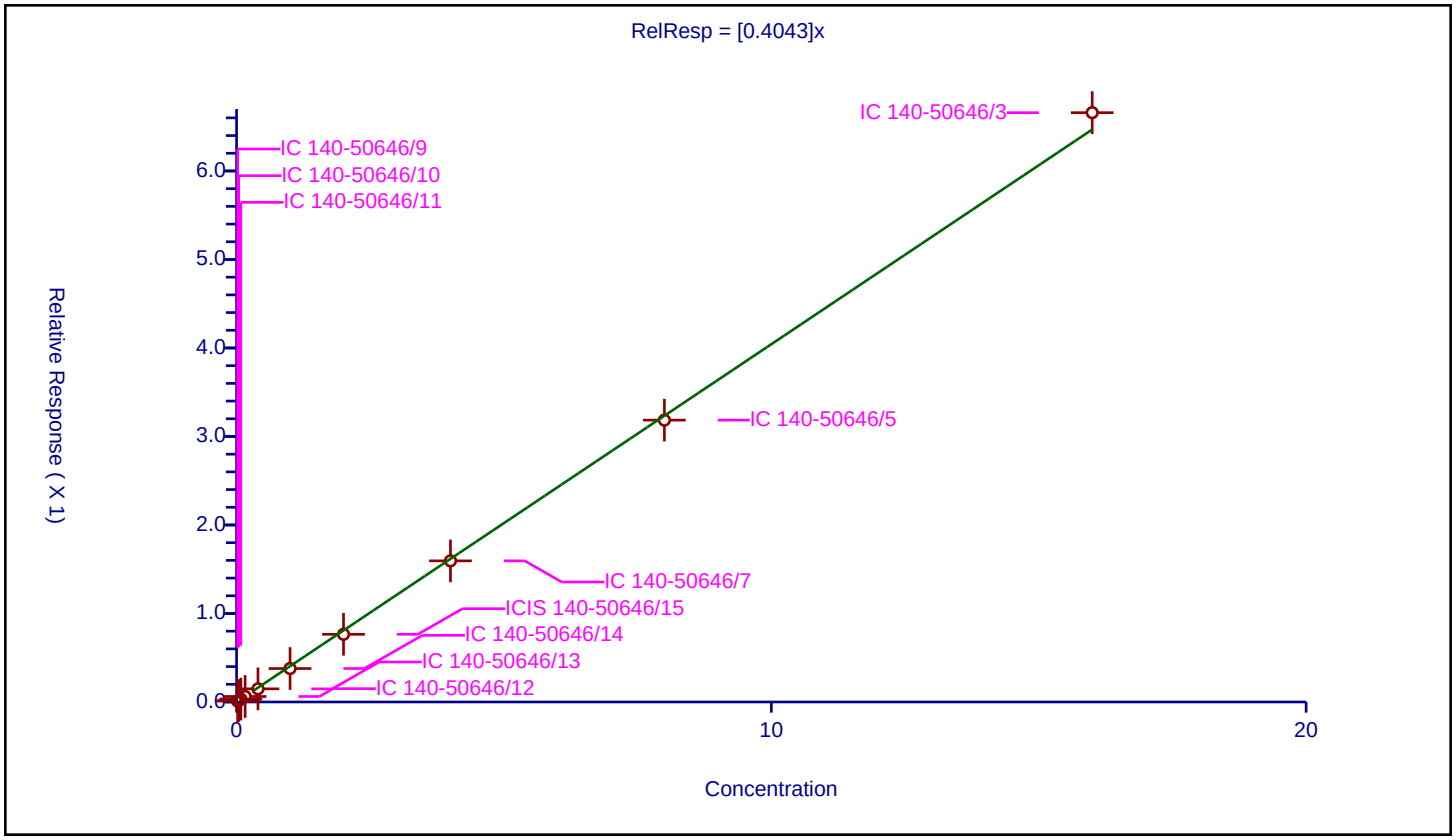
Curve Coefficients

Intercept:	0
Slope:	0.4043

Error Coefficients

Standard Error:	577000
Relative Standard Error:	8.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.009887	4.8	1151515.0	0.494375	Y
2	IC 140-50646/10	0.04	0.016183	4.8	1068658.0	0.404582	Y
3	IC 140-50646/11	0.08	0.03282	4.8	1019100.0	0.410244	Y
4	IC 140-50646/12	0.16	0.062266	4.8	1000141.0	0.389165	Y
5	IC 140-50646/13	0.4	0.148286	4.8	1039626.0	0.370714	Y
6	IC 140-50646/14	1.0	0.378092	4.8	1057775.0	0.378092	Y
7	ICIS 140-50646/15	2.0	0.764997	4.8	1091989.0	0.382498	Y
8	IC 140-50646/7	4.0	1.594727	4.8	1213744.0	0.398682	Y
9	IC 140-50646/5	8.0	3.184676	4.8	1188188.0	0.398084	Y
10	IC 140-50646/3	16.0	6.65861	4.8	1062554.0	0.416163	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

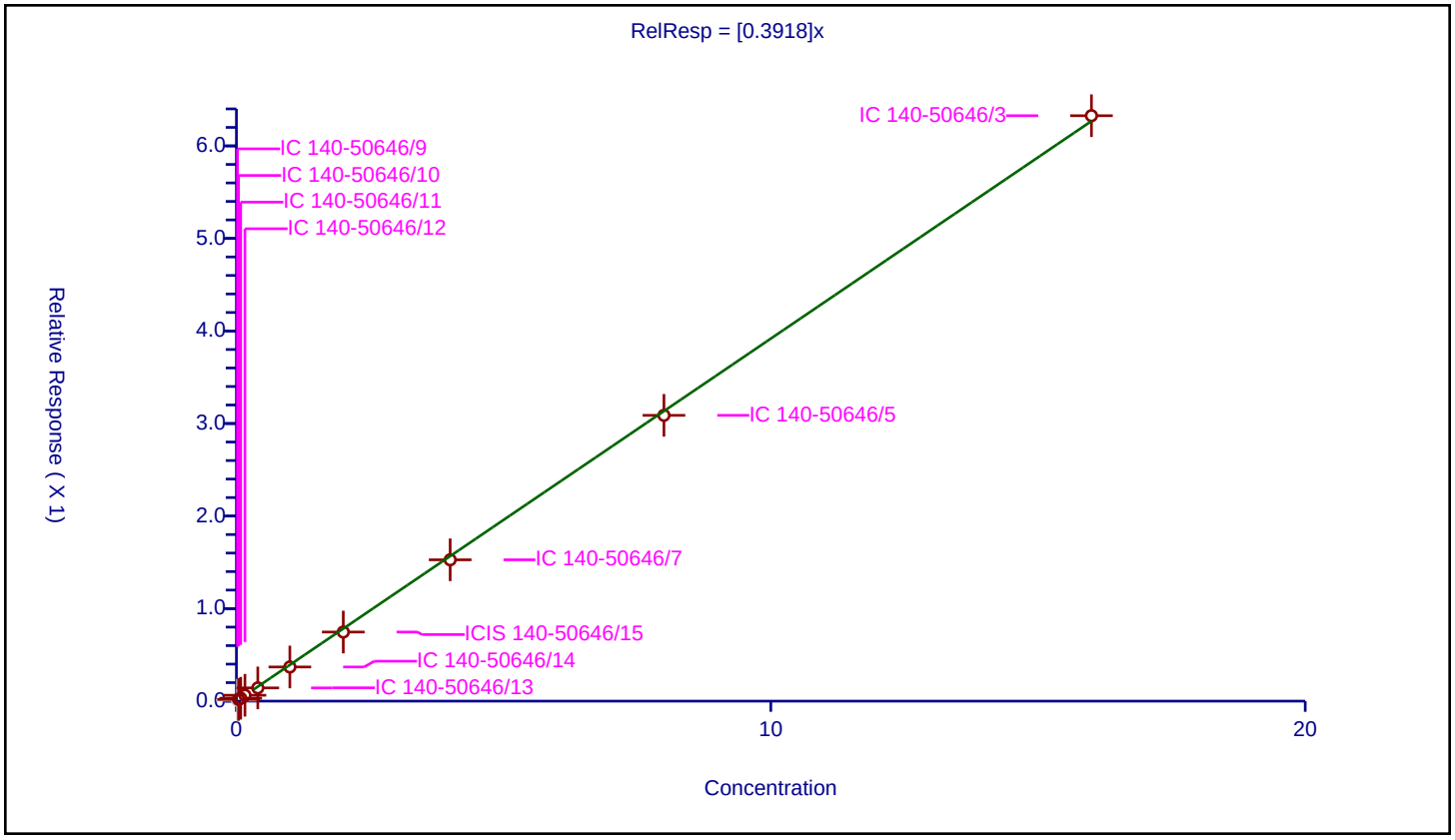
Curve Coefficients

Intercept:	0
Slope:	0.3918

Error Coefficients

Standard Error:	584000
Relative Standard Error:	8.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.010796	4.8	1151515.0	0.539811	N
2	IC 140-50646/10	0.04	0.01877	4.8	1068658.0	0.469261	Y
3	IC 140-50646/11	0.08	0.031538	4.8	1019100.0	0.39423	Y
4	IC 140-50646/12	0.16	0.06386	4.8	1000141.0	0.399124	Y
5	IC 140-50646/13	0.4	0.143008	4.8	1039626.0	0.357521	Y
6	IC 140-50646/14	1.0	0.369098	4.8	1057775.0	0.369098	Y
7	ICIS 140-50646/15	2.0	0.746649	4.8	1091989.0	0.373325	Y
8	IC 140-50646/7	4.0	1.527169	4.8	1213744.0	0.381792	Y
9	IC 140-50646/5	8.0	3.088428	4.8	1188188.0	0.386054	Y
10	IC 140-50646/3	16.0	6.326408	4.8	1062554.0	0.395401	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

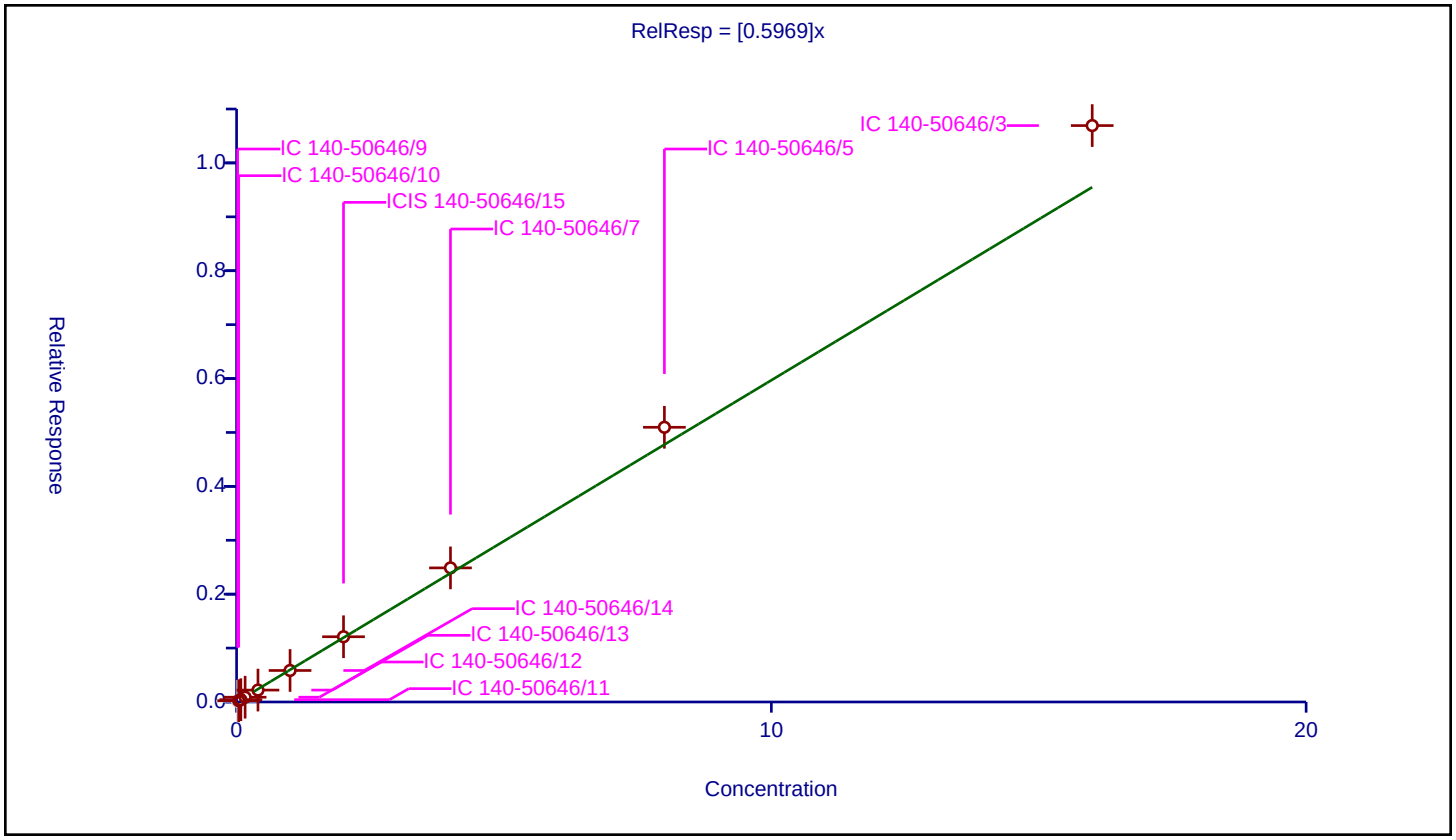
Curve Coefficients

Intercept:	0
Slope:	0.5969

Error Coefficients

Standard Error:	980000
Relative Standard Error:	7.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.014506	4.8	1151515.0	0.725305	N
2	IC 140-50646/10	0.04	0.024488	4.8	1068658.0	0.612207	Y
3	IC 140-50646/11	0.08	0.042833	4.8	1019100.0	0.535414	Y
4	IC 140-50646/12	0.16	0.088883	4.8	1000141.0	0.555522	Y
5	IC 140-50646/13	0.4	0.220755	4.8	1039626.0	0.551887	Y
6	IC 140-50646/14	1.0	0.584522	4.8	1057775.0	0.584522	Y
7	ICIS 140-50646/15	2.0	1.209999	4.8	1091989.0	0.605	Y
8	IC 140-50646/7	4.0	2.487581	4.8	1213744.0	0.621895	Y
9	IC 140-50646/5	8.0	5.095723	4.8	1188188.0	0.636965	Y
10	IC 140-50646/3	16.0	10.692777	4.8	1062554.0	0.668299	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

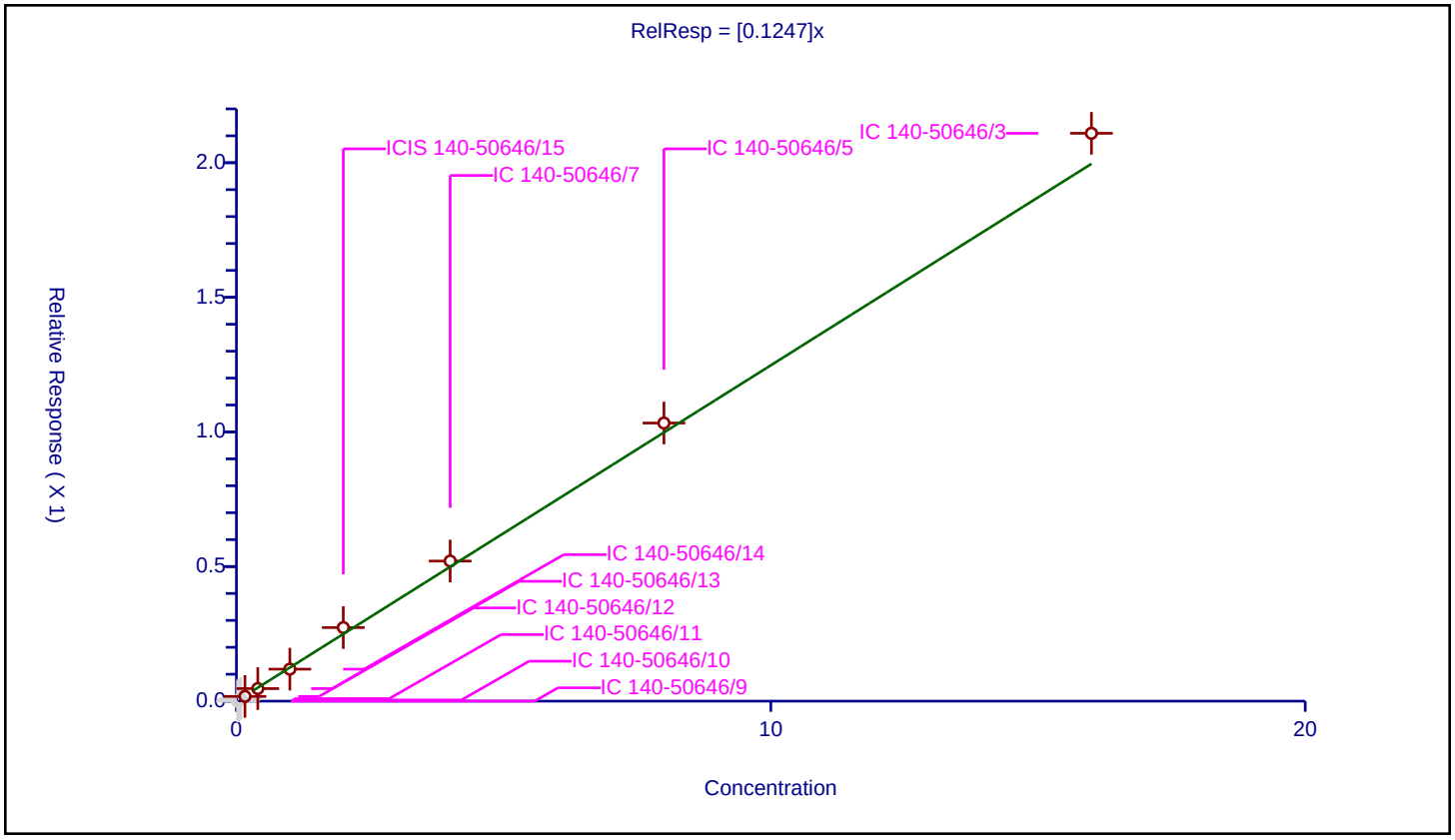
Curve Coefficients

Intercept:	0
Slope:	0.1247

Error Coefficients

Standard Error:	226000
Relative Standard Error:	7.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.0	4.8	1151515.0	0.0	N
2	IC 140-50646/10	0.04	0.004298	4.8	1068658.0	0.107462	N
3	IC 140-50646/11	0.08	0.009354	4.8	1019100.0	0.116927	N
4	IC 140-50646/12	0.16	0.017633	4.8	1000141.0	0.110204	Y
5	IC 140-50646/13	0.4	0.0466	4.8	1039626.0	0.1165	Y
6	IC 140-50646/14	1.0	0.118841	4.8	1057775.0	0.118841	Y
7	ICIS 140-50646/15	2.0	0.273291	4.8	1091989.0	0.136645	Y
8	IC 140-50646/7	4.0	0.52036	4.8	1213744.0	0.13009	Y
9	IC 140-50646/5	8.0	1.033028	4.8	1188188.0	0.129129	Y
10	IC 140-50646/3	16.0	2.109336	4.8	1062554.0	0.131833	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

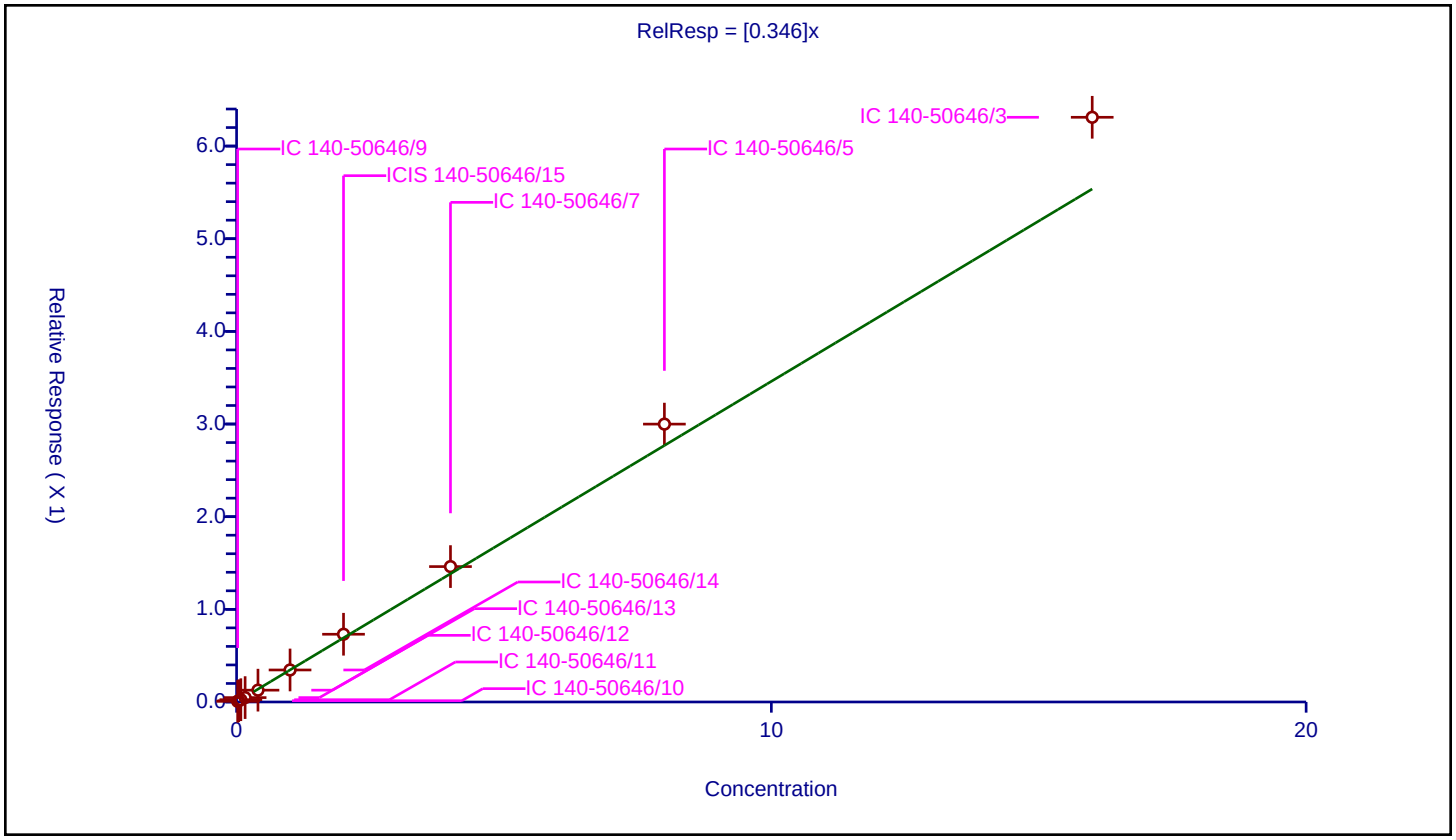
Curve Coefficients

Intercept:	0
Slope:	0.346

Error Coefficients

Standard Error:	545000
Relative Standard Error:	9.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.007045	4.8	1151515.0	0.352232	Y
2	IC 140-50646/10	0.04	0.013646	4.8	1068658.0	0.341138	Y
3	IC 140-50646/11	0.08	0.024487	4.8	1019100.0	0.306094	Y
4	IC 140-50646/12	0.16	0.047341	4.8	1000141.0	0.295878	Y
5	IC 140-50646/13	0.4	0.127703	4.8	1039626.0	0.319257	Y
6	IC 140-50646/14	1.0	0.345592	4.8	1057775.0	0.345592	Y
7	ICIS 140-50646/15	2.0	0.731308	4.8	1091989.0	0.365654	Y
8	IC 140-50646/7	4.0	1.46124	4.8	1213744.0	0.36531	Y
9	IC 140-50646/5	8.0	2.999287	4.8	1188188.0	0.374911	Y
10	IC 140-50646/3	16.0	6.310904	4.8	1062554.0	0.394432	Y



Calibration / Methylcyclohexane

Curve Type:	Linear
Weighting:	None
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

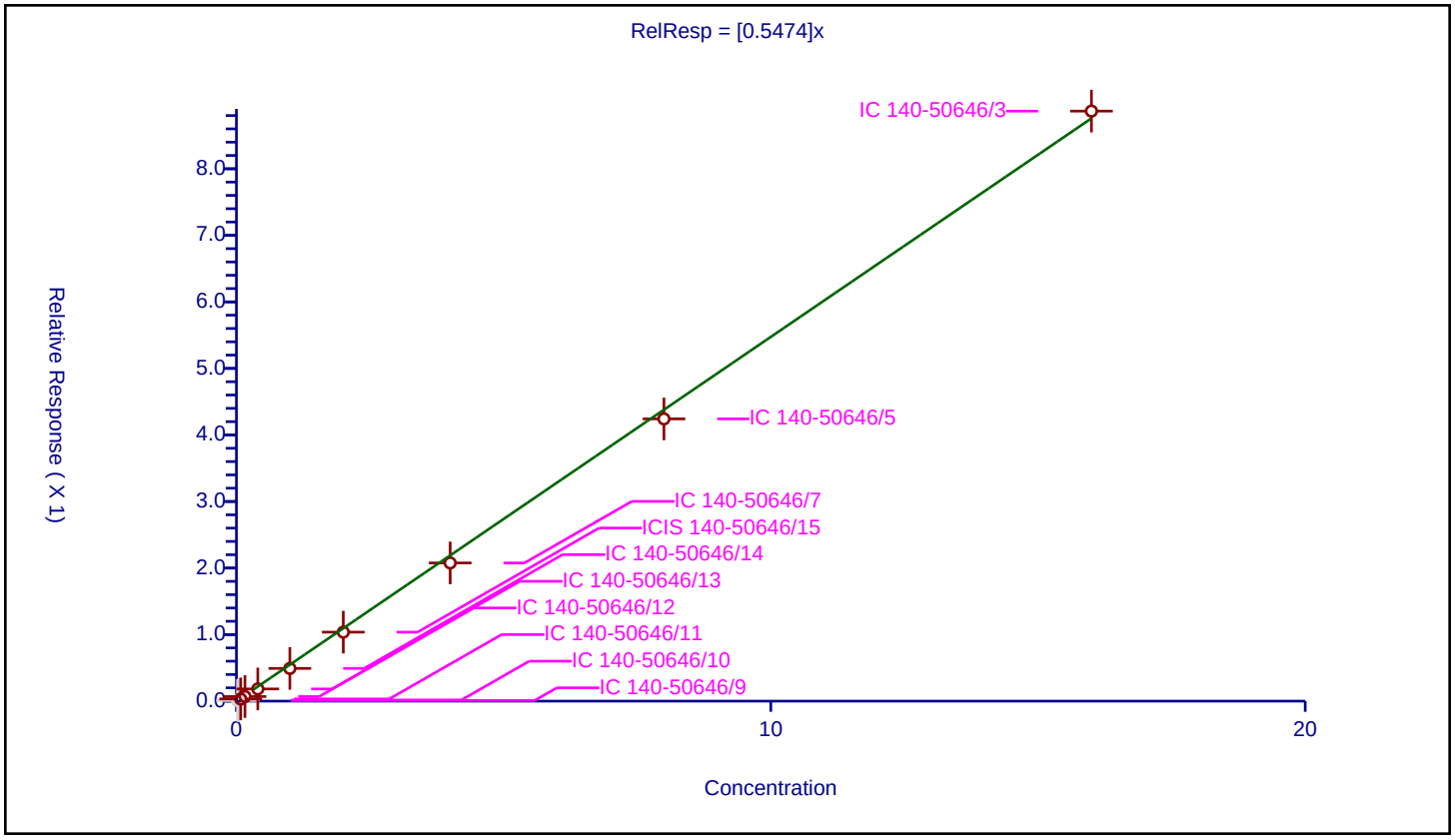
Curve Coefficients

Intercept:	0
Slope:	0.5474

Error Coefficients

Standard Error:	870000
Relative Standard Error:	14.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.009671	4.8	1151515.0	0.483537	N
2	IC 140-50646/10	0.04	0.017113	4.8	1068658.0	0.427826	N
3	IC 140-50646/11	0.08	0.032824	4.8	1019100.0	0.410303	Y
4	IC 140-50646/12	0.16	0.068995	4.8	1000141.0	0.431219	Y
5	IC 140-50646/13	0.4	0.182913	4.8	1039626.0	0.457284	Y
6	IC 140-50646/14	1.0	0.491646	4.8	1057775.0	0.491646	Y
7	ICIS 140-50646/15	2.0	1.036999	4.8	1091989.0	0.5185	Y
8	IC 140-50646/7	4.0	2.076699	4.8	1213744.0	0.519175	Y
9	IC 140-50646/5	8.0	4.241632	4.8	1188188.0	0.530204	Y
10	IC 140-50646/3	16.0	8.866701	4.8	1062554.0	0.554169	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

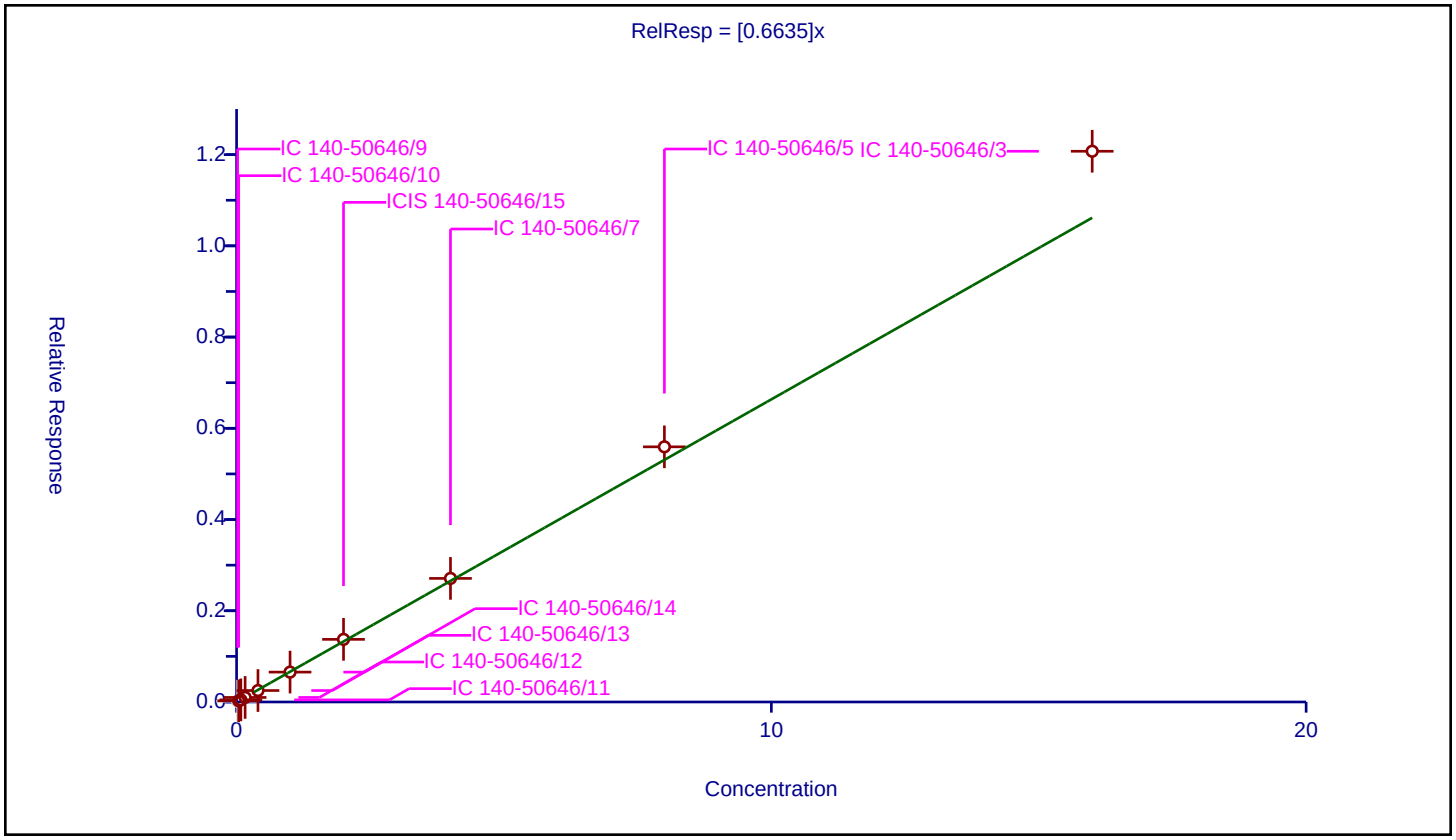
Curve Coefficients

Intercept:	0
Slope:	0.6635

Error Coefficients

Standard Error:	1100000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.016899	4.8	1151515.0	0.844939	N
2	IC 140-50646/10	0.04	0.026635	4.8	1068658.0	0.665882	Y
3	IC 140-50646/11	0.08	0.046592	4.8	1019100.0	0.582396	Y
4	IC 140-50646/12	0.16	0.099648	4.8	1000141.0	0.622802	Y
5	IC 140-50646/13	0.4	0.250987	4.8	1039626.0	0.627468	Y
6	IC 140-50646/14	1.0	0.654967	4.8	1057775.0	0.654967	Y
7	ICIS 140-50646/15	2.0	1.372875	4.8	1091989.0	0.686438	Y
8	IC 140-50646/7	4.0	2.709527	4.8	1213744.0	0.677382	Y
9	IC 140-50646/5	8.0	5.593798	4.8	1188188.0	0.699225	Y
10	IC 140-50646/3	16.0	12.07381	4.8	1062554.0	0.754613	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

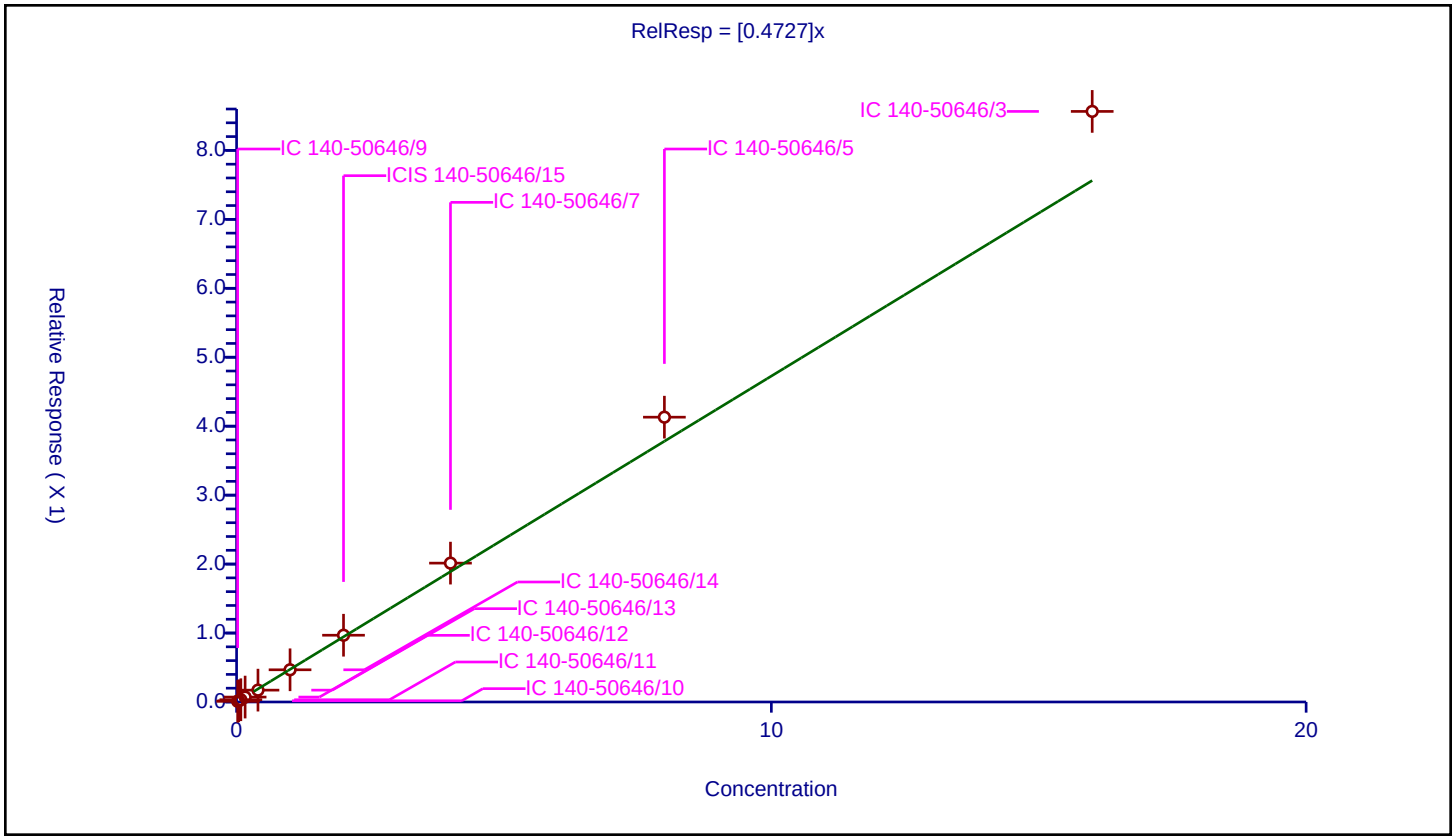
Curve Coefficients

Intercept:	0
Slope:	0.4727

Error Coefficients

Standard Error:	742000
Relative Standard Error:	8.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.009858	4.8	1151515.0	0.492916	Y
2	IC 140-50646/10	0.04	0.017778	4.8	1068658.0	0.444445	Y
3	IC 140-50646/11	0.08	0.032546	4.8	1019100.0	0.40683	Y
4	IC 140-50646/12	0.16	0.07138	4.8	1000141.0	0.446127	Y
5	IC 140-50646/13	0.4	0.172013	4.8	1039626.0	0.430032	Y
6	IC 140-50646/14	1.0	0.467051	4.8	1057775.0	0.467051	Y
7	ICIS 140-50646/15	2.0	0.968076	4.8	1091989.0	0.484038	Y
8	IC 140-50646/7	4.0	2.013965	4.8	1213744.0	0.503491	Y
9	IC 140-50646/5	8.0	4.130817	4.8	1188188.0	0.516352	Y
10	IC 140-50646/3	16.0	8.565349	4.8	1062554.0	0.535334	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

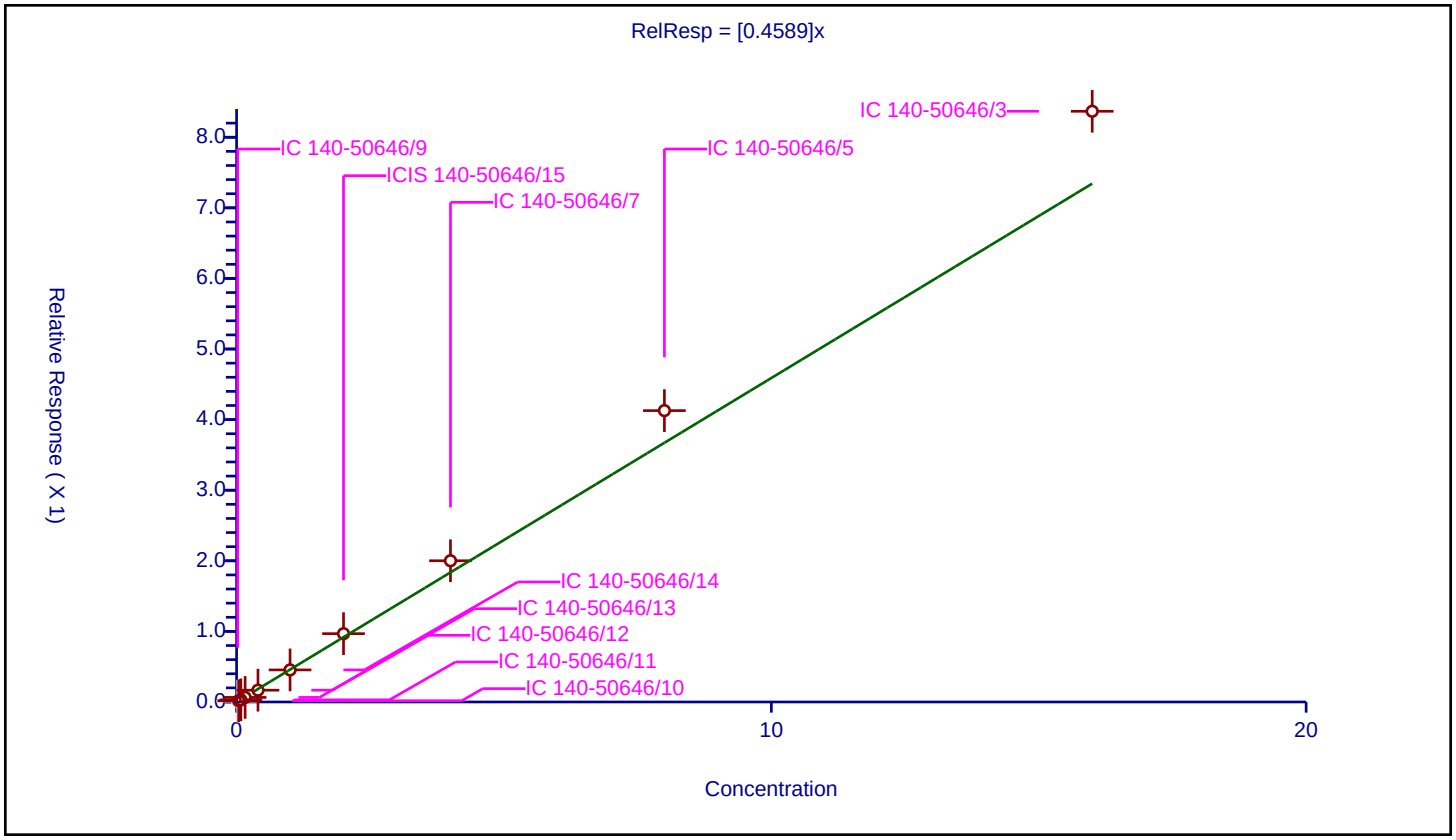
Curve Coefficients

Intercept:	0
Slope:	0.4589

Error Coefficients

Standard Error:	694000
Relative Standard Error:	11.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.011422	4.8	959848.0	0.57109	N
2	IC 140-50646/10	0.04	0.017879	4.8	904221.0	0.44697	Y
3	IC 140-50646/11	0.08	0.03057	4.8	857465.0	0.382126	Y
4	IC 140-50646/12	0.16	0.064931	4.8	847616.0	0.405821	Y
5	IC 140-50646/13	0.4	0.167309	4.8	885413.0	0.418273	Y
6	IC 140-50646/14	1.0	0.45415	4.8	894154.0	0.45415	Y
7	ICIS 140-50646/15	2.0	0.96797	4.8	934893.0	0.483985	Y
8	IC 140-50646/7	4.0	2.000622	4.8	1060151.0	0.500156	Y
9	IC 140-50646/5	8.0	4.127561	4.8	1052212.0	0.515945	Y
10	IC 140-50646/3	16.0	8.368004	4.8	959637.0	0.523	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

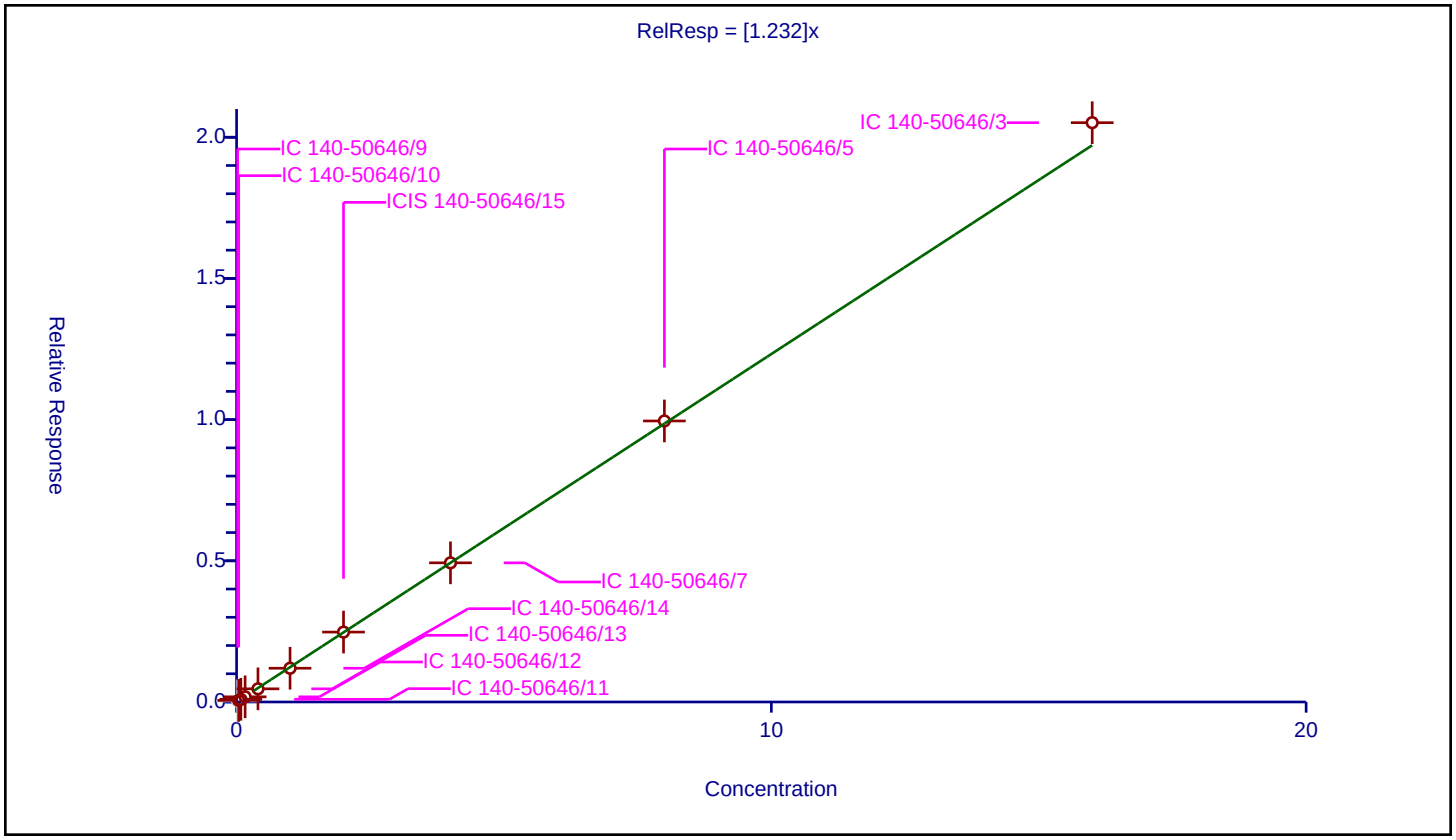
Curve Coefficients

Intercept:	0
Slope:	1.232

Error Coefficients

Standard Error:	1700000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.037591	4.8	959848.0	1.879548	N
2	IC 140-50646/10	0.04	0.056036	4.8	904221.0	1.400896	Y
3	IC 140-50646/11	0.08	0.095181	4.8	857465.0	1.189763	Y
4	IC 140-50646/12	0.16	0.182913	4.8	847616.0	1.143206	Y
5	IC 140-50646/13	0.4	0.465963	4.8	885413.0	1.164907	Y
6	IC 140-50646/14	1.0	1.195252	4.8	894154.0	1.195252	Y
7	ICIS 140-50646/15	2.0	2.475286	4.8	934893.0	1.237643	Y
8	IC 140-50646/7	4.0	4.928518	4.8	1060151.0	1.232129	Y
9	IC 140-50646/5	8.0	9.952451	4.8	1052212.0	1.244056	Y
10	IC 140-50646/3	16.0	20.516753	4.8	959637.0	1.282297	Y



Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

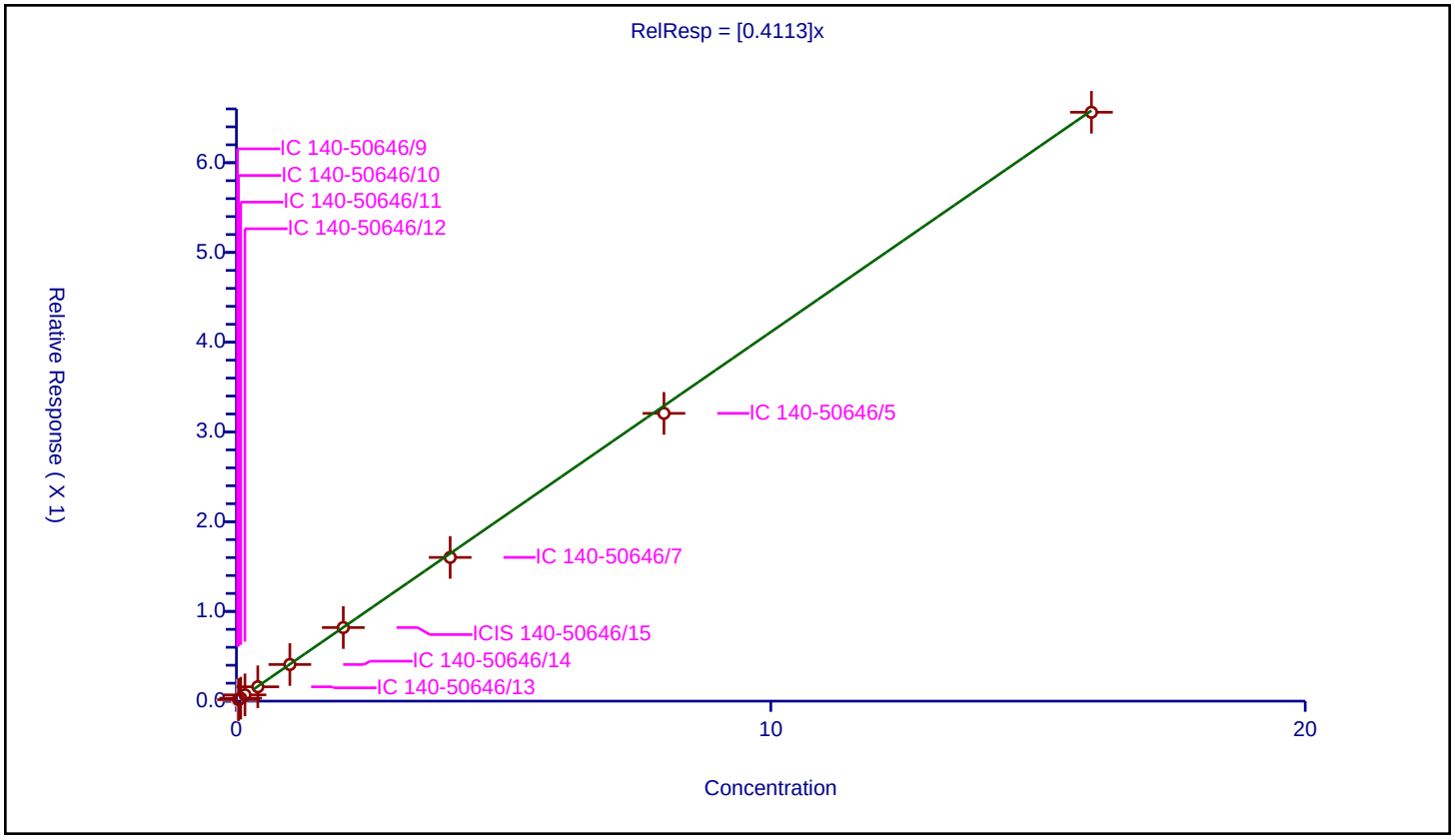
Curve Coefficients

Intercept:	0
Slope:	0.4113

Error Coefficients

Standard Error:	545000
Relative Standard Error:	2.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.010557	4.8	959848.0	0.527834	N
2	IC 140-50646/10	0.04	0.016976	4.8	904221.0	0.42441	Y
3	IC 140-50646/11	0.08	0.032988	4.8	857465.0	0.412355	Y
4	IC 140-50646/12	0.16	0.06979	4.8	847616.0	0.436188	Y
5	IC 140-50646/13	0.4	0.159768	4.8	885413.0	0.39942	Y
6	IC 140-50646/14	1.0	0.408204	4.8	894154.0	0.408204	Y
7	ICIS 140-50646/15	2.0	0.819795	4.8	934893.0	0.409898	Y
8	IC 140-50646/7	4.0	1.601758	4.8	1060151.0	0.40044	Y
9	IC 140-50646/5	8.0	3.207164	4.8	1052212.0	0.400895	Y
10	IC 140-50646/3	16.0	6.562566	4.8	959637.0	0.41016	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

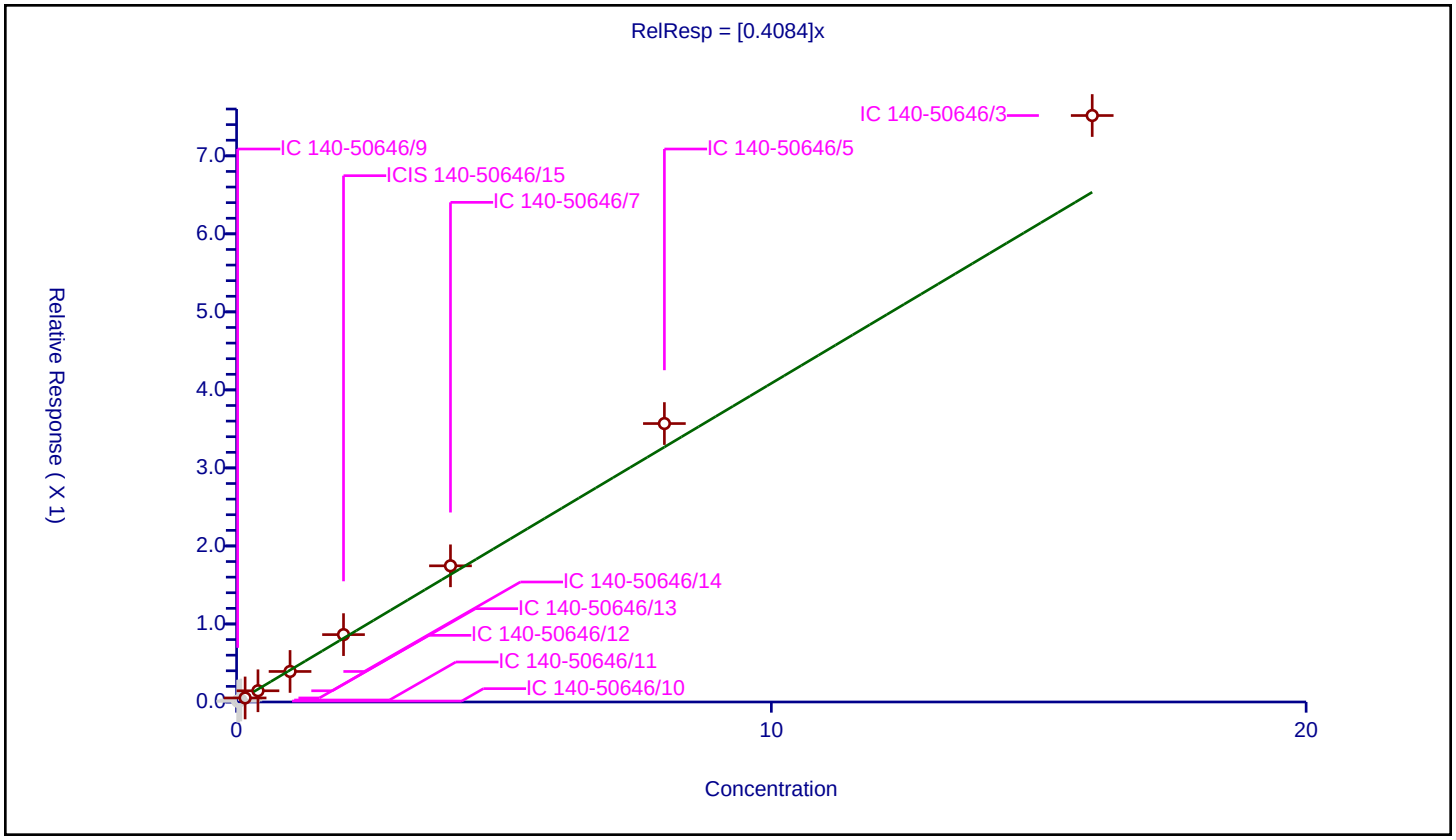
Curve Coefficients

Intercept:	0
Slope:	0.4084

Error Coefficients

Standard Error:	713000
Relative Standard Error:	12.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.010722	4.8	959848.0	0.536085	N
2	IC 140-50646/10	0.04	0.012034	4.8	904221.0	0.300856	N
3	IC 140-50646/11	0.08	0.025336	4.8	857465.0	0.316701	N
4	IC 140-50646/12	0.16	0.051884	4.8	847616.0	0.324274	Y
5	IC 140-50646/13	0.4	0.143721	4.8	885413.0	0.359304	Y
6	IC 140-50646/14	1.0	0.391181	4.8	894154.0	0.391181	Y
7	ICIS 140-50646/15	2.0	0.863483	4.8	934893.0	0.431741	Y
8	IC 140-50646/7	4.0	1.745421	4.8	1060151.0	0.436355	Y
9	IC 140-50646/5	8.0	3.568701	4.8	1052212.0	0.446088	Y
10	IC 140-50646/3	16.0	7.516557	4.8	959637.0	0.469785	Y



Calibration / n-Octane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

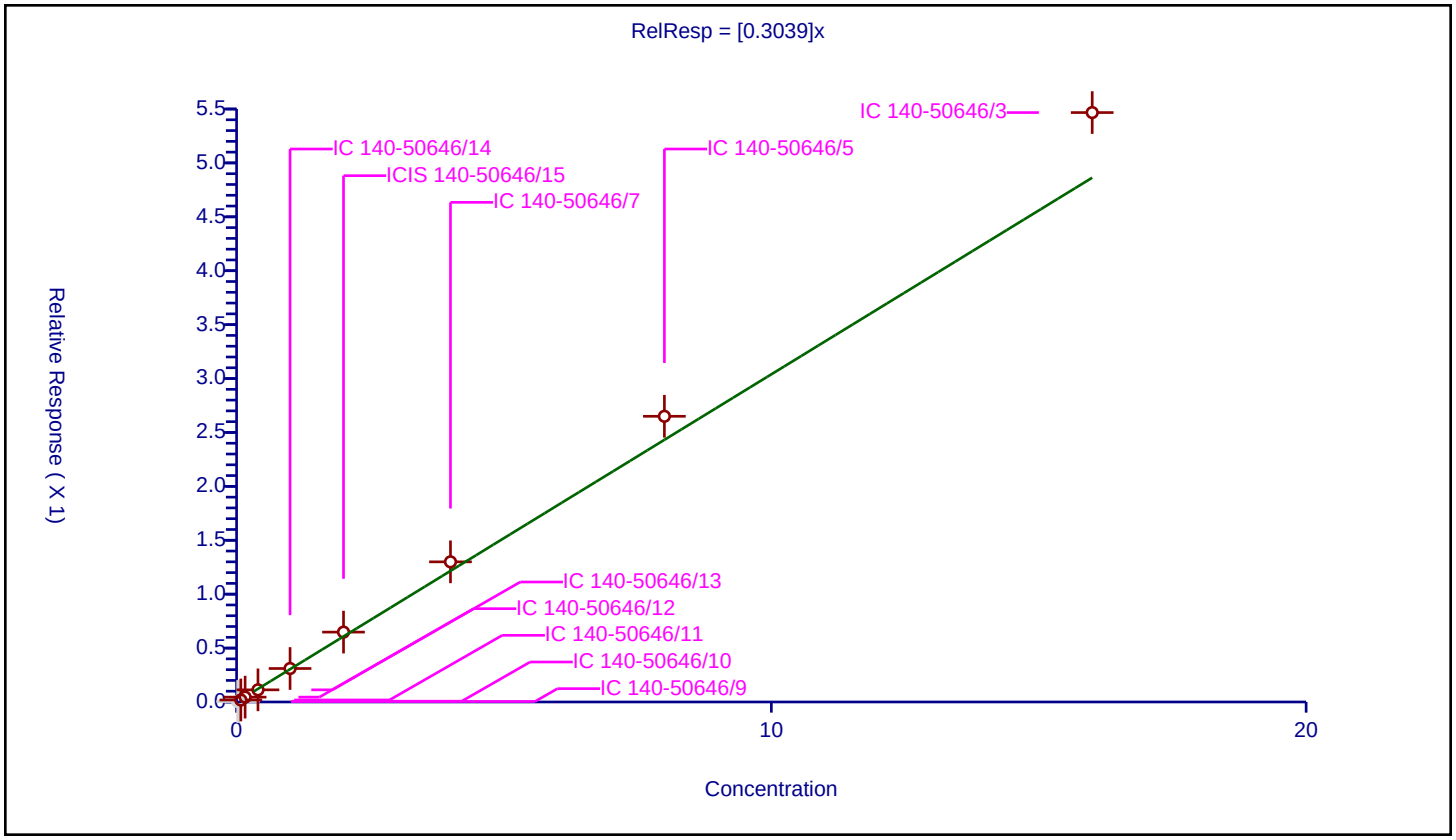
Curve Coefficients

Intercept:	0
Slope:	0.3039

Error Coefficients

Standard Error:	483000
Relative Standard Error:	11.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.004606	4.8	959848.0	0.230286	N
2	IC 140-50646/10	0.04	0.0074	4.8	904221.0	0.184999	N
3	IC 140-50646/11	0.08	0.018781	4.8	857465.0	0.234762	Y
4	IC 140-50646/12	0.16	0.045173	4.8	847616.0	0.282333	Y
5	IC 140-50646/13	0.4	0.112712	4.8	885413.0	0.28178	Y
6	IC 140-50646/14	1.0	0.310529	4.8	894154.0	0.310529	Y
7	ICIS 140-50646/15	2.0	0.648203	4.8	934893.0	0.324101	Y
8	IC 140-50646/7	4.0	1.29989	4.8	1060151.0	0.324973	Y
9	IC 140-50646/5	8.0	2.649997	4.8	1052212.0	0.33125	Y
10	IC 140-50646/3	16.0	5.467222	4.8	959637.0	0.341701	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

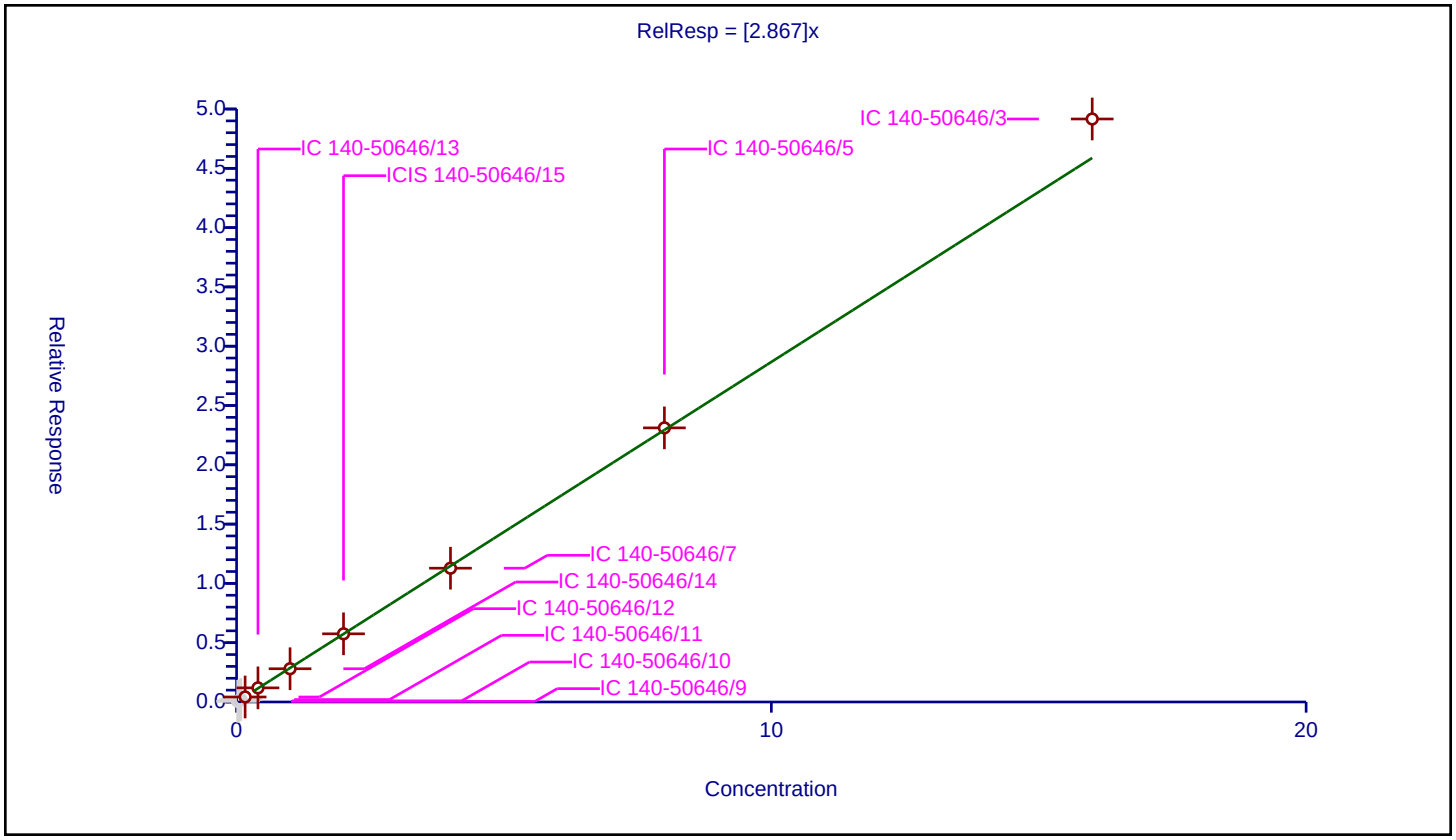
Curve Coefficients

Intercept:	0
Slope:	2.867

Error Coefficients

Standard Error:	5190000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.054119	4.8	1151515.0	2.705931	N
2	IC 140-50646/10	0.04	0.096821	4.8	1068658.0	2.420531	N
3	IC 140-50646/11	0.08	0.206479	4.8	1019100.0	2.580983	N
4	IC 140-50646/12	0.16	0.421789	4.8	1000141.0	2.636178	Y
5	IC 140-50646/13	0.4	1.190524	4.8	1039626.0	2.976309	Y
6	IC 140-50646/14	1.0	2.801791	4.8	1057775.0	2.801791	Y
7	ICIS 140-50646/15	2.0	5.747869	4.8	1091989.0	2.873934	Y
8	IC 140-50646/7	4.0	11.281129	4.8	1213744.0	2.820282	Y
9	IC 140-50646/5	8.0	23.113534	4.8	1188188.0	2.889192	Y
10	IC 140-50646/3	16.0	49.15986	4.8	1062554.0	3.072491	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

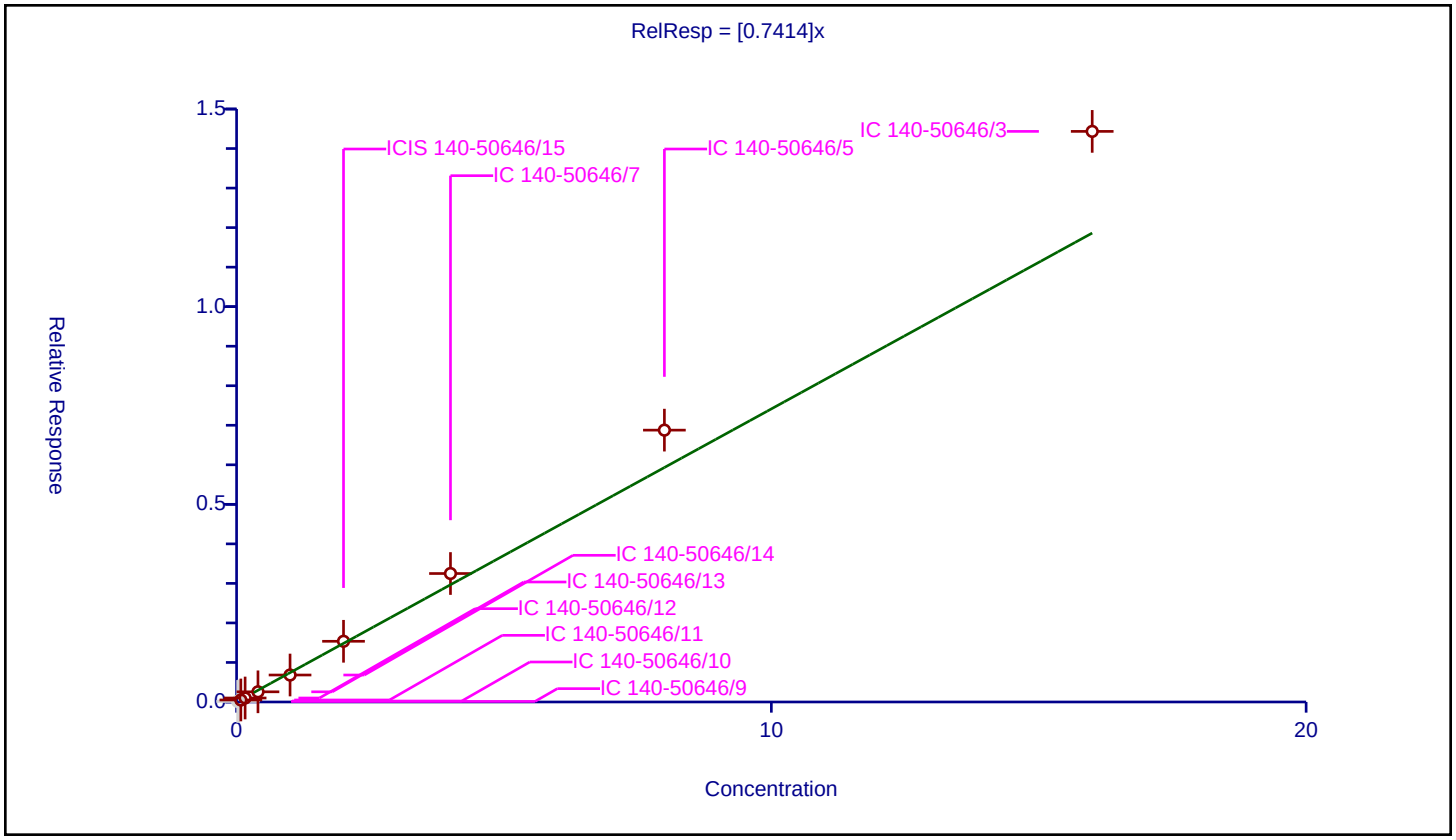
Curve Coefficients

Intercept:	0
Slope:	0.7414

Error Coefficients

Standard Error:	1270000
Relative Standard Error:	14.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.014272	4.8	959848.0	0.713613	N
2	IC 140-50646/10	0.04	0.024371	4.8	904221.0	0.609276	N
3	IC 140-50646/11	0.08	0.050807	4.8	857465.0	0.635081	Y
4	IC 140-50646/12	0.16	0.100546	4.8	847616.0	0.62841	Y
5	IC 140-50646/13	0.4	0.25735	4.8	885413.0	0.643374	Y
6	IC 140-50646/14	1.0	0.682111	4.8	894154.0	0.682111	Y
7	ICIS 140-50646/15	2.0	1.535806	4.8	934893.0	0.767903	Y
8	IC 140-50646/7	4.0	3.249889	4.8	1060151.0	0.812472	Y
9	IC 140-50646/5	8.0	6.876791	4.8	1052212.0	0.859599	Y
10	IC 140-50646/3	16.0	14.433853	4.8	959637.0	0.902116	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

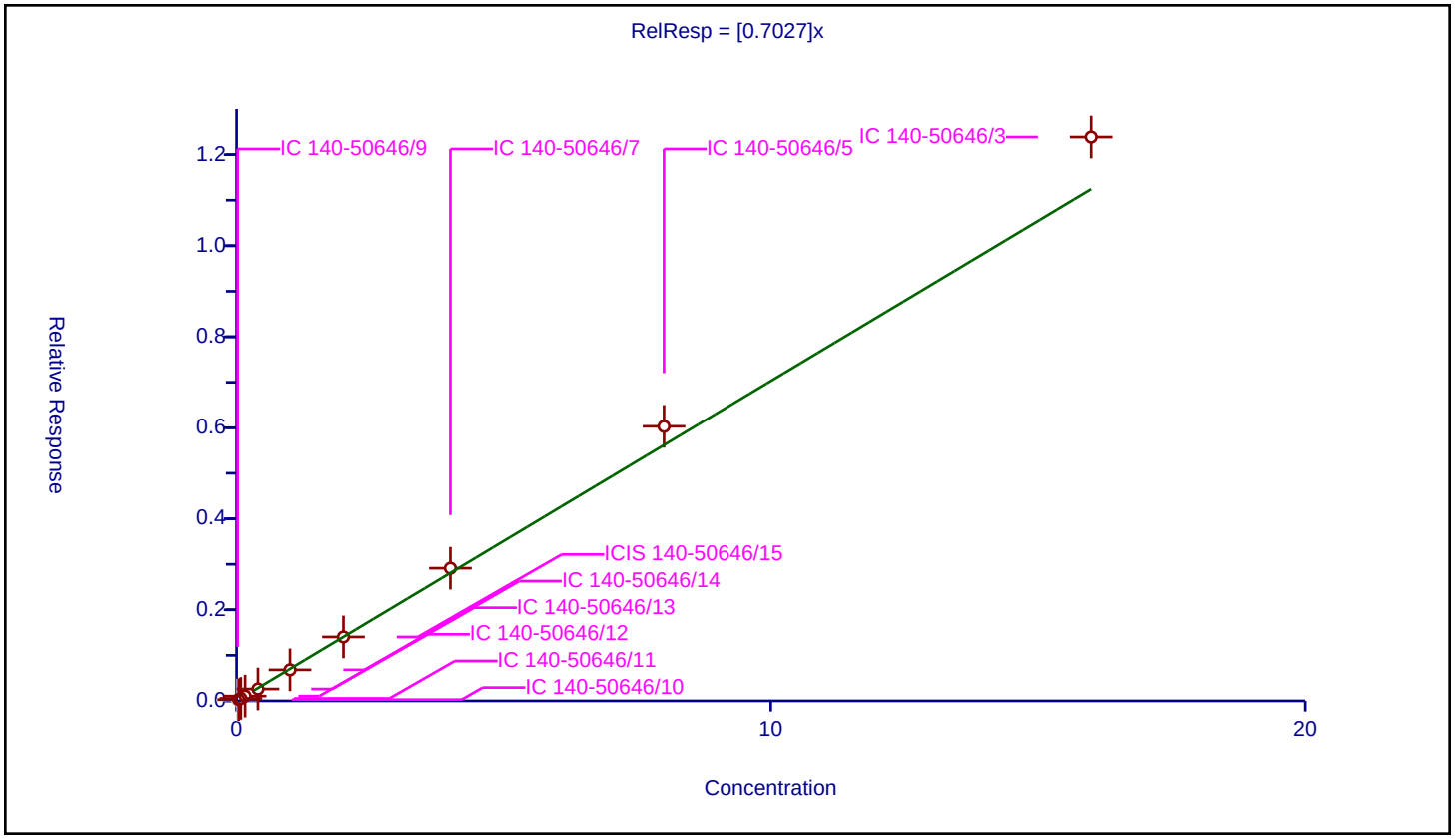
Curve Coefficients

Intercept:	0
Slope:	0.7027

Error Coefficients

Standard Error:	1020000
Relative Standard Error:	5.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.018913	4.8	959848.0	0.94565	N
2	IC 140-50646/10	0.04	0.027779	4.8	904221.0	0.694476	Y
3	IC 140-50646/11	0.08	0.054154	4.8	857465.0	0.676926	Y
4	IC 140-50646/12	0.16	0.105659	4.8	847616.0	0.66037	Y
5	IC 140-50646/13	0.4	0.260998	4.8	885413.0	0.652496	Y
6	IC 140-50646/14	1.0	0.681472	4.8	894154.0	0.681472	Y
7	ICIS 140-50646/15	2.0	1.40422	4.8	934893.0	0.70211	Y
8	IC 140-50646/7	4.0	2.914041	4.8	1060151.0	0.72851	Y
9	IC 140-50646/5	8.0	6.031394	4.8	1052212.0	0.753924	Y
10	IC 140-50646/3	16.0	12.385698	4.8	959637.0	0.774106	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

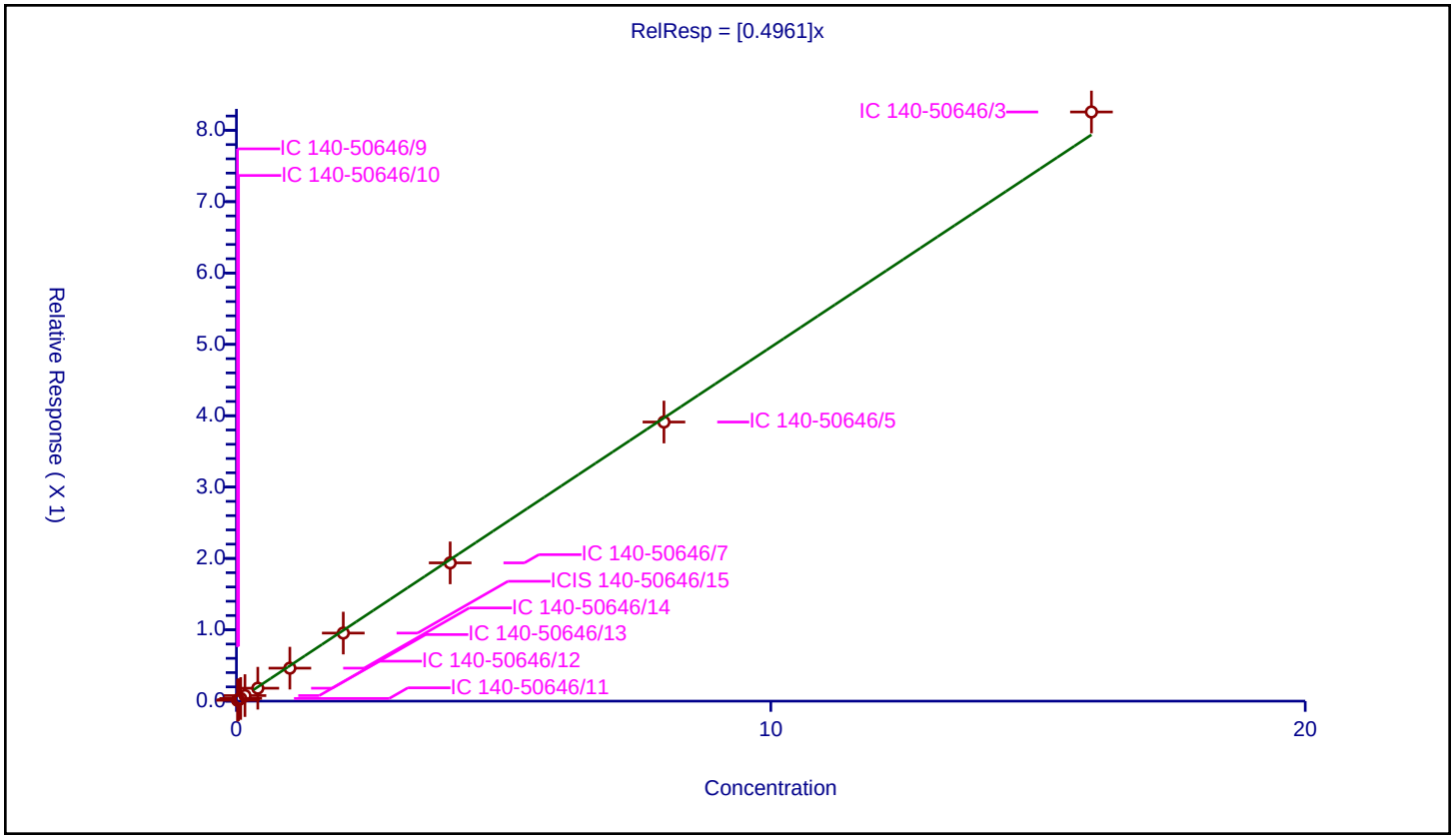
Curve Coefficients

Intercept:	0
Slope:	0.4961

Error Coefficients

Standard Error:	640000
Relative Standard Error:	8.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.012112	4.8	959848.0	0.605596	Y
2	IC 140-50646/10	0.04	0.020814	4.8	904221.0	0.52036	Y
3	IC 140-50646/11	0.08	0.037439	4.8	857465.0	0.467984	Y
4	IC 140-50646/12	0.16	0.077713	4.8	847616.0	0.485703	Y
5	IC 140-50646/13	0.4	0.181095	4.8	885413.0	0.452738	Y
6	IC 140-50646/14	1.0	0.462154	4.8	894154.0	0.462154	Y
7	ICIS 140-50646/15	2.0	0.953913	4.8	934893.0	0.476956	Y
8	IC 140-50646/7	4.0	1.937656	4.8	1060151.0	0.484414	Y
9	IC 140-50646/5	8.0	3.911417	4.8	1052212.0	0.488927	Y
10	IC 140-50646/3	16.0	8.256712	4.8	959637.0	0.516045	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

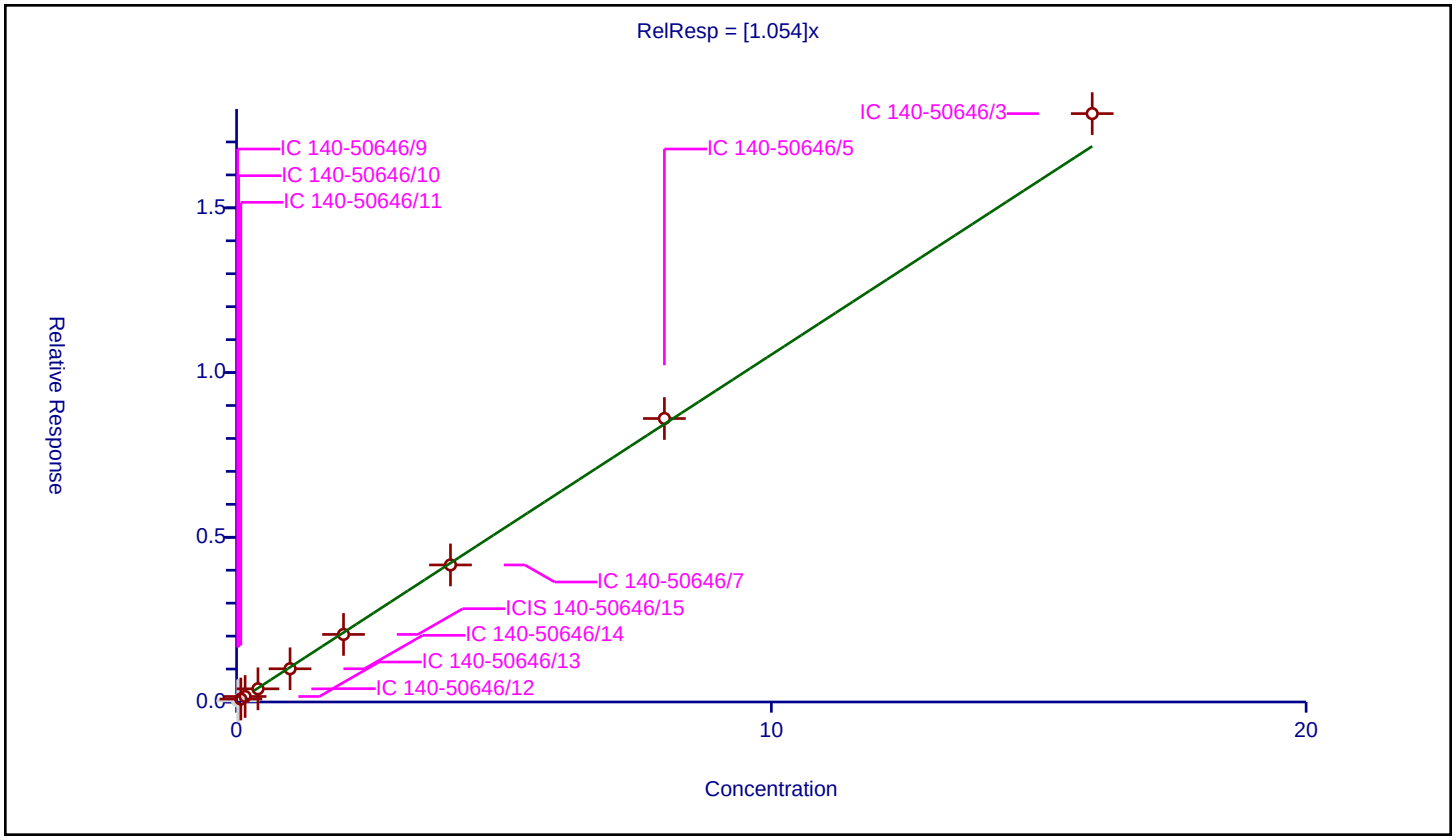
Curve Coefficients

Intercept:	0
Slope:	1.054

Error Coefficients

Standard Error:	1570000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.033755	4.8	959848.0	1.687767	N
2	IC 140-50646/10	0.04	0.050887	4.8	904221.0	1.272167	N
3	IC 140-50646/11	0.08	0.090009	4.8	857465.0	1.125107	Y
4	IC 140-50646/12	0.16	0.167363	4.8	847616.0	1.046016	Y
5	IC 140-50646/13	0.4	0.39919	4.8	885413.0	0.997975	Y
6	IC 140-50646/14	1.0	1.008283	4.8	894154.0	1.008283	Y
7	ICIS 140-50646/15	2.0	2.051046	4.8	934893.0	1.025523	Y
8	IC 140-50646/7	4.0	4.160636	4.8	1060151.0	1.040159	Y
9	IC 140-50646/5	8.0	8.605209	4.8	1052212.0	1.075651	Y
10	IC 140-50646/3	16.0	17.860844	4.8	959637.0	1.116303	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

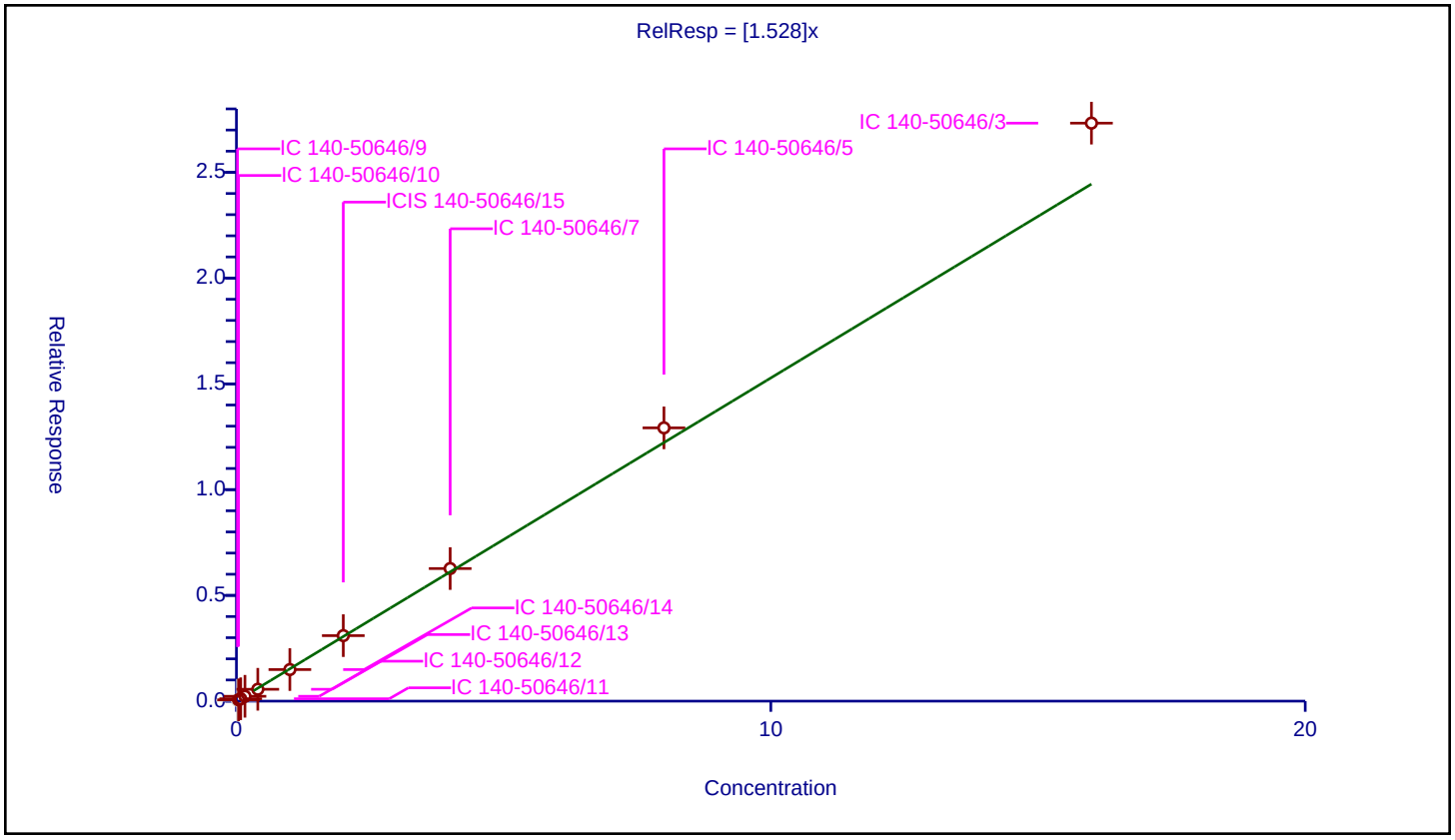
Curve Coefficients

Intercept:	0
Slope:	1.528

Error Coefficients

Standard Error:	2240000
Relative Standard Error:	6.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.041011	4.8	959848.0	2.050575	N
2	IC 140-50646/10	0.04	0.062565	4.8	904221.0	1.564131	Y
3	IC 140-50646/11	0.08	0.113195	4.8	857465.0	1.414938	Y
4	IC 140-50646/12	0.16	0.230057	4.8	847616.0	1.437856	Y
5	IC 140-50646/13	0.4	0.561484	4.8	885413.0	1.403711	Y
6	IC 140-50646/14	1.0	1.492183	4.8	894154.0	1.492183	Y
7	ICIS 140-50646/15	2.0	3.097053	4.8	934893.0	1.548526	Y
8	IC 140-50646/7	4.0	6.268686	4.8	1060151.0	1.567171	Y
9	IC 140-50646/5	8.0	12.919412	4.8	1052212.0	1.614926	Y
10	IC 140-50646/3	16.0	27.326593	4.8	959637.0	1.707912	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

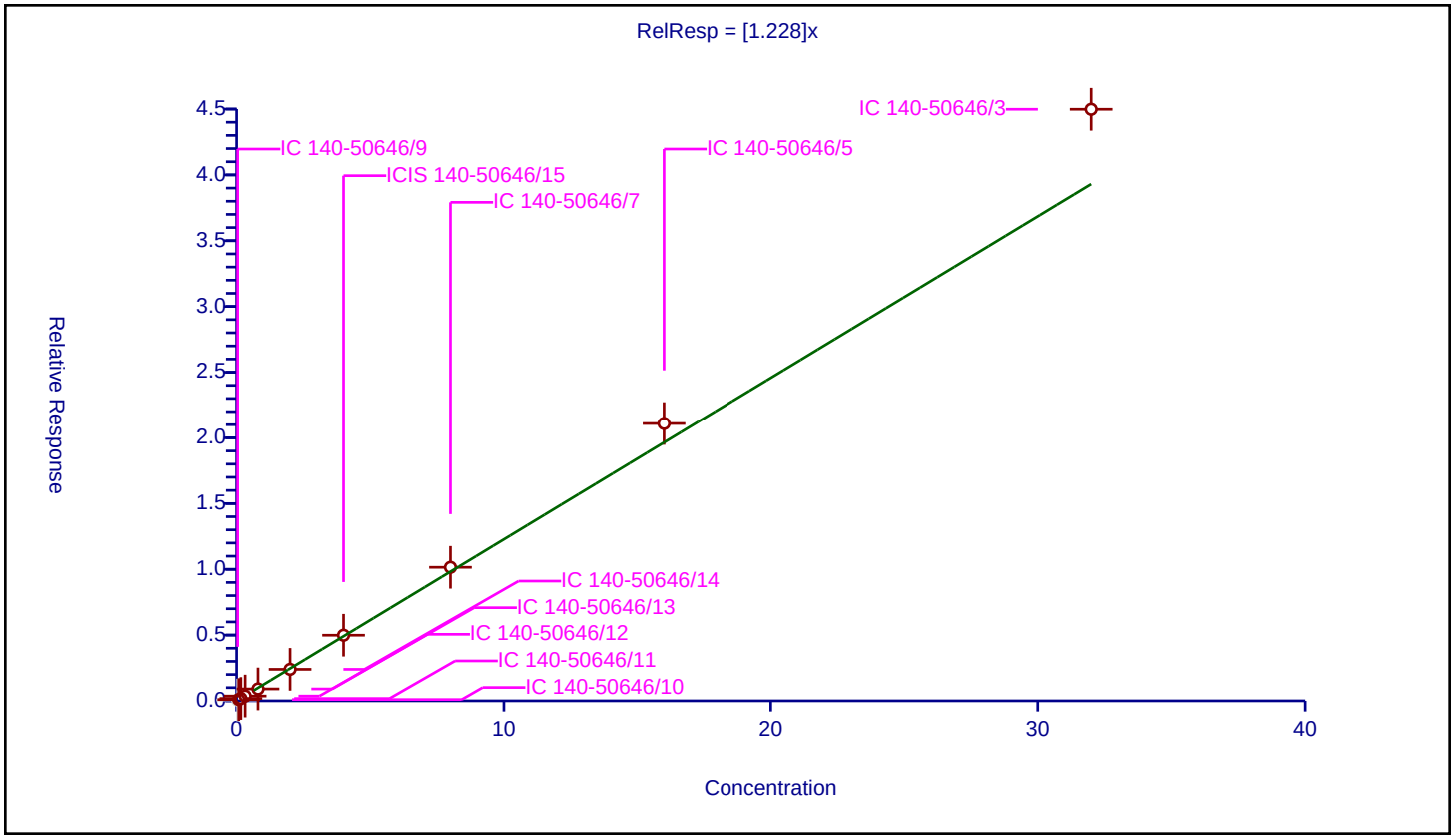
Curve Coefficients

Intercept:	0
Slope:	1.228

Error Coefficients

Standard Error:	3680000
Relative Standard Error:	7.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.04	0.059469	4.8	959848.0	1.486735	N
2	IC 140-50646/10	0.08	0.097888	4.8	904221.0	1.223595	Y
3	IC 140-50646/11	0.16	0.179603	4.8	857465.0	1.122518	Y
4	IC 140-50646/12	0.32	0.365594	4.8	847616.0	1.142481	Y
5	IC 140-50646/13	0.8	0.902581	4.8	885413.0	1.128226	Y
6	IC 140-50646/14	2.0	2.392533	4.8	894154.0	1.196266	Y
7	ICIS 140-50646/15	4.0	4.988977	4.8	934893.0	1.247244	Y
8	IC 140-50646/7	8.0	10.15448	4.8	1060151.0	1.26931	Y
9	IC 140-50646/5	16.0	21.09492	4.8	1052212.0	1.318433	Y
10	IC 140-50646/3	32.0	44.984325	4.8	959637.0	1.40576	Y



Calibration / n-Nonane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

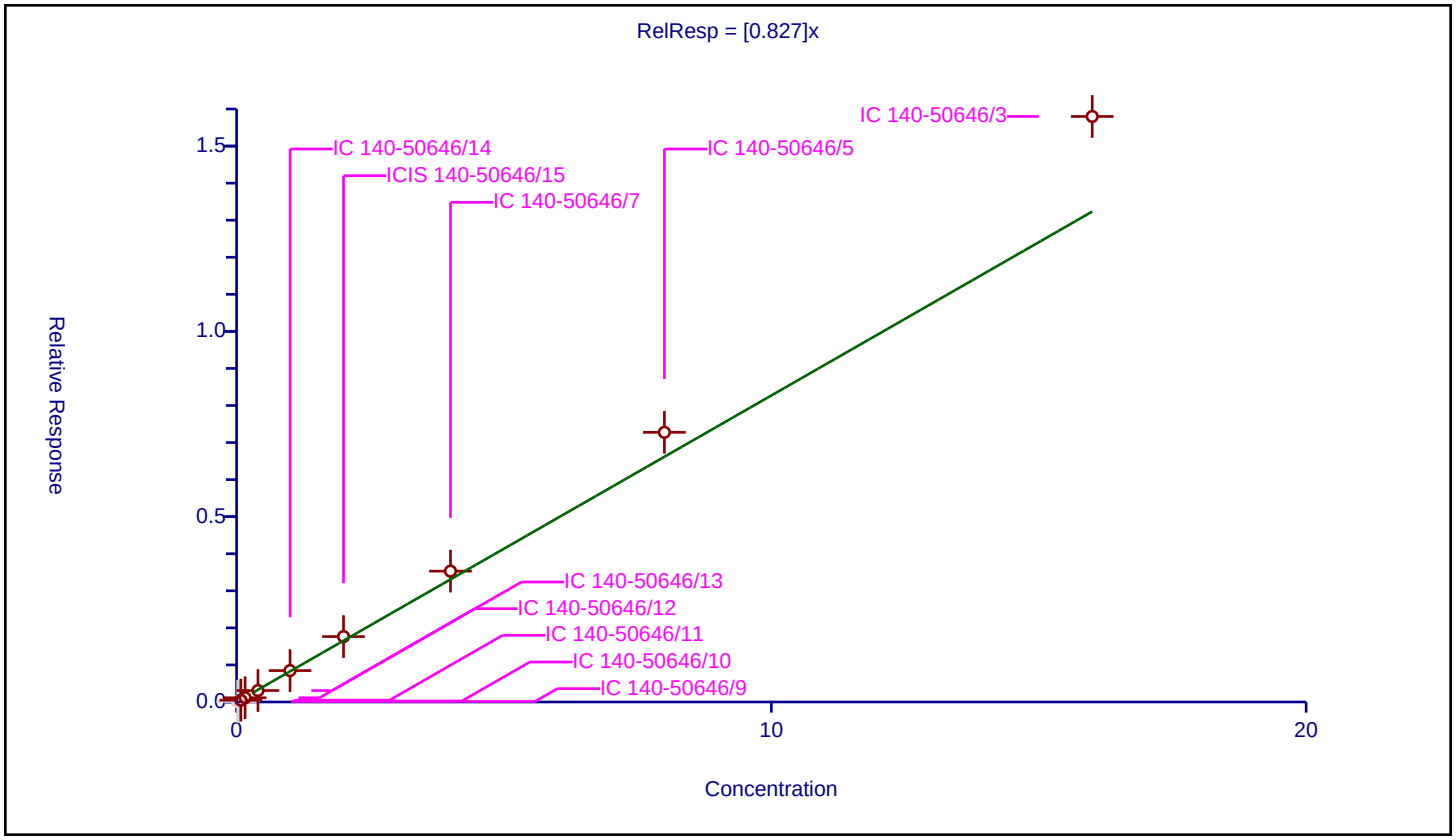
Curve Coefficients

Intercept:	0
Slope:	0.827

Error Coefficients

Standard Error:	1380000
Relative Standard Error:	14.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.014797	4.8	959848.0	0.739867	N
2	IC 140-50646/10	0.04	0.025688	4.8	904221.0	0.642188	N
3	IC 140-50646/11	0.08	0.049631	4.8	857465.0	0.620387	Y
4	IC 140-50646/12	0.16	0.11408	4.8	847616.0	0.713	Y
5	IC 140-50646/13	0.4	0.309372	4.8	885413.0	0.773429	Y
6	IC 140-50646/14	1.0	0.847526	4.8	894154.0	0.847526	Y
7	ICIS 140-50646/15	2.0	1.764774	4.8	934893.0	0.882387	Y
8	IC 140-50646/7	4.0	3.530074	4.8	1060151.0	0.882518	Y
9	IC 140-50646/5	8.0	7.276205	4.8	1052212.0	0.909526	Y
10	IC 140-50646/3	16.0	15.798754	4.8	959637.0	0.987422	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

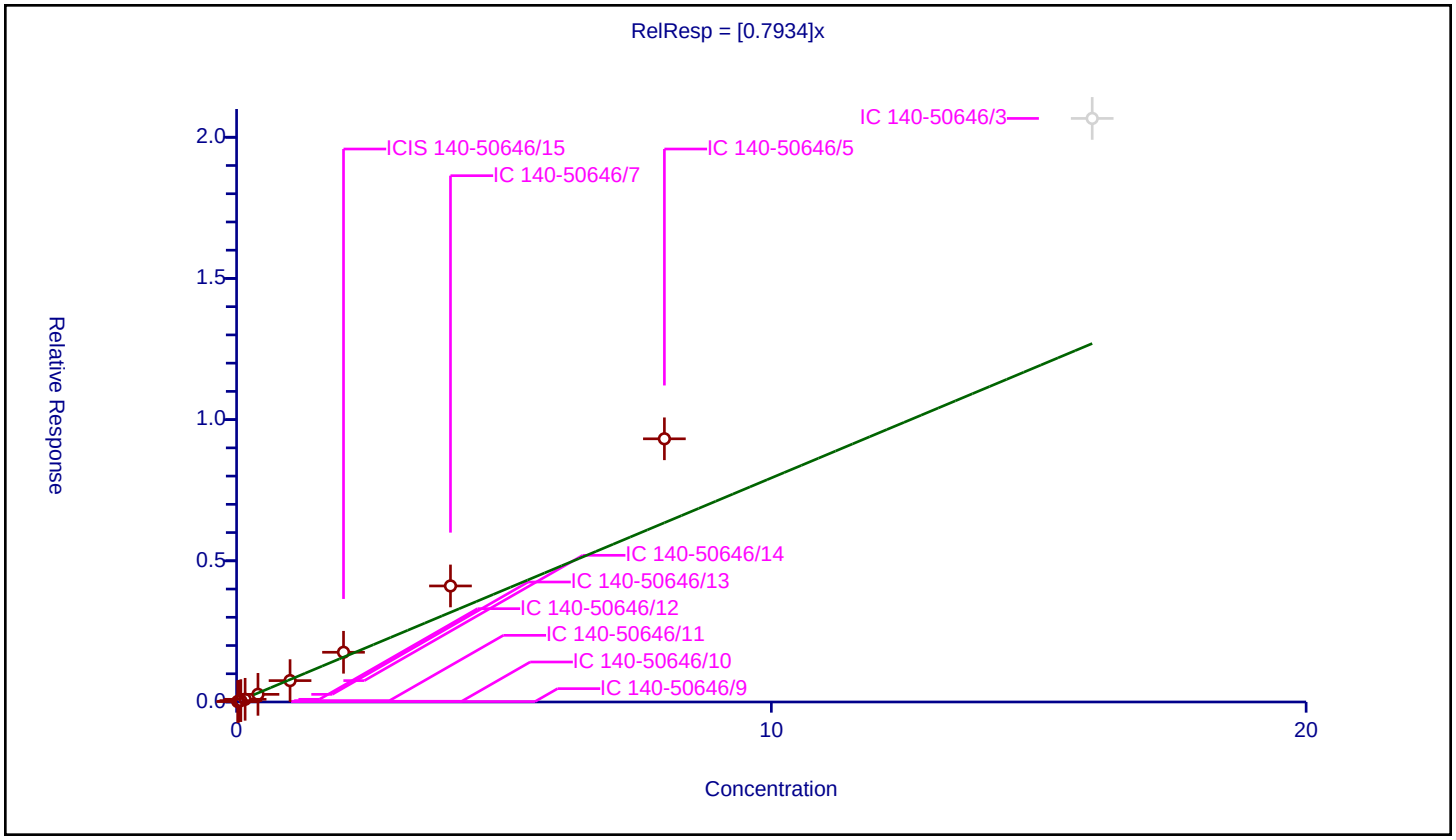
Curve Coefficients

Intercept:	0
Slope:	0.7934

Error Coefficients

Standard Error:	801000
Relative Standard Error:	24.8
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.931

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.015612	4.8	959848.0	0.780624	Y
2	IC 140-50646/10	0.04	0.026372	4.8	904221.0	0.659308	Y
3	IC 140-50646/11	0.08	0.04822	4.8	857465.0	0.602753	Y
4	IC 140-50646/12	0.16	0.094662	4.8	847616.0	0.591636	Y
5	IC 140-50646/13	0.4	0.270691	4.8	885413.0	0.676728	Y
6	IC 140-50646/14	1.0	0.756836	4.8	894154.0	0.756836	Y
7	ICIS 140-50646/15	2.0	1.760836	4.8	934893.0	0.880418	Y
8	IC 140-50646/7	4.0	4.109415	4.8	1060151.0	1.027354	Y
9	IC 140-50646/5	8.0	9.321036	4.8	1052212.0	1.165129	Y
10	IC 140-50646/3	16.0	20.666359	4.8	959637.0	1.291647	N



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

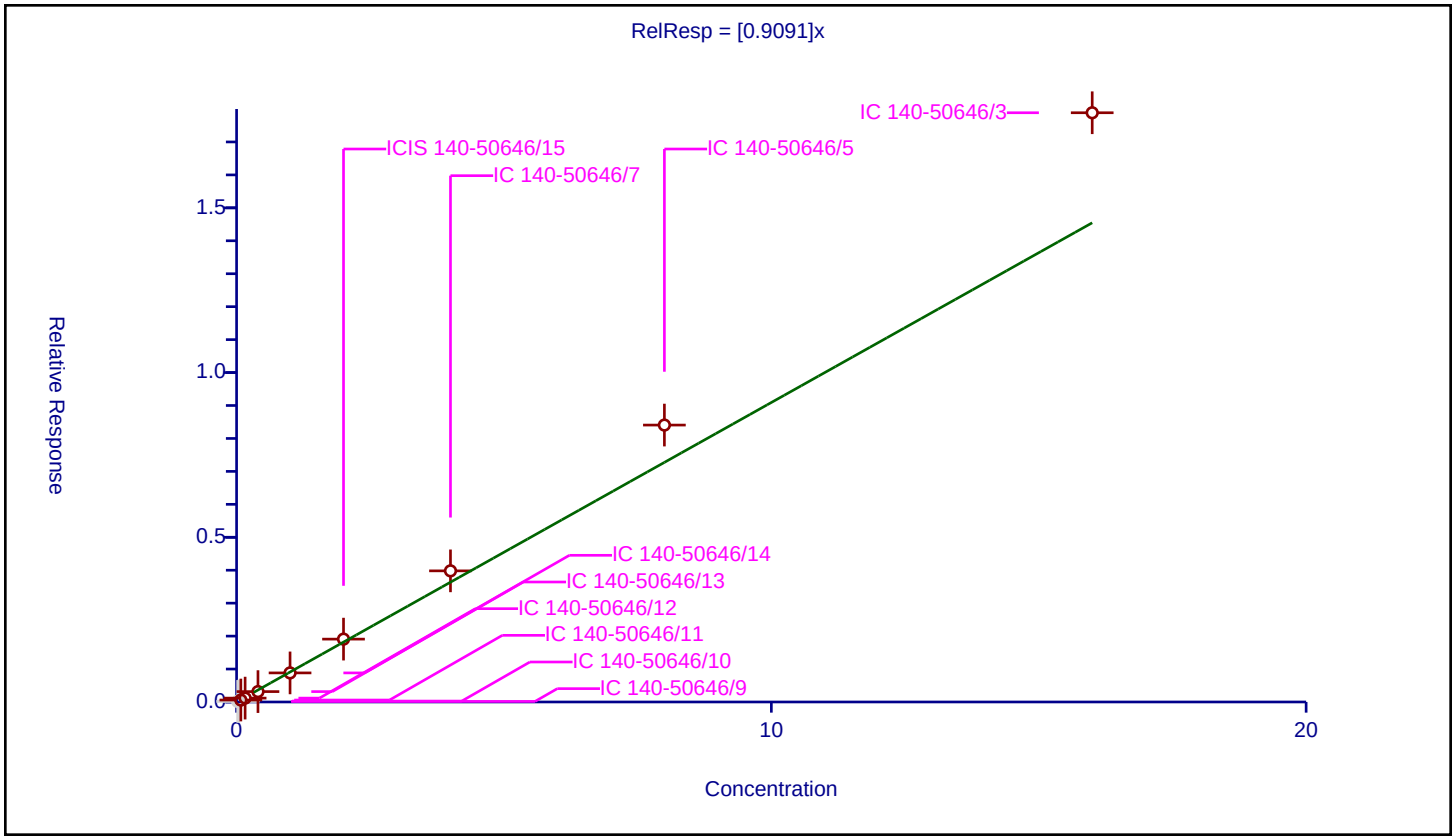
Curve Coefficients

Intercept:	0
Slope:	0.9091

Error Coefficients

Standard Error:	1560000
Relative Standard Error:	15.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.017608	4.8	959848.0	0.880389	N
2	IC 140-50646/10	0.04	0.028076	4.8	904221.0	0.701908	N
3	IC 140-50646/11	0.08	0.059825	4.8	857465.0	0.747809	Y
4	IC 140-50646/12	0.16	0.117931	4.8	847616.0	0.737067	Y
5	IC 140-50646/13	0.4	0.315161	4.8	885413.0	0.787903	Y
6	IC 140-50646/14	1.0	0.882414	4.8	894154.0	0.882414	Y
7	ICIS 140-50646/15	2.0	1.908175	4.8	934893.0	0.954087	Y
8	IC 140-50646/7	4.0	3.980331	4.8	1060151.0	0.995083	Y
9	IC 140-50646/5	8.0	8.406113	4.8	1052212.0	1.050764	Y
10	IC 140-50646/3	16.0	17.886263	4.8	959637.0	1.117891	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

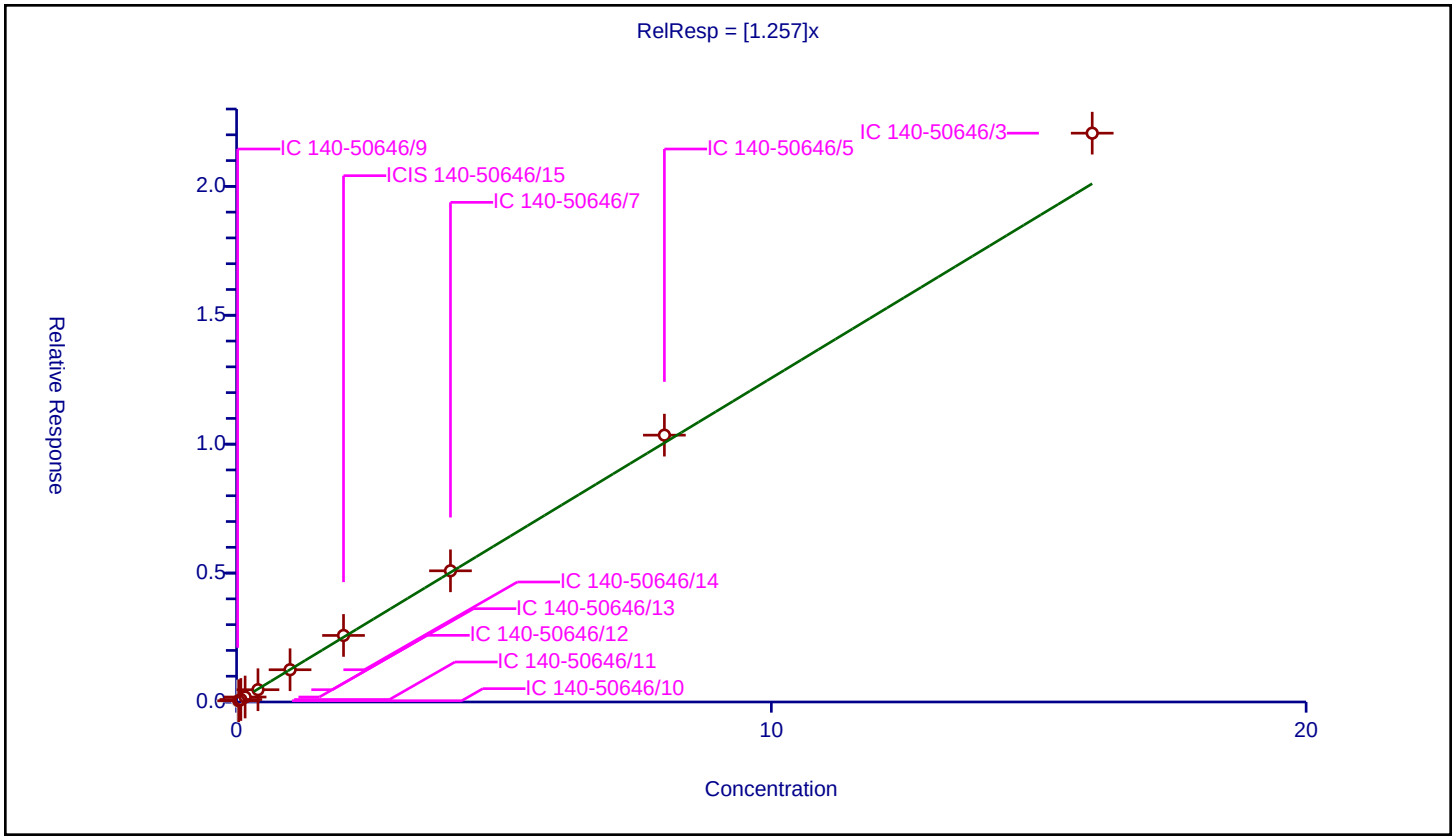
Curve Coefficients

Intercept:	0
Slope:	1.257

Error Coefficients

Standard Error:	1810000
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.03426	4.8	959848.0	1.713021	N
2	IC 140-50646/10	0.04	0.049007	4.8	904221.0	1.225187	Y
3	IC 140-50646/11	0.08	0.09634	4.8	857465.0	1.204247	Y
4	IC 140-50646/12	0.16	0.192585	4.8	847616.0	1.203658	Y
5	IC 140-50646/13	0.4	0.475905	4.8	885413.0	1.189763	Y
6	IC 140-50646/14	1.0	1.250684	4.8	894154.0	1.250684	Y
7	ICIS 140-50646/15	2.0	2.581391	4.8	934893.0	1.290696	Y
8	IC 140-50646/7	4.0	5.088117	4.8	1060151.0	1.272029	Y
9	IC 140-50646/5	8.0	10.35005	4.8	1052212.0	1.293756	Y
10	IC 140-50646/3	16.0	22.063153	4.8	959637.0	1.378947	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

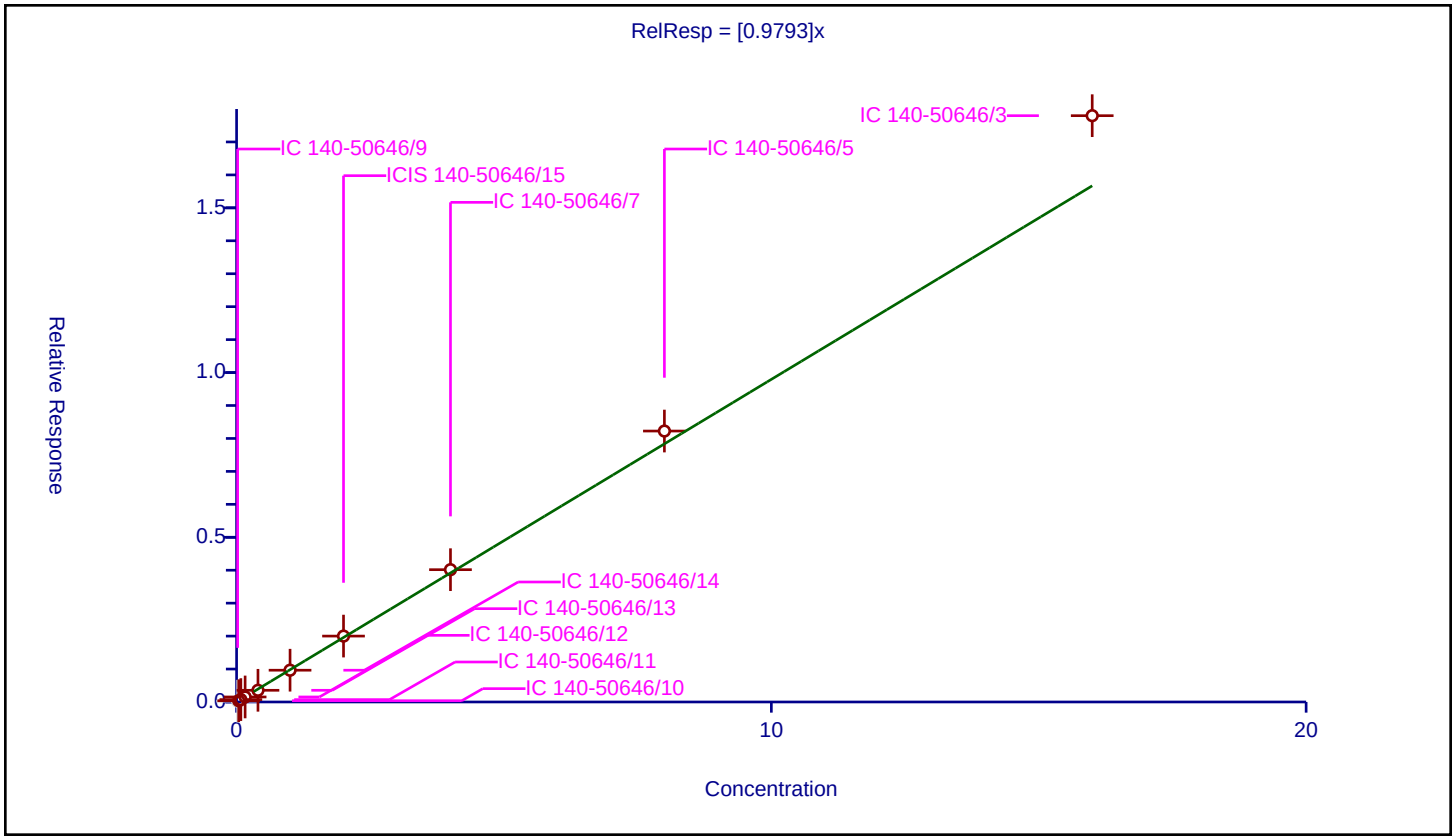
Curve Coefficients

Intercept:	0
Slope:	0.9793

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	6.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.024504	4.8	959848.0	1.225194	N
2	IC 140-50646/10	0.04	0.038162	4.8	904221.0	0.954059	Y
3	IC 140-50646/11	0.08	0.07275	4.8	857465.0	0.909378	Y
4	IC 140-50646/12	0.16	0.152571	4.8	847616.0	0.953569	Y
5	IC 140-50646/13	0.4	0.354931	4.8	885413.0	0.887328	Y
6	IC 140-50646/14	1.0	0.964612	4.8	894154.0	0.964612	Y
7	ICIS 140-50646/15	2.0	2.00053	4.8	934893.0	1.000265	Y
8	IC 140-50646/7	4.0	4.016317	4.8	1060151.0	1.004079	Y
9	IC 140-50646/5	8.0	8.224717	4.8	1052212.0	1.02809	Y
10	IC 140-50646/3	16.0	17.797495	4.8	959637.0	1.112343	Y



Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

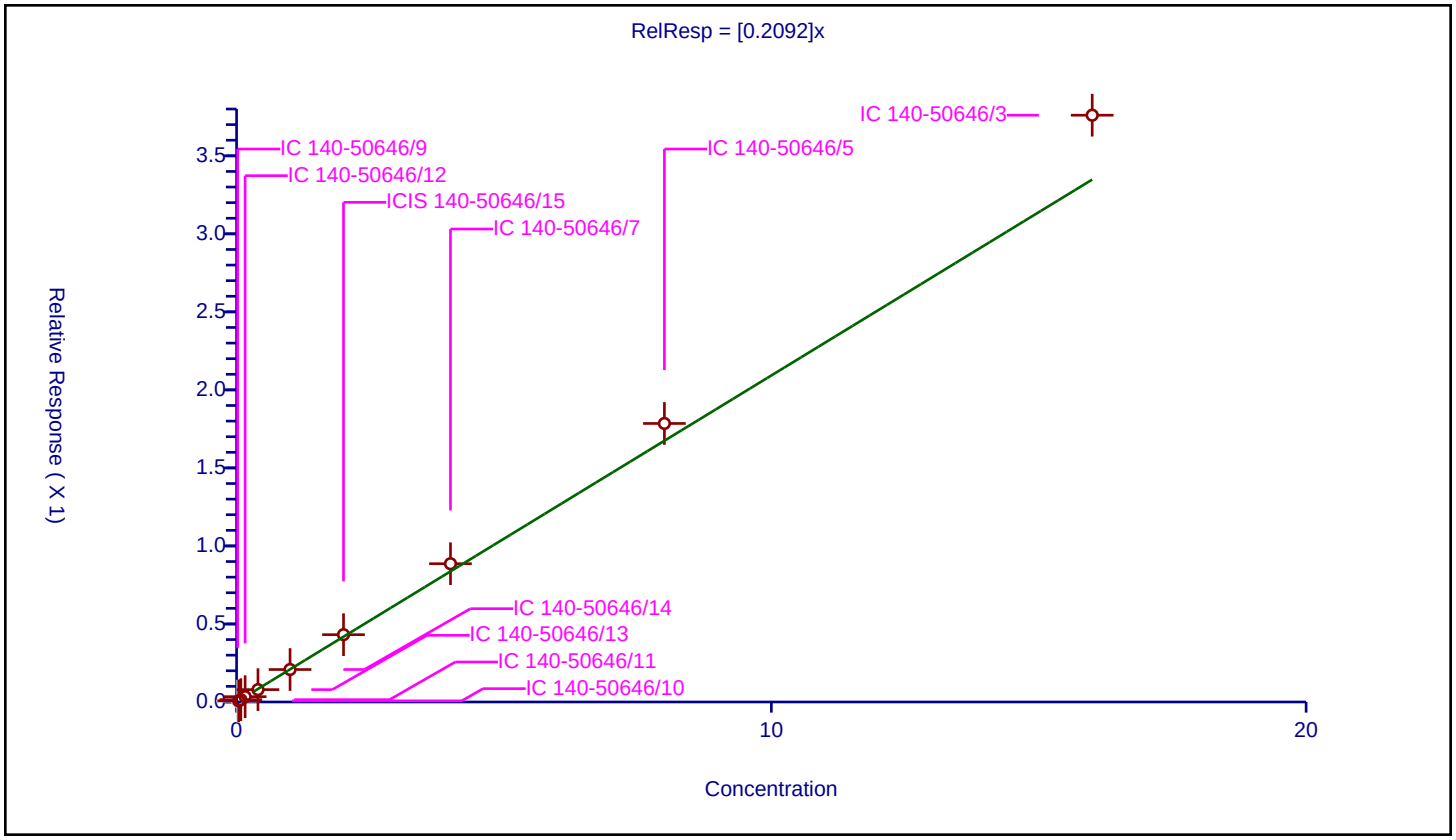
Curve Coefficients

Intercept:	0
Slope:	0.2092

Error Coefficients

Standard Error:	309000
Relative Standard Error:	8.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.005256	4.8	959848.0	0.262792	N
2	IC 140-50646/10	0.04	0.007384	4.8	904221.0	0.184601	Y
3	IC 140-50646/11	0.08	0.014717	4.8	857465.0	0.183961	Y
4	IC 140-50646/12	0.16	0.034108	4.8	847616.0	0.213174	Y
5	IC 140-50646/13	0.4	0.079177	4.8	885413.0	0.197942	Y
6	IC 140-50646/14	1.0	0.208109	4.8	894154.0	0.208109	Y
7	ICIS 140-50646/15	2.0	0.431403	4.8	934893.0	0.215701	Y
8	IC 140-50646/7	4.0	0.886112	4.8	1060151.0	0.221528	Y
9	IC 140-50646/5	8.0	1.784903	4.8	1052212.0	0.223113	Y
10	IC 140-50646/3	16.0	3.760417	4.8	959637.0	0.235026	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

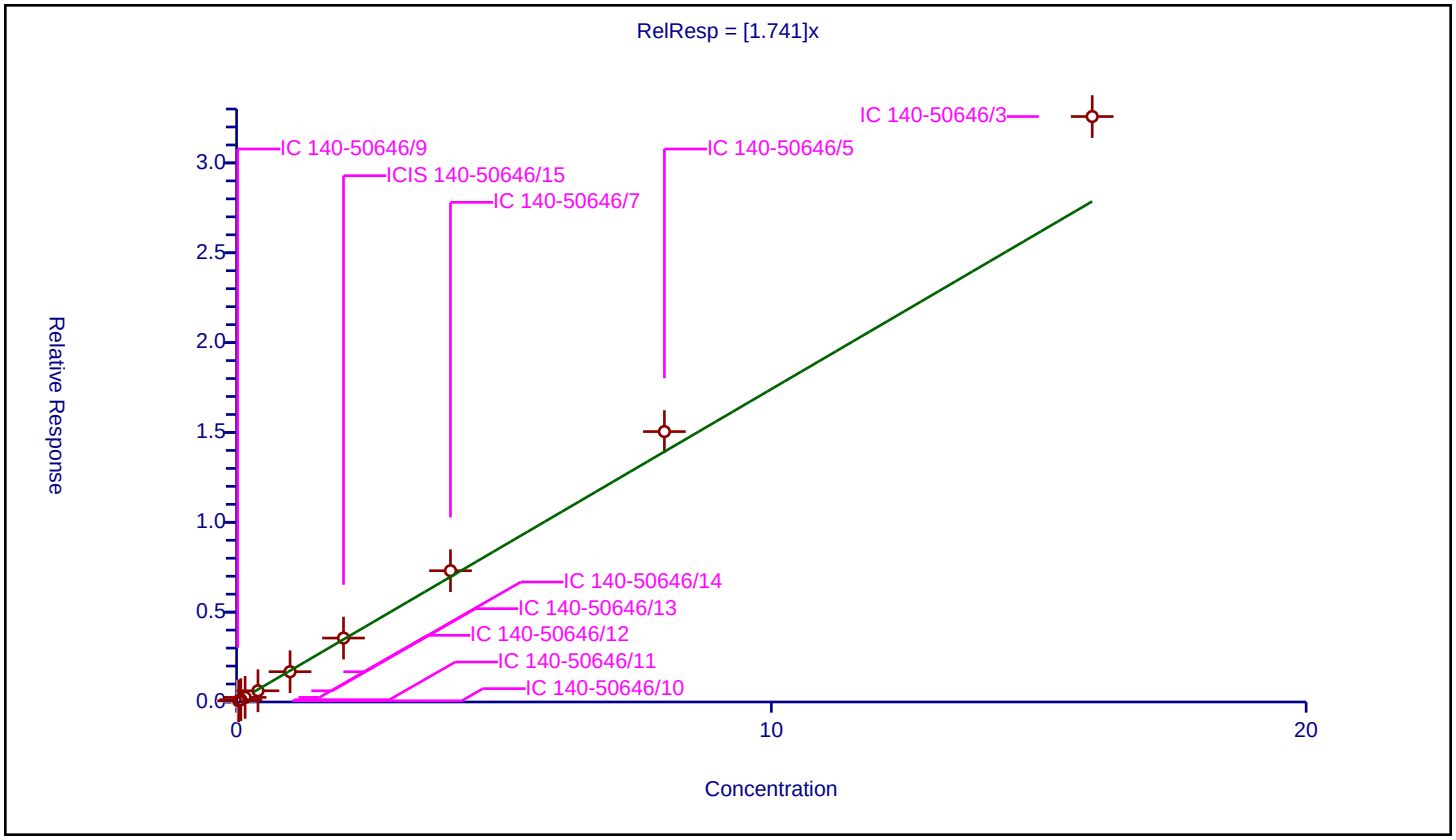
Curve Coefficients

Intercept:	0
Slope:	1.741

Error Coefficients

Standard Error:	2660000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.044107	4.8	959848.0	2.205349	N
2	IC 140-50646/10	0.04	0.068097	4.8	904221.0	1.702416	Y
3	IC 140-50646/11	0.08	0.128029	4.8	857465.0	1.600369	Y
4	IC 140-50646/12	0.16	0.256039	4.8	847616.0	1.600241	Y
5	IC 140-50646/13	0.4	0.623698	4.8	885413.0	1.559245	Y
6	IC 140-50646/14	1.0	1.685218	4.8	894154.0	1.685218	Y
7	ICIS 140-50646/15	2.0	3.558557	4.8	934893.0	1.779279	Y
8	IC 140-50646/7	4.0	7.305483	4.8	1060151.0	1.826371	Y
9	IC 140-50646/5	8.0	15.049635	4.8	1052212.0	1.881204	Y
10	IC 140-50646/3	16.0	32.581905	4.8	959637.0	2.036369	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

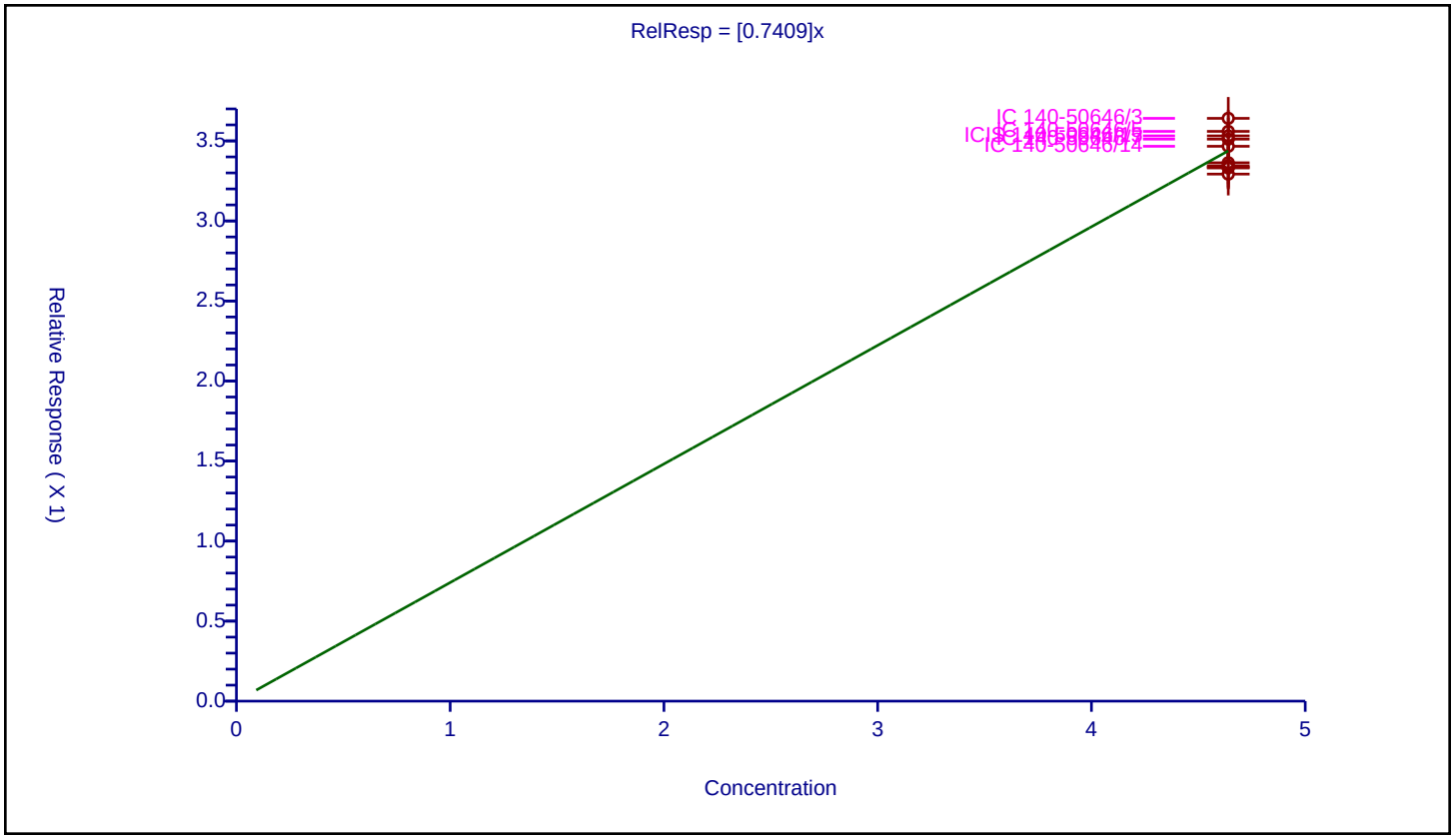
Curve Coefficients

Intercept:	0
Slope:	0.7409

Error Coefficients

Standard Error:	711000
Relative Standard Error:	3.5
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/3	4.64	3.640857	4.8	959637.0	0.784667	Y
2	IC 140-50646/5	4.64	3.559569	4.8	1052212.0	0.767148	Y
3	IC 140-50646/7	4.64	3.510949	4.8	1060151.0	0.75667	Y
4	IC 140-50646/9	4.64	3.344475	4.8	959848.0	0.720792	Y
5	IC 140-50646/10	4.64	3.292606	4.8	904221.0	0.709613	Y
6	IC 140-50646/11	4.64	3.335187	4.8	857465.0	0.71879	Y
7	IC 140-50646/12	4.64	3.331022	4.8	847616.0	0.717893	Y
8	IC 140-50646/13	4.64	3.363561	4.8	885413.0	0.724905	Y
9	IC 140-50646/14	4.64	3.466458	4.8	894154.0	0.747081	Y
10	ICIS 140-50646/15	4.64	3.531377	4.8	934893.0	0.761073	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

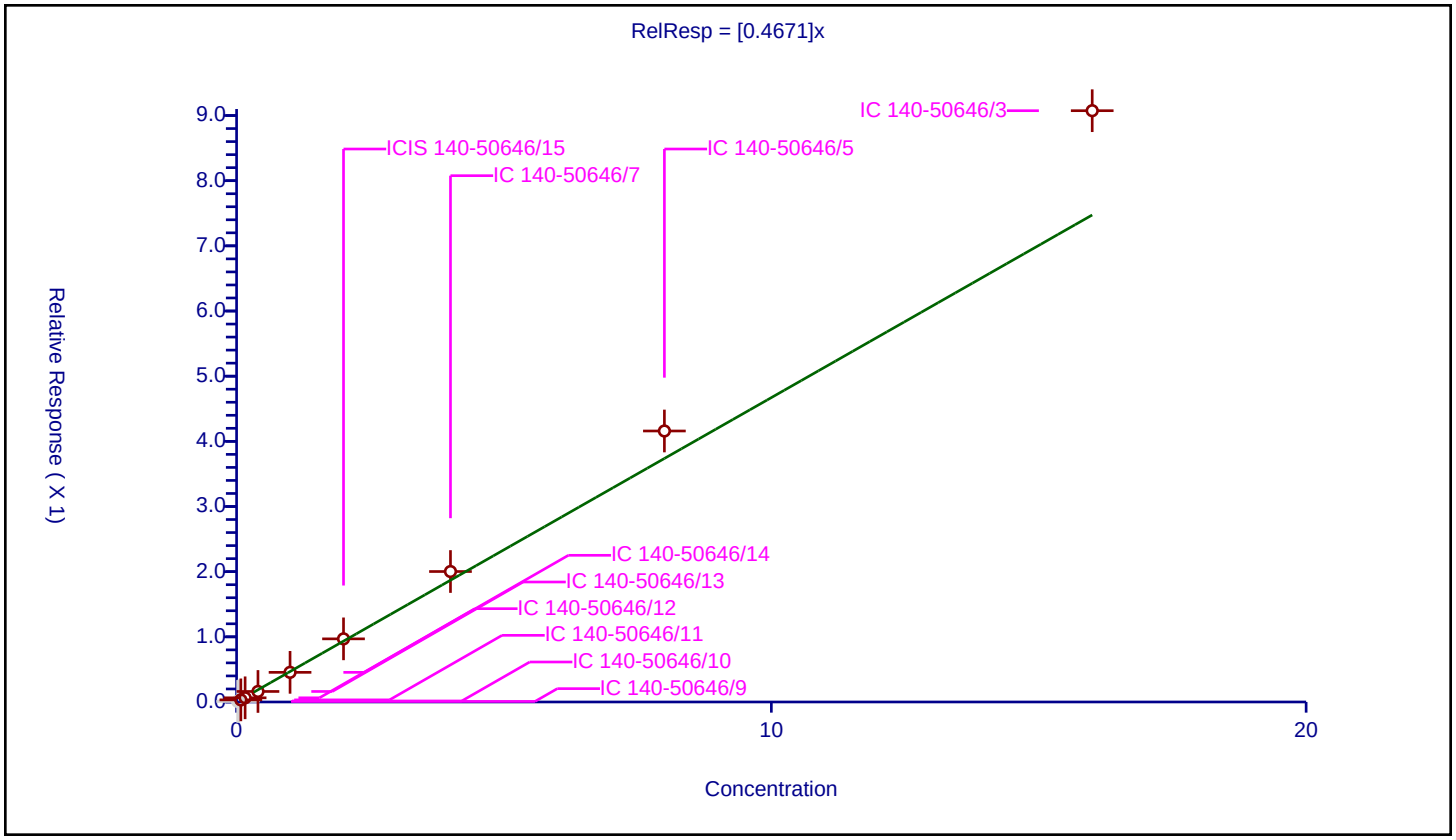
Curve Coefficients

Intercept:	0
Slope:	0.4671

Error Coefficients

Standard Error:	789000
Relative Standard Error:	13.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.008806	4.8	959848.0	0.44032	N
2	IC 140-50646/10	0.04	0.015729	4.8	904221.0	0.393222	N
3	IC 140-50646/11	0.08	0.032574	4.8	857465.0	0.407177	Y
4	IC 140-50646/12	0.16	0.063912	4.8	847616.0	0.39945	Y
5	IC 140-50646/13	0.4	0.161416	4.8	885413.0	0.40354	Y
6	IC 140-50646/14	1.0	0.454767	4.8	894154.0	0.454767	Y
7	ICIS 140-50646/15	2.0	0.968823	4.8	934893.0	0.484411	Y
8	IC 140-50646/7	4.0	2.002003	4.8	1060151.0	0.500501	Y
9	IC 140-50646/5	8.0	4.158969	4.8	1052212.0	0.519871	Y
10	IC 140-50646/3	16.0	9.074066	4.8	959637.0	0.567129	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

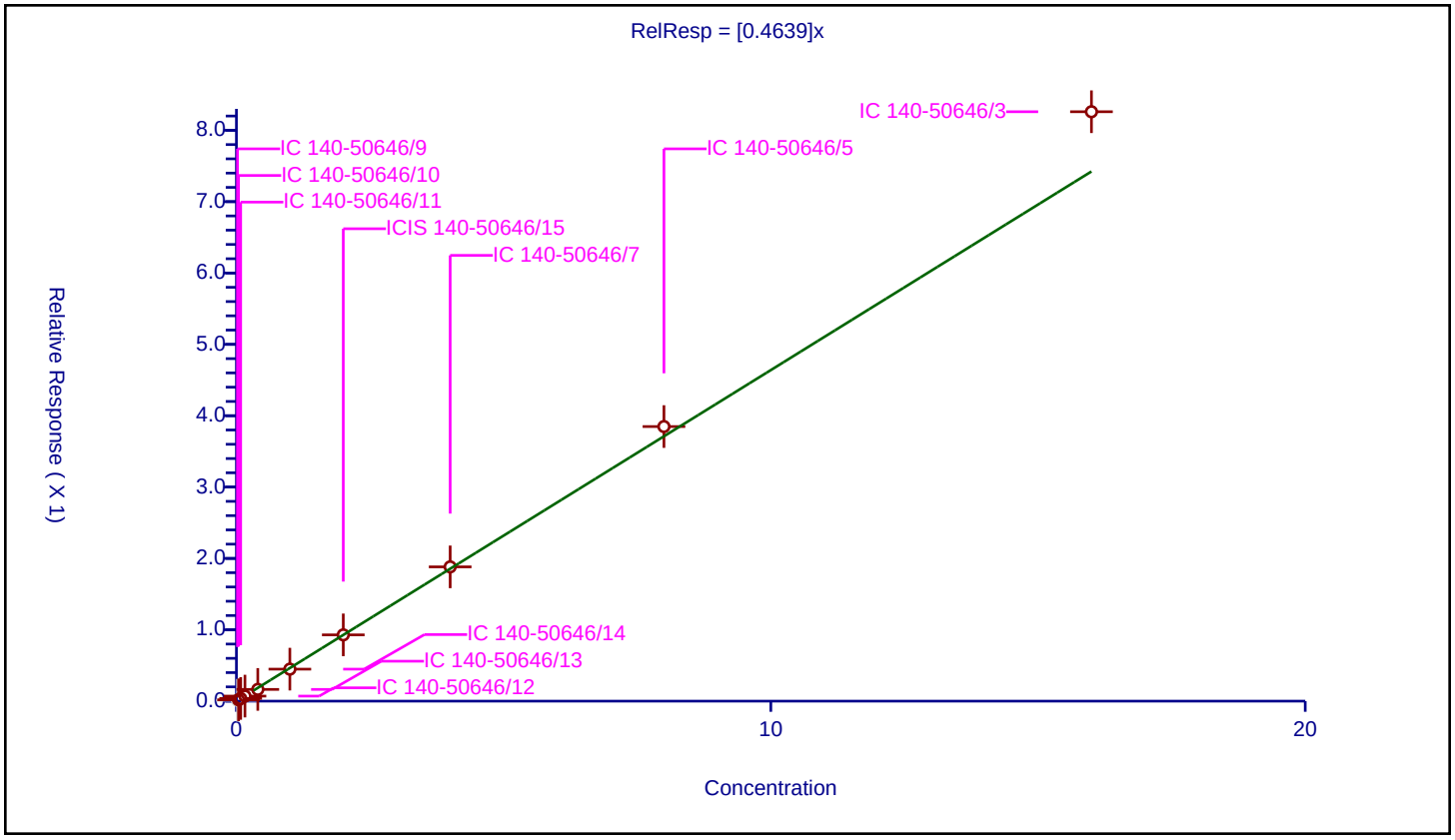
Curve Coefficients

Intercept:	0
Slope:	0.4639

Error Coefficients

Standard Error:	676000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.012667	4.8	959848.0	0.63335	N
2	IC 140-50646/10	0.04	0.018733	4.8	904221.0	0.468337	Y
3	IC 140-50646/11	0.08	0.037943	4.8	857465.0	0.474282	Y
4	IC 140-50646/12	0.16	0.070628	4.8	847616.0	0.441426	Y
5	IC 140-50646/13	0.4	0.164371	4.8	885413.0	0.410927	Y
6	IC 140-50646/14	1.0	0.448358	4.8	894154.0	0.448358	Y
7	ICIS 140-50646/15	2.0	0.928673	4.8	934893.0	0.464336	Y
8	IC 140-50646/7	4.0	1.881812	4.8	1060151.0	0.470453	Y
9	IC 140-50646/5	8.0	3.848282	4.8	1052212.0	0.481035	Y
10	IC 140-50646/3	16.0	8.259943	4.8	959637.0	0.516246	Y



Calibration / 4-Ethyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

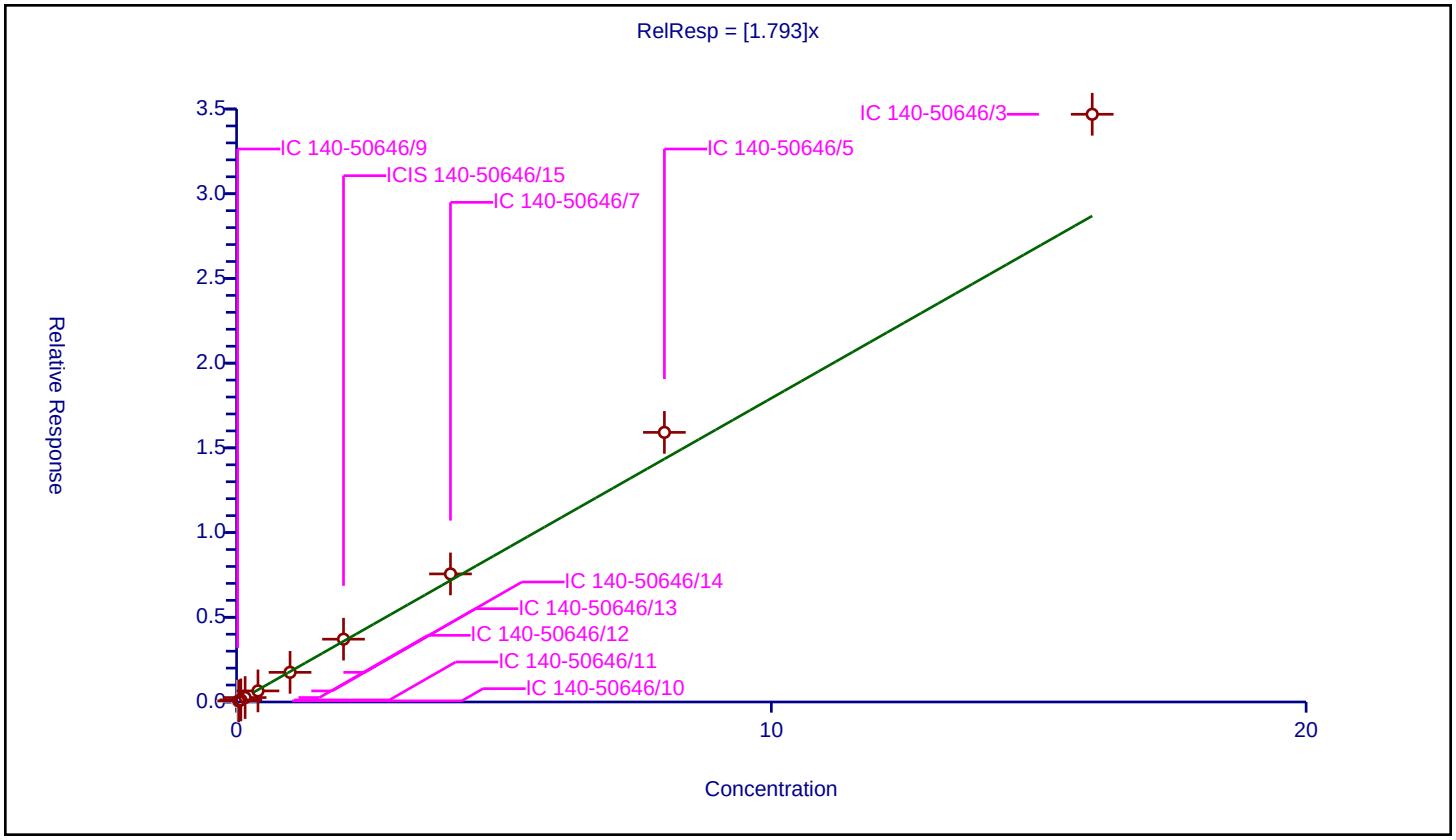
Curve Coefficients

Intercept:	0
Slope:	1.793

Error Coefficients

Standard Error:	2820000
Relative Standard Error:	11.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.042922	4.8	959848.0	2.14609	N
2	IC 140-50646/10	0.04	0.067359	4.8	904221.0	1.683969	Y
3	IC 140-50646/11	0.08	0.122308	4.8	857465.0	1.528855	Y
4	IC 140-50646/12	0.16	0.262545	4.8	847616.0	1.640908	Y
5	IC 140-50646/13	0.4	0.653341	4.8	885413.0	1.633353	Y
6	IC 140-50646/14	1.0	1.749422	4.8	894154.0	1.749422	Y
7	ICIS 140-50646/15	2.0	3.707682	4.8	934893.0	1.853841	Y
8	IC 140-50646/7	4.0	7.558452	4.8	1060151.0	1.889613	Y
9	IC 140-50646/5	8.0	15.913922	4.8	1052212.0	1.98924	Y
10	IC 140-50646/3	16.0	34.689227	4.8	959637.0	2.168077	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

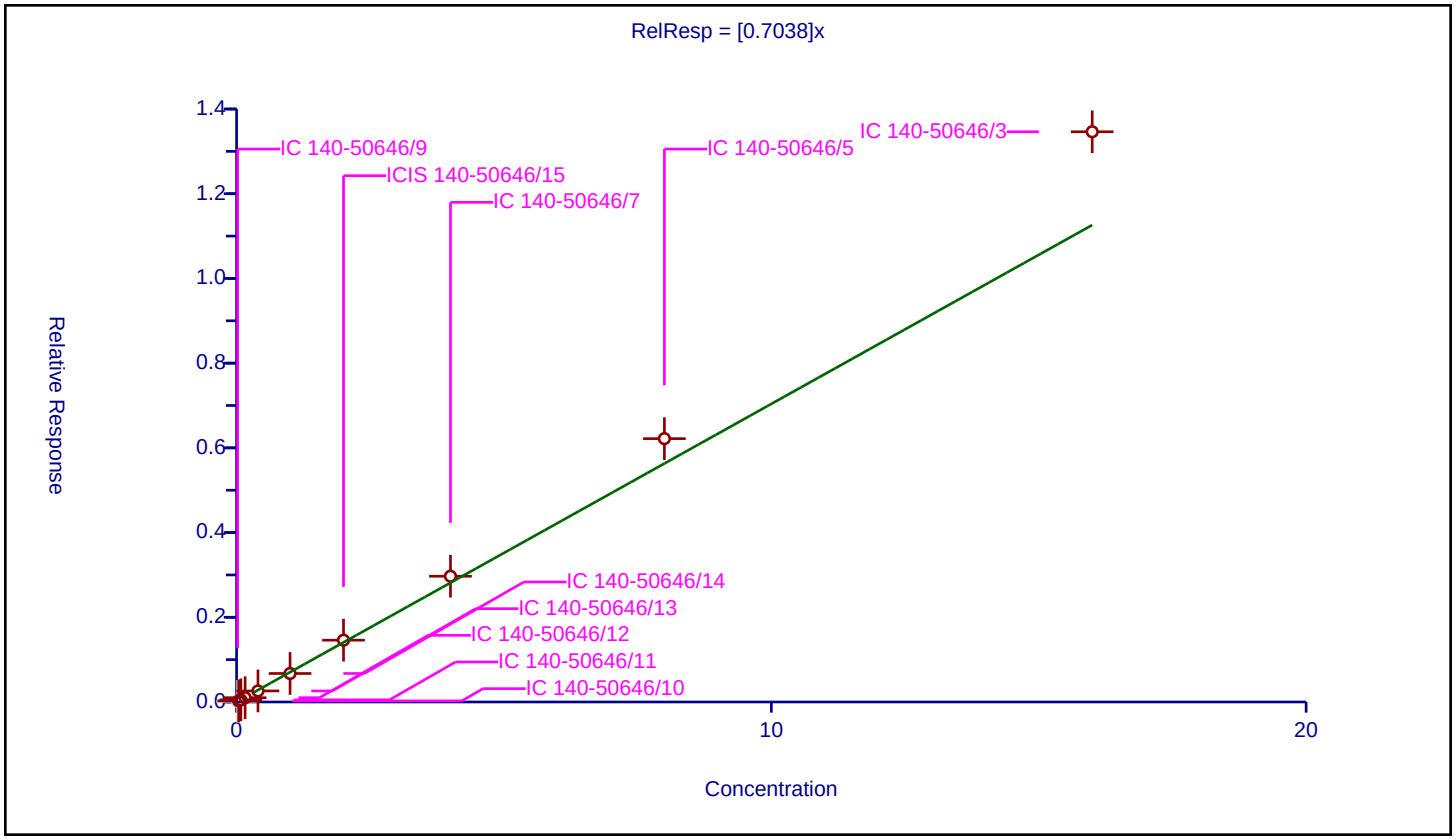
Curve Coefficients

Intercept:	0
Slope:	0.7038

Error Coefficients

Standard Error:	1100000
Relative Standard Error:	10.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.016258	4.8	959848.0	0.812879	N
2	IC 140-50646/10	0.04	0.026144	4.8	904221.0	0.653601	Y
3	IC 140-50646/11	0.08	0.050683	4.8	857465.0	0.633542	Y
4	IC 140-50646/12	0.16	0.100891	4.8	847616.0	0.630569	Y
5	IC 140-50646/13	0.4	0.26121	4.8	885413.0	0.653024	Y
6	IC 140-50646/14	1.0	0.672791	4.8	894154.0	0.672791	Y
7	ICIS 140-50646/15	2.0	1.459079	4.8	934893.0	0.72954	Y
8	IC 140-50646/7	4.0	2.96969	4.8	1060151.0	0.742423	Y
9	IC 140-50646/5	8.0	6.217617	4.8	1052212.0	0.777202	Y
10	IC 140-50646/3	16.0	13.462956	4.8	959637.0	0.841435	Y



Calibration / Alpha Methyl Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

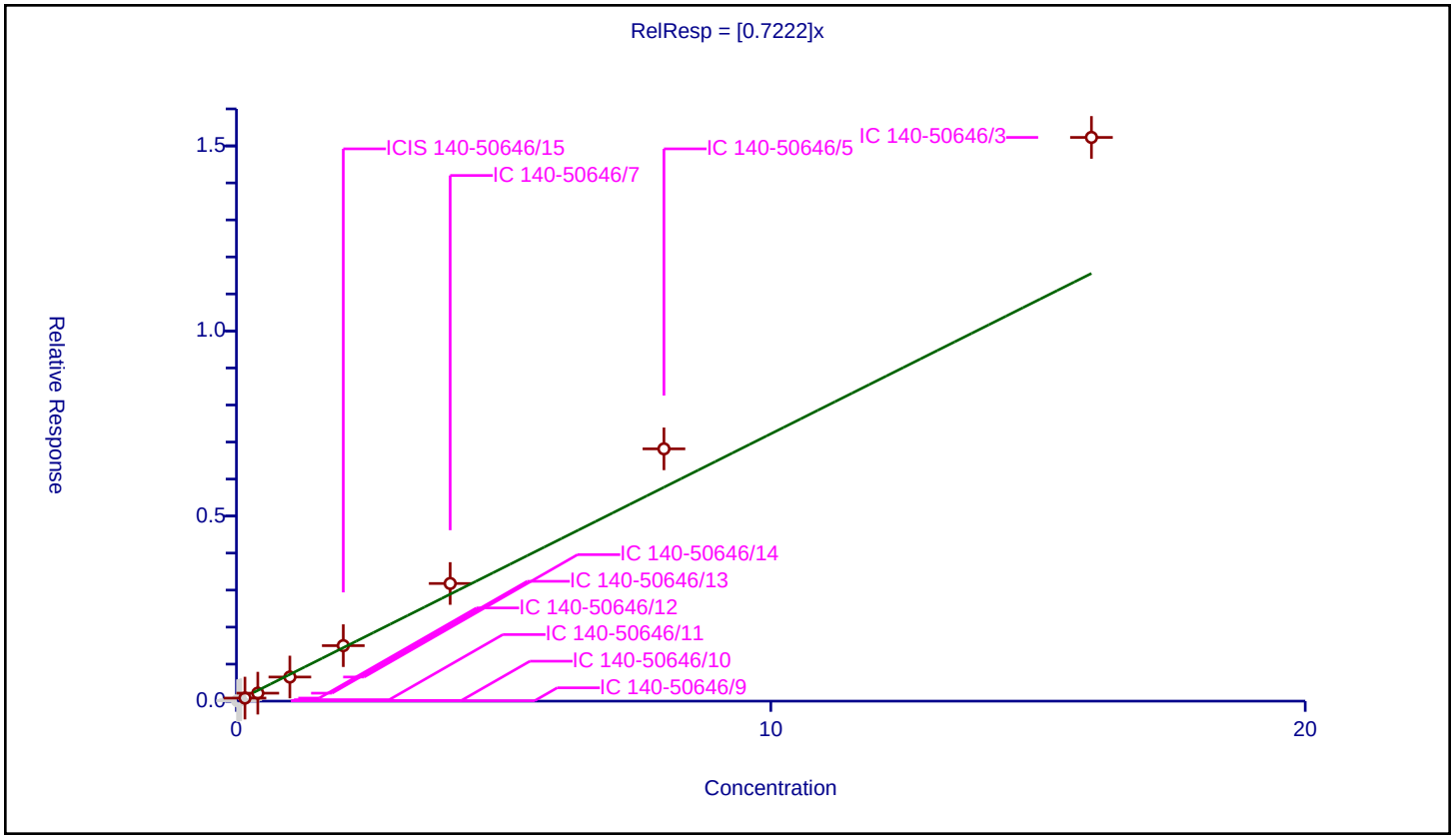
Curve Coefficients

Intercept:	0
Slope:	0.7222

Error Coefficients

Standard Error:	1420000
Relative Standard Error:	22.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.949

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.011402	4.8	959848.0	0.57009	N
2	IC 140-50646/10	0.04	0.018914	4.8	904221.0	0.472849	N
3	IC 140-50646/11	0.08	0.039387	4.8	857465.0	0.492335	N
4	IC 140-50646/12	0.16	0.082702	4.8	847616.0	0.516885	Y
5	IC 140-50646/13	0.4	0.215547	4.8	885413.0	0.538867	Y
6	IC 140-50646/14	1.0	0.651399	4.8	894154.0	0.651399	Y
7	ICIS 140-50646/15	2.0	1.499486	4.8	934893.0	0.749743	Y
8	IC 140-50646/7	4.0	3.17856	4.8	1060151.0	0.79464	Y
9	IC 140-50646/5	8.0	6.81548	4.8	1052212.0	0.851935	Y
10	IC 140-50646/3	16.0	15.229094	4.8	959637.0	0.951818	Y



Calibration / n-Decane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

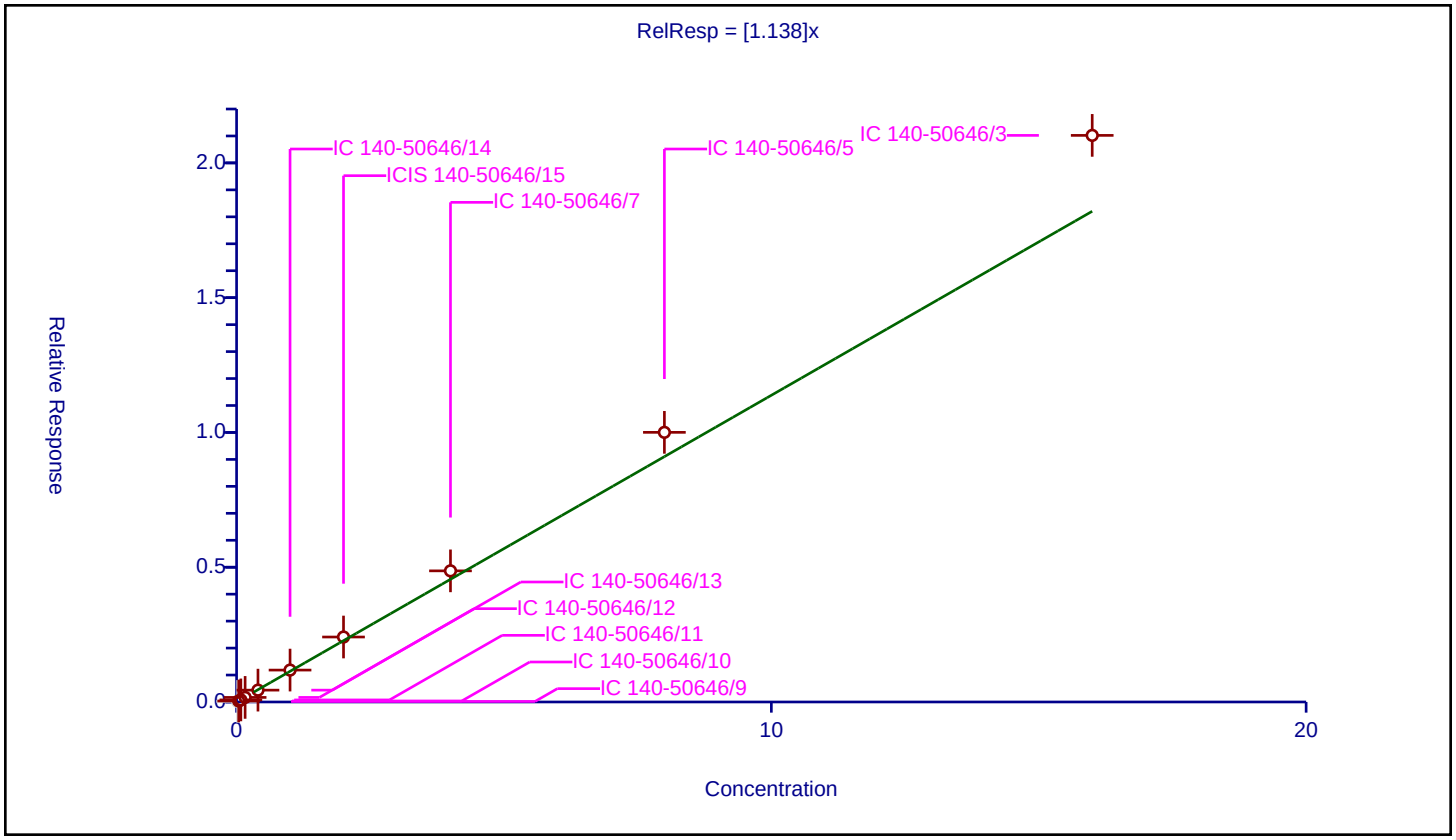
Curve Coefficients

Intercept:	0
Slope:	1.138

Error Coefficients

Standard Error:	1730000
Relative Standard Error:	11.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.020158	4.8	959848.0	1.00791	N
2	IC 140-50646/10	0.04	0.038019	4.8	904221.0	0.950476	Y
3	IC 140-50646/11	0.08	0.076674	4.8	857465.0	0.95843	Y
4	IC 140-50646/12	0.16	0.170081	4.8	847616.0	1.063005	Y
5	IC 140-50646/13	0.4	0.439578	4.8	885413.0	1.098945	Y
6	IC 140-50646/14	1.0	1.183973	4.8	894154.0	1.183973	Y
7	ICIS 140-50646/15	2.0	2.410769	4.8	934893.0	1.205385	Y
8	IC 140-50646/7	4.0	4.865484	4.8	1060151.0	1.216371	Y
9	IC 140-50646/5	8.0	10.004396	4.8	1052212.0	1.25055	Y
10	IC 140-50646/3	16.0	21.021519	4.8	959637.0	1.313845	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

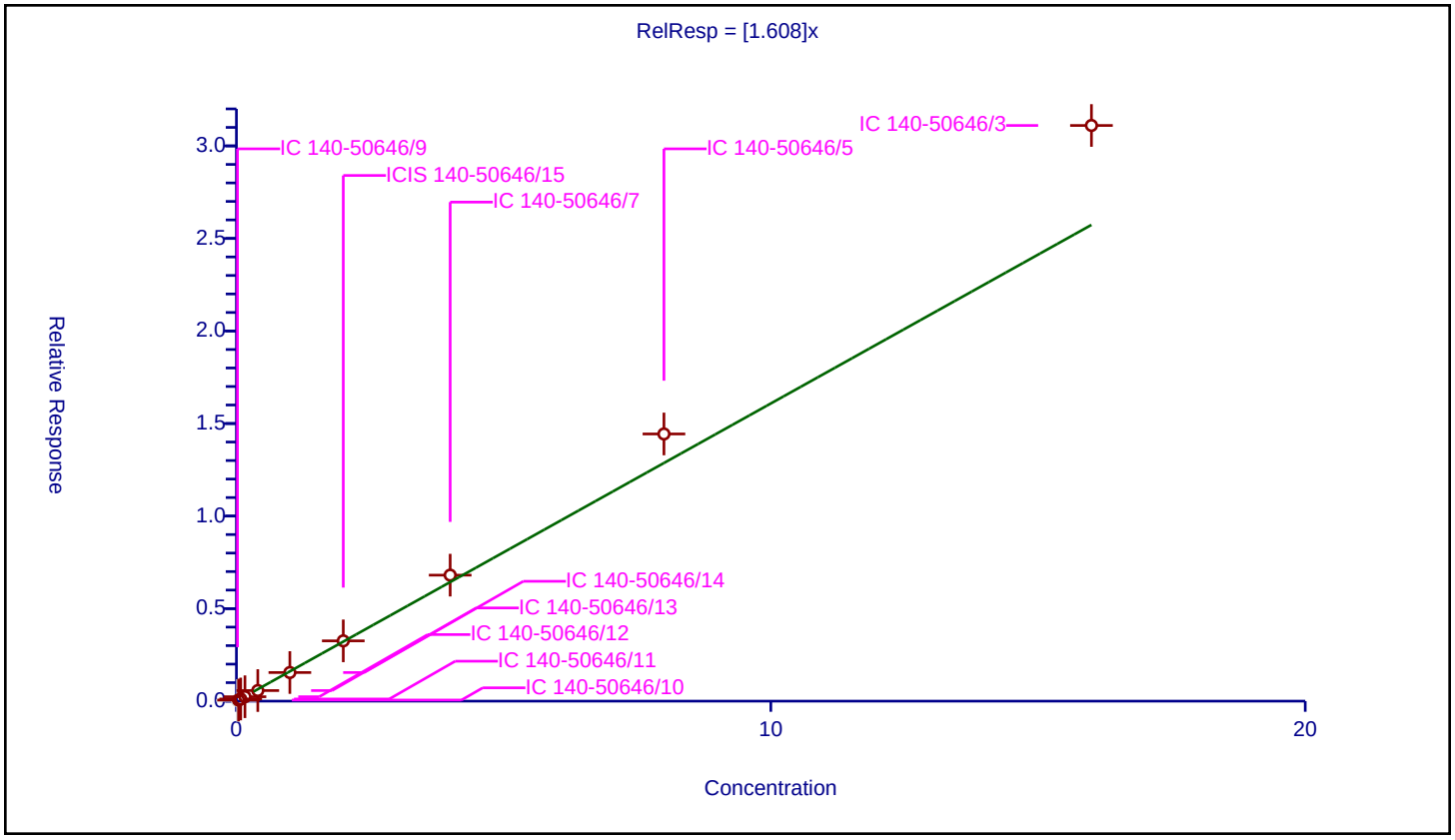
Curve Coefficients

Intercept:	0
Slope:	1.608

Error Coefficients

Standard Error:	2540000
Relative Standard Error:	11.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.036336	4.8	959848.0	1.816788	N
2	IC 140-50646/10	0.04	0.05937	4.8	904221.0	1.484239	Y
3	IC 140-50646/11	0.08	0.115966	4.8	857465.0	1.449575	Y
4	IC 140-50646/12	0.16	0.237606	4.8	847616.0	1.485036	Y
5	IC 140-50646/13	0.4	0.572338	4.8	885413.0	1.430844	Y
6	IC 140-50646/14	1.0	1.545897	4.8	894154.0	1.545897	Y
7	ICIS 140-50646/15	2.0	3.256908	4.8	934893.0	1.628454	Y
8	IC 140-50646/7	4.0	6.807857	4.8	1060151.0	1.701964	Y
9	IC 140-50646/5	8.0	14.436175	4.8	1052212.0	1.804522	Y
10	IC 140-50646/3	16.0	31.103581	4.8	959637.0	1.943974	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

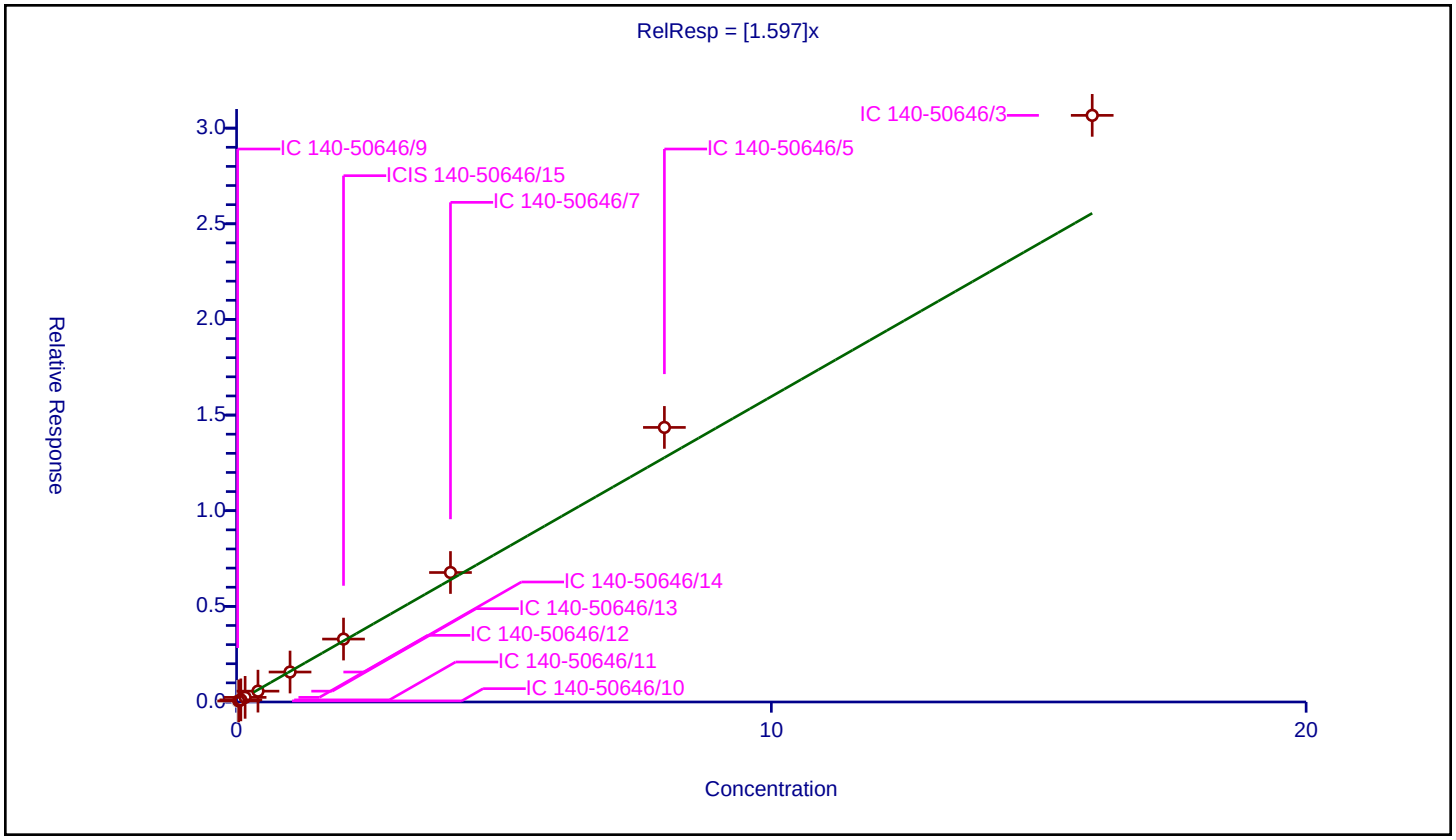
Curve Coefficients

Intercept:	0
Slope:	1.597

Error Coefficients

Standard Error:	2510000
Relative Standard Error:	11.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.035656	4.8	959848.0	1.782782	N
2	IC 140-50646/10	0.04	0.057958	4.8	904221.0	1.448938	Y
3	IC 140-50646/11	0.08	0.11062	4.8	857465.0	1.38275	Y
4	IC 140-50646/12	0.16	0.241258	4.8	847616.0	1.507864	Y
5	IC 140-50646/13	0.4	0.567193	4.8	885413.0	1.417982	Y
6	IC 140-50646/14	1.0	1.56635	4.8	894154.0	1.56635	Y
7	ICIS 140-50646/15	2.0	3.28987	4.8	934893.0	1.644935	Y
8	IC 140-50646/7	4.0	6.769549	4.8	1060151.0	1.692387	Y
9	IC 140-50646/5	8.0	14.354583	4.8	1052212.0	1.794323	Y
10	IC 140-50646/3	16.0	30.667956	4.8	959637.0	1.916747	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

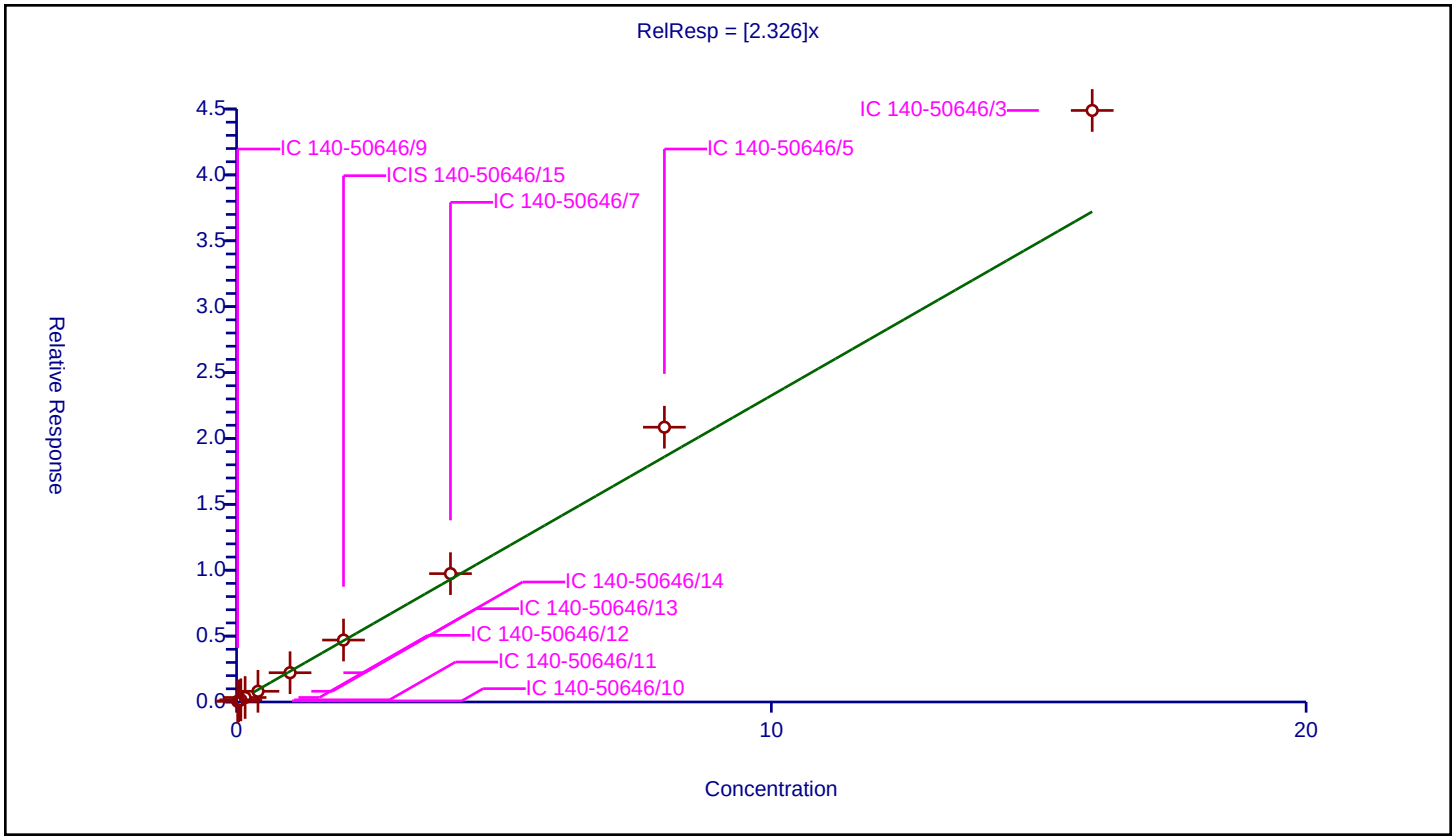
Curve Coefficients

Intercept:	0
Slope:	2.326

Error Coefficients

Standard Error:	3450000
Relative Standard Error:	11.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.050468	4.8	959848.0	2.5234	Y
2	IC 140-50646/10	0.04	0.083491	4.8	904221.0	2.087277	Y
3	IC 140-50646/11	0.08	0.165597	4.8	857465.0	2.069962	Y
4	IC 140-50646/12	0.16	0.340139	4.8	847616.0	2.125868	Y
5	IC 140-50646/13	0.4	0.812415	4.8	885413.0	2.031039	Y
6	IC 140-50646/14	1.0	2.220702	4.8	894154.0	2.220702	Y
7	ICIS 140-50646/15	2.0	4.70019	4.8	934893.0	2.350095	Y
8	IC 140-50646/7	4.0	9.74139	4.8	1060151.0	2.435347	Y
9	IC 140-50646/5	8.0	20.853741	4.8	1052212.0	2.606718	Y
10	IC 140-50646/3	16.0	44.891139	4.8	959637.0	2.805696	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

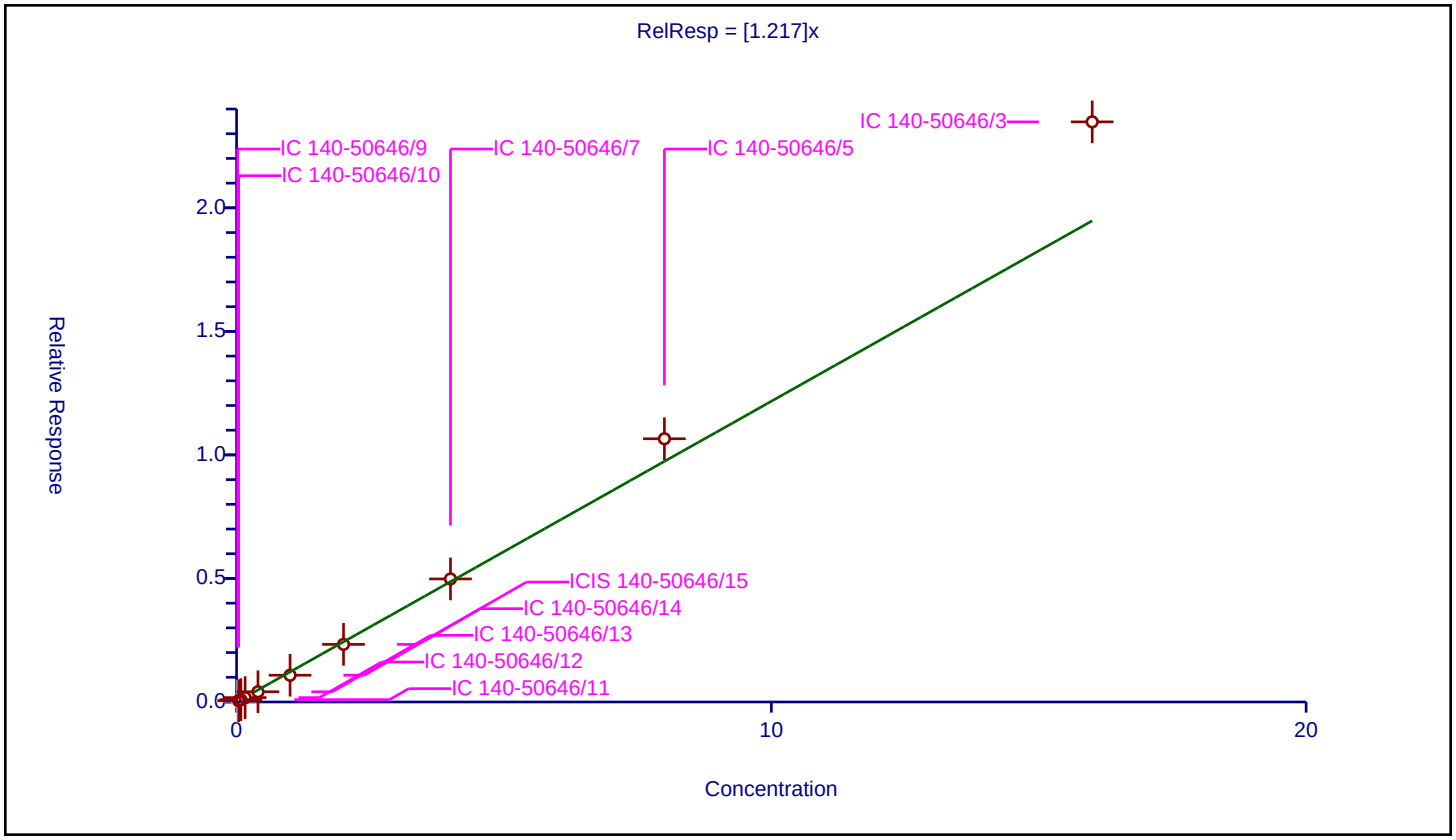
Curve Coefficients

Intercept:	0
Slope:	1.217

Error Coefficients

Standard Error:	1900000
Relative Standard Error:	11.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.038386	4.8	959848.0	1.919304	N
2	IC 140-50646/10	0.04	0.053254	4.8	904221.0	1.331356	Y
3	IC 140-50646/11	0.08	0.09484	4.8	857465.0	1.185494	Y
4	IC 140-50646/12	0.16	0.177329	4.8	847616.0	1.108308	Y
5	IC 140-50646/13	0.4	0.414396	4.8	885413.0	1.035991	Y
6	IC 140-50646/14	1.0	1.083411	4.8	894154.0	1.083411	Y
7	ICIS 140-50646/15	2.0	2.331984	4.8	934893.0	1.165992	Y
8	IC 140-50646/7	4.0	4.980391	4.8	1060151.0	1.245098	Y
9	IC 140-50646/5	8.0	10.654131	4.8	1052212.0	1.331766	Y
10	IC 140-50646/3	16.0	23.480228	4.8	959637.0	1.467514	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

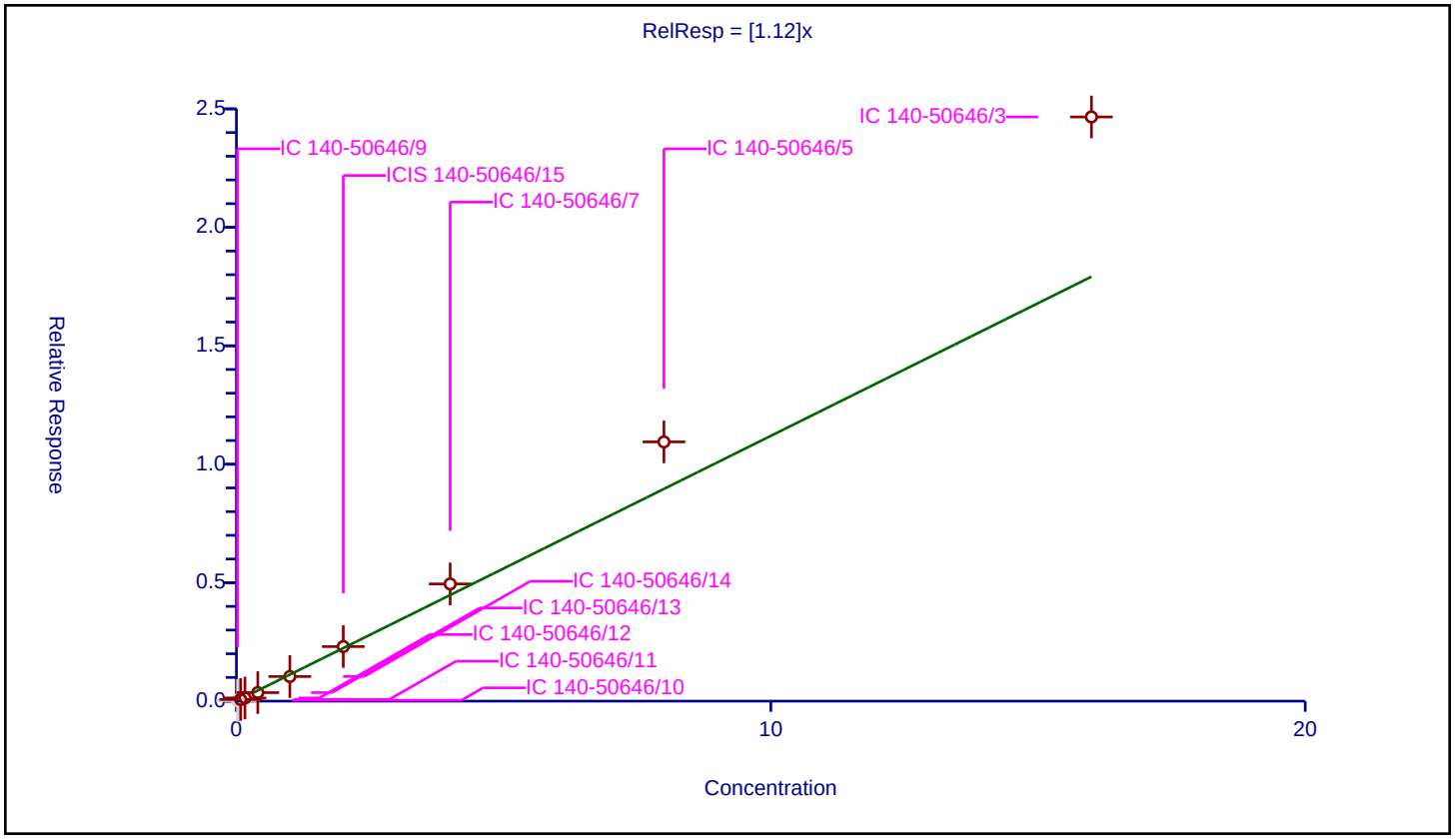
Curve Coefficients

Intercept:	0
Slope:	1.12

Error Coefficients

Standard Error:	2120000
Relative Standard Error:	22.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.947

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.023269	4.8	959848.0	1.163434	N
2	IC 140-50646/10	0.04	0.038768	4.8	904221.0	0.969188	N
3	IC 140-50646/11	0.08	0.070466	4.8	857465.0	0.880829	Y
4	IC 140-50646/12	0.16	0.134376	4.8	847616.0	0.83985	Y
5	IC 140-50646/13	0.4	0.36045	4.8	885413.0	0.901125	Y
6	IC 140-50646/14	1.0	1.039295	4.8	894154.0	1.039295	Y
7	ICIS 140-50646/15	2.0	2.302883	4.8	934893.0	1.151441	Y
8	IC 140-50646/7	4.0	4.947067	4.8	1060151.0	1.236767	Y
9	IC 140-50646/5	8.0	10.942612	4.8	1052212.0	1.367826	Y
10	IC 140-50646/3	16.0	24.659779	4.8	959637.0	1.541236	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

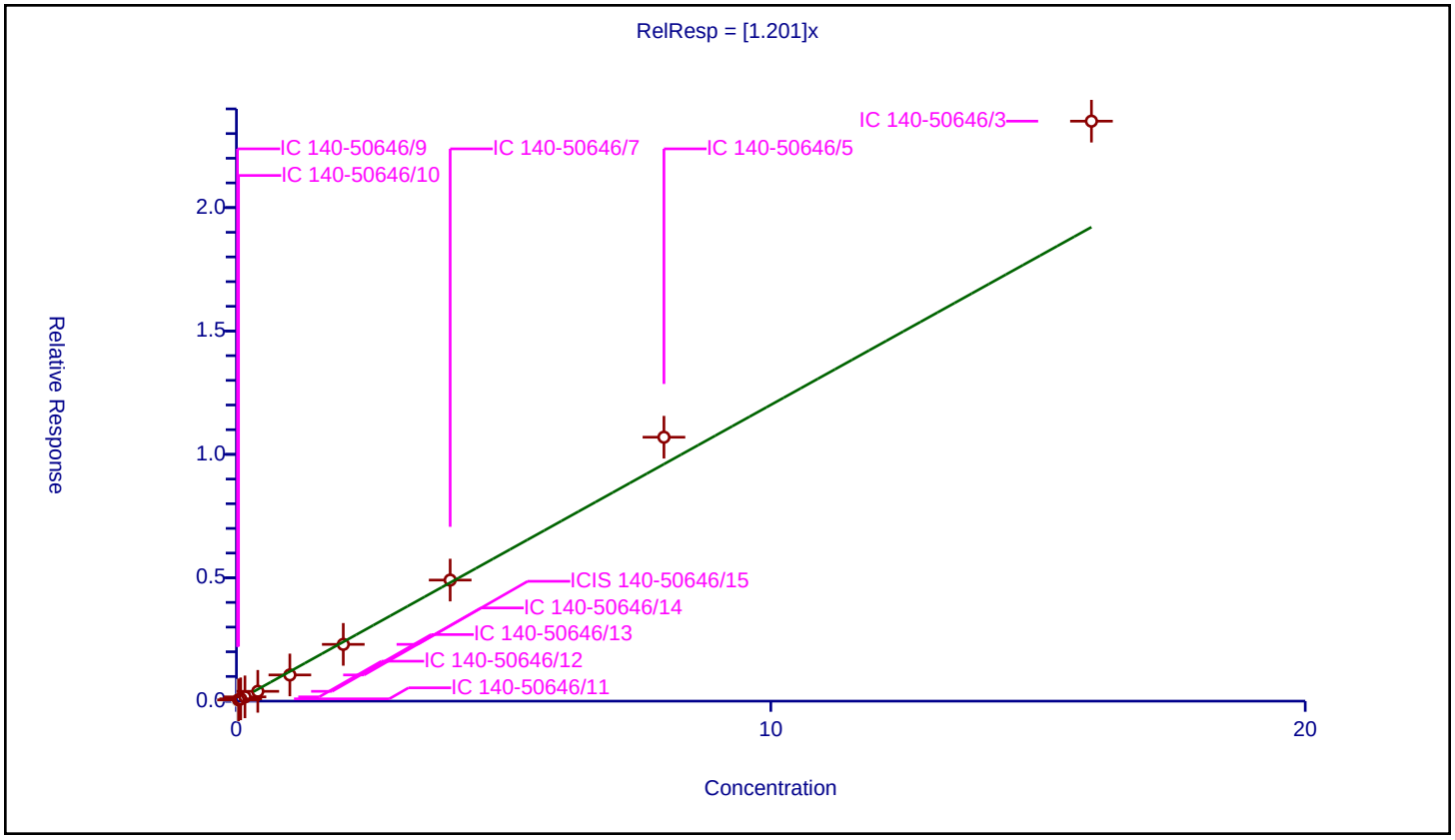
Curve Coefficients

Intercept:	0
Slope:	1.201

Error Coefficients

Standard Error:	1900000
Relative Standard Error:	12.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.036166	4.8	959848.0	1.808286	N
2	IC 140-50646/10	0.04	0.052548	4.8	904221.0	1.313705	Y
3	IC 140-50646/11	0.08	0.09353	4.8	857465.0	1.169121	Y
4	IC 140-50646/12	0.16	0.173388	4.8	847616.0	1.083675	Y
5	IC 140-50646/13	0.4	0.397802	4.8	885413.0	0.994505	Y
6	IC 140-50646/14	1.0	1.061401	4.8	894154.0	1.061401	Y
7	ICIS 140-50646/15	2.0	2.300362	4.8	934893.0	1.150181	Y
8	IC 140-50646/7	4.0	4.905476	4.8	1060151.0	1.226369	Y
9	IC 140-50646/5	8.0	10.695064	4.8	1052212.0	1.336883	Y
10	IC 140-50646/3	16.0	23.502932	4.8	959637.0	1.468933	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

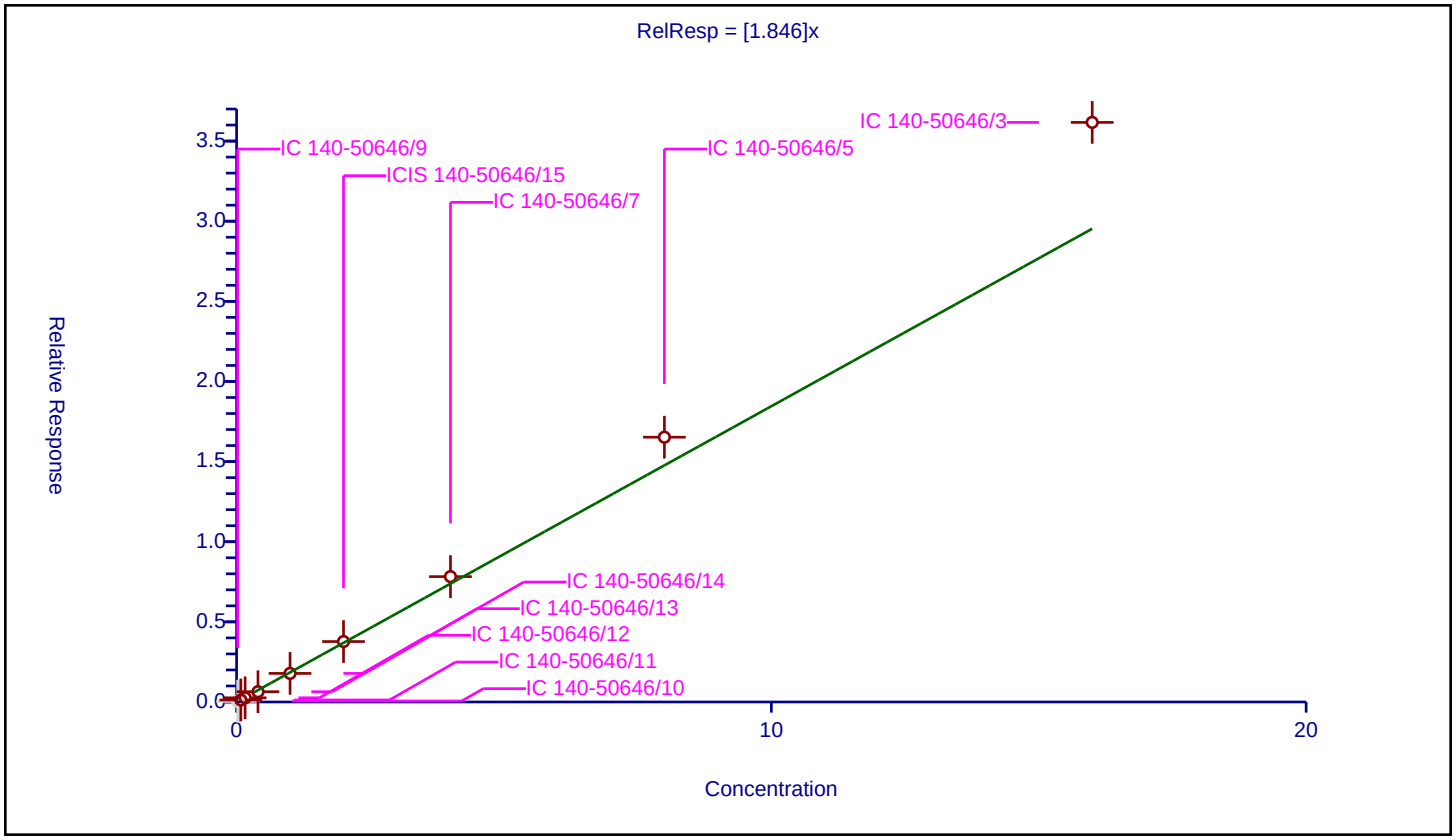
Curve Coefficients

Intercept:	0
Slope:	1.846

Error Coefficients

Standard Error:	3140000
Relative Standard Error:	13.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.039341	4.8	959848.0	1.967061	N
2	IC 140-50646/10	0.04	0.063786	4.8	904221.0	1.594654	N
3	IC 140-50646/11	0.08	0.125981	4.8	857465.0	1.574758	Y
4	IC 140-50646/12	0.16	0.2616	4.8	847616.0	1.634997	Y
5	IC 140-50646/13	0.4	0.641957	4.8	885413.0	1.604892	Y
6	IC 140-50646/14	1.0	1.782249	4.8	894154.0	1.782249	Y
7	ICIS 140-50646/15	2.0	3.772123	4.8	934893.0	1.886061	Y
8	IC 140-50646/7	4.0	7.822745	4.8	1060151.0	1.955686	Y
9	IC 140-50646/5	8.0	16.522646	4.8	1052212.0	2.065331	Y
10	IC 140-50646/3	16.0	36.165035	4.8	959637.0	2.260315	Y



Calibration / 1,2,3-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

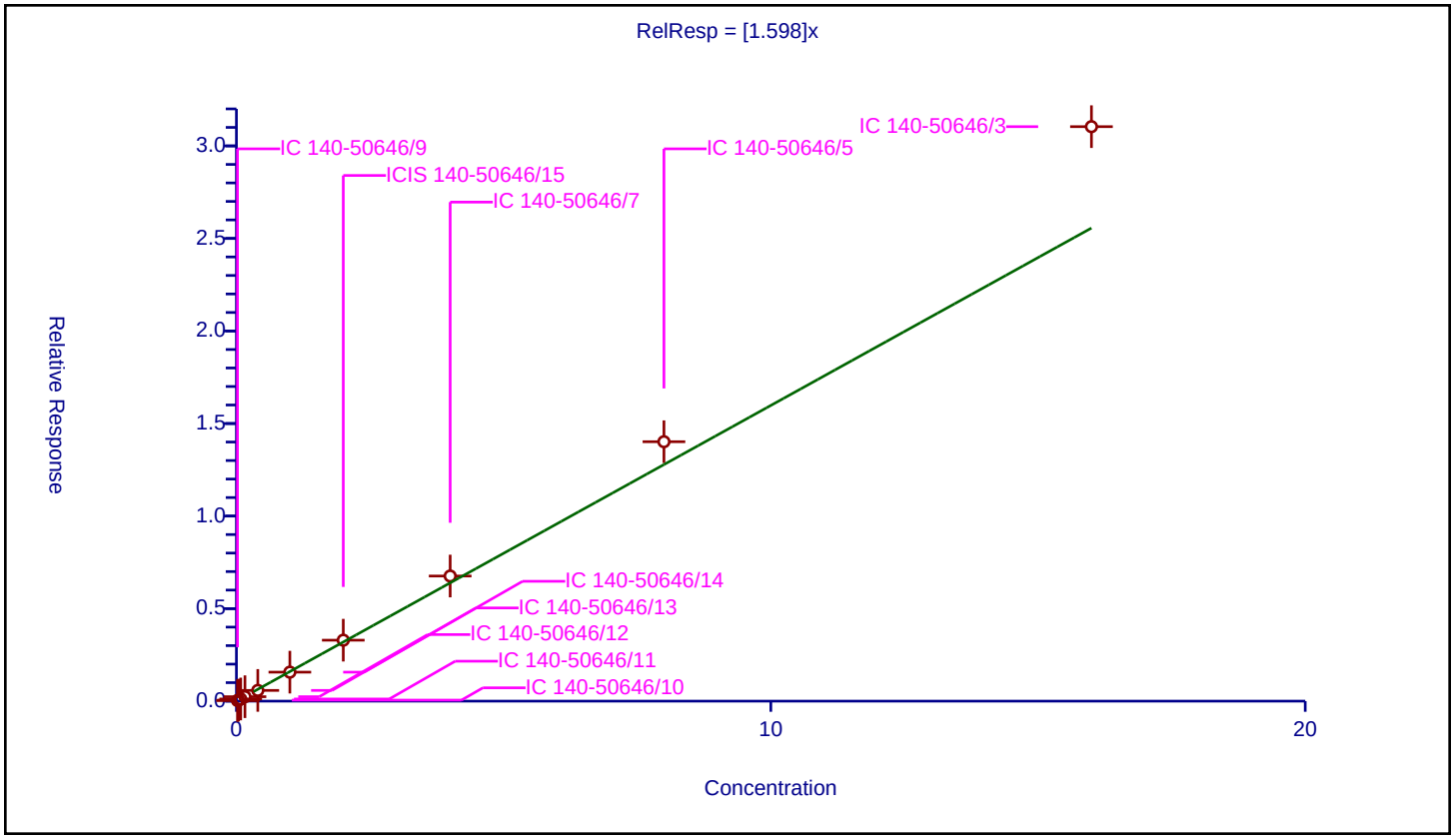
Curve Coefficients

Intercept:	0
Slope:	1.598

Error Coefficients

Standard Error:	2370000
Relative Standard Error:	10.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.032185	4.8	959848.0	1.609255	Y
2	IC 140-50646/10	0.04	0.055001	4.8	904221.0	1.375018	Y
3	IC 140-50646/11	0.08	0.116117	4.8	857465.0	1.451464	Y
4	IC 140-50646/12	0.16	0.239282	4.8	847616.0	1.495512	Y
5	IC 140-50646/13	0.4	0.579559	4.8	885413.0	1.448897	Y
6	IC 140-50646/14	1.0	1.567059	4.8	894154.0	1.567059	Y
7	ICIS 140-50646/15	2.0	3.293932	4.8	934893.0	1.646966	Y
8	IC 140-50646/7	4.0	6.759896	4.8	1060151.0	1.689974	Y
9	IC 140-50646/5	8.0	14.01766	4.8	1052212.0	1.752208	Y
10	IC 140-50646/3	16.0	31.040027	4.8	959637.0	1.940002	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

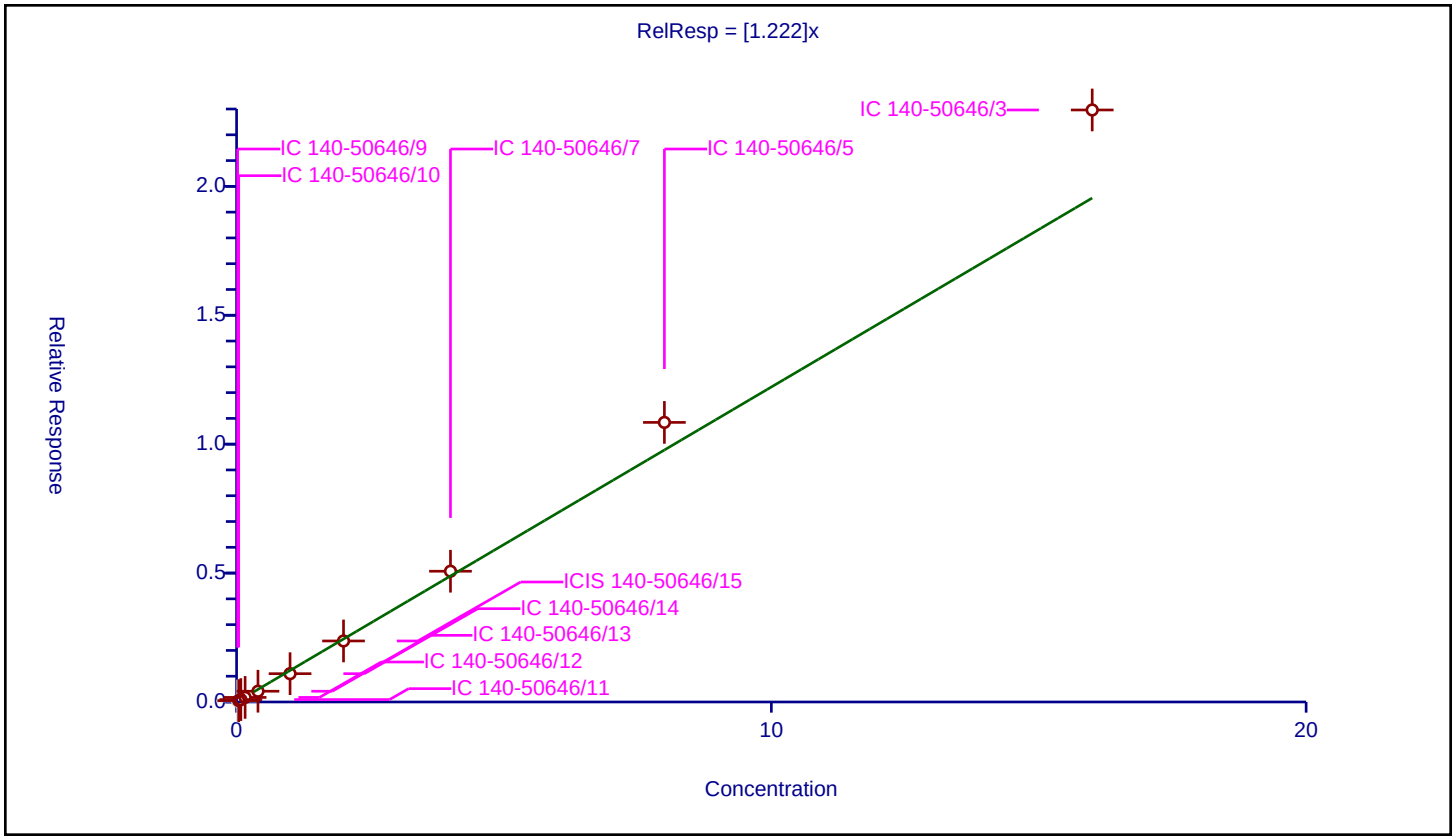
Curve Coefficients

Intercept:	0
Slope:	1.222

Error Coefficients

Standard Error:	1880000
Relative Standard Error:	10.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.036706	4.8	959848.0	1.835291	N
2	IC 140-50646/10	0.04	0.053382	4.8	904221.0	1.334541	Y
3	IC 140-50646/11	0.08	0.093474	4.8	857465.0	1.168421	Y
4	IC 140-50646/12	0.16	0.177635	4.8	847616.0	1.11022	Y
5	IC 140-50646/13	0.4	0.417145	4.8	885413.0	1.042862	Y
6	IC 140-50646/14	1.0	1.097551	4.8	894154.0	1.097551	Y
7	ICIS 140-50646/15	2.0	2.366768	4.8	934893.0	1.183384	Y
8	IC 140-50646/7	4.0	5.071474	4.8	1060151.0	1.267868	Y
9	IC 140-50646/5	8.0	10.8443	4.8	1052212.0	1.355537	Y
10	IC 140-50646/3	16.0	22.962648	4.8	959637.0	1.435165	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

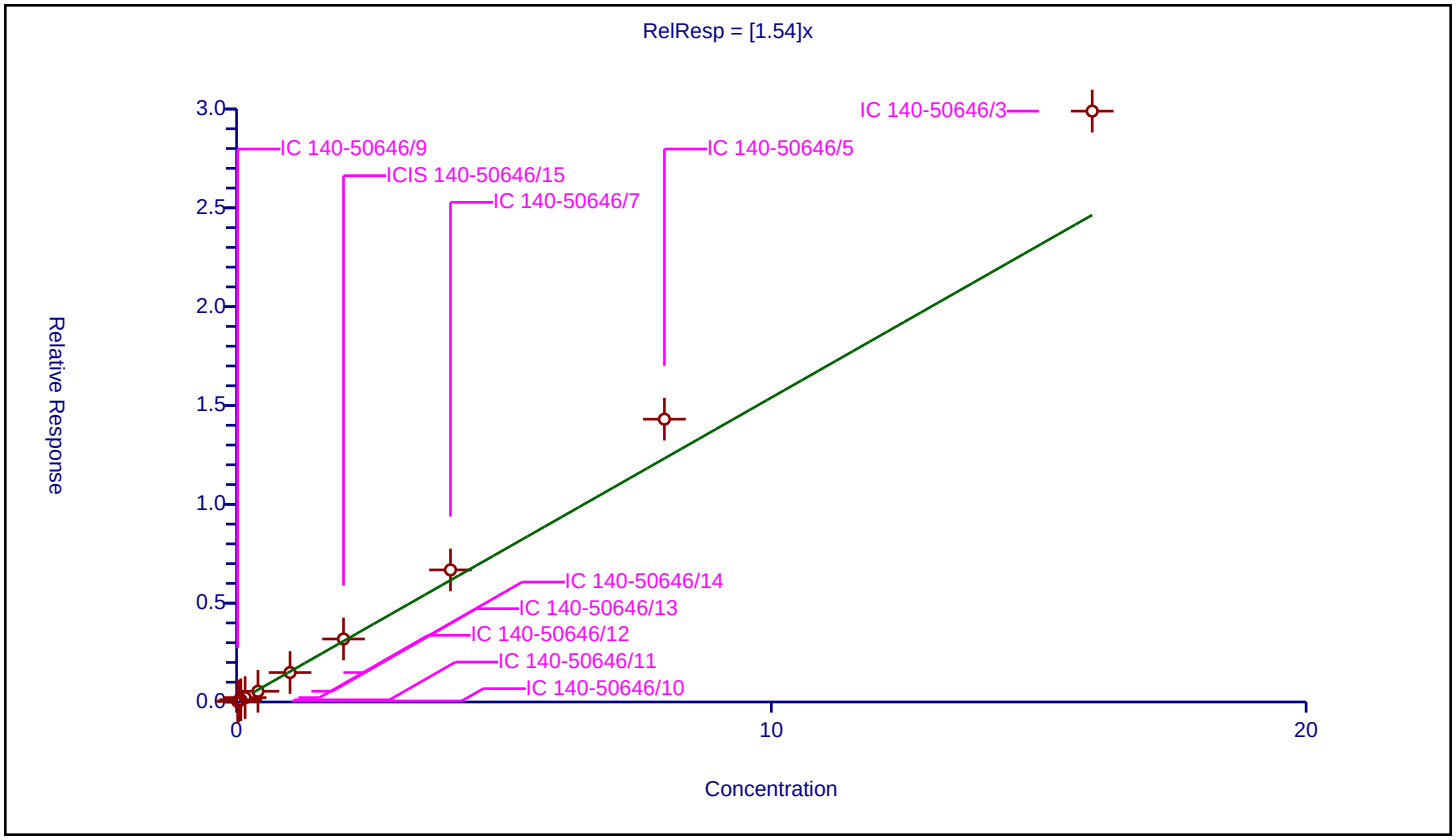
Curve Coefficients

Intercept:	0
Slope:	1.54

Error Coefficients

Standard Error:	2310000
Relative Standard Error:	12.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.03094	4.8	959848.0	1.546995	Y
2	IC 140-50646/10	0.04	0.053111	4.8	904221.0	1.327773	Y
3	IC 140-50646/11	0.08	0.109366	4.8	857465.0	1.367076	Y
4	IC 140-50646/12	0.16	0.222559	4.8	847616.0	1.390995	Y
5	IC 140-50646/13	0.4	0.542461	4.8	885413.0	1.356154	Y
6	IC 140-50646/14	1.0	1.489542	4.8	894154.0	1.489542	Y
7	ICIS 140-50646/15	2.0	3.187421	4.8	934893.0	1.593711	Y
8	IC 140-50646/7	4.0	6.681477	4.8	1060151.0	1.670369	Y
9	IC 140-50646/5	8.0	14.308193	4.8	1052212.0	1.788524	Y
10	IC 140-50646/3	16.0	29.892793	4.8	959637.0	1.8683	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

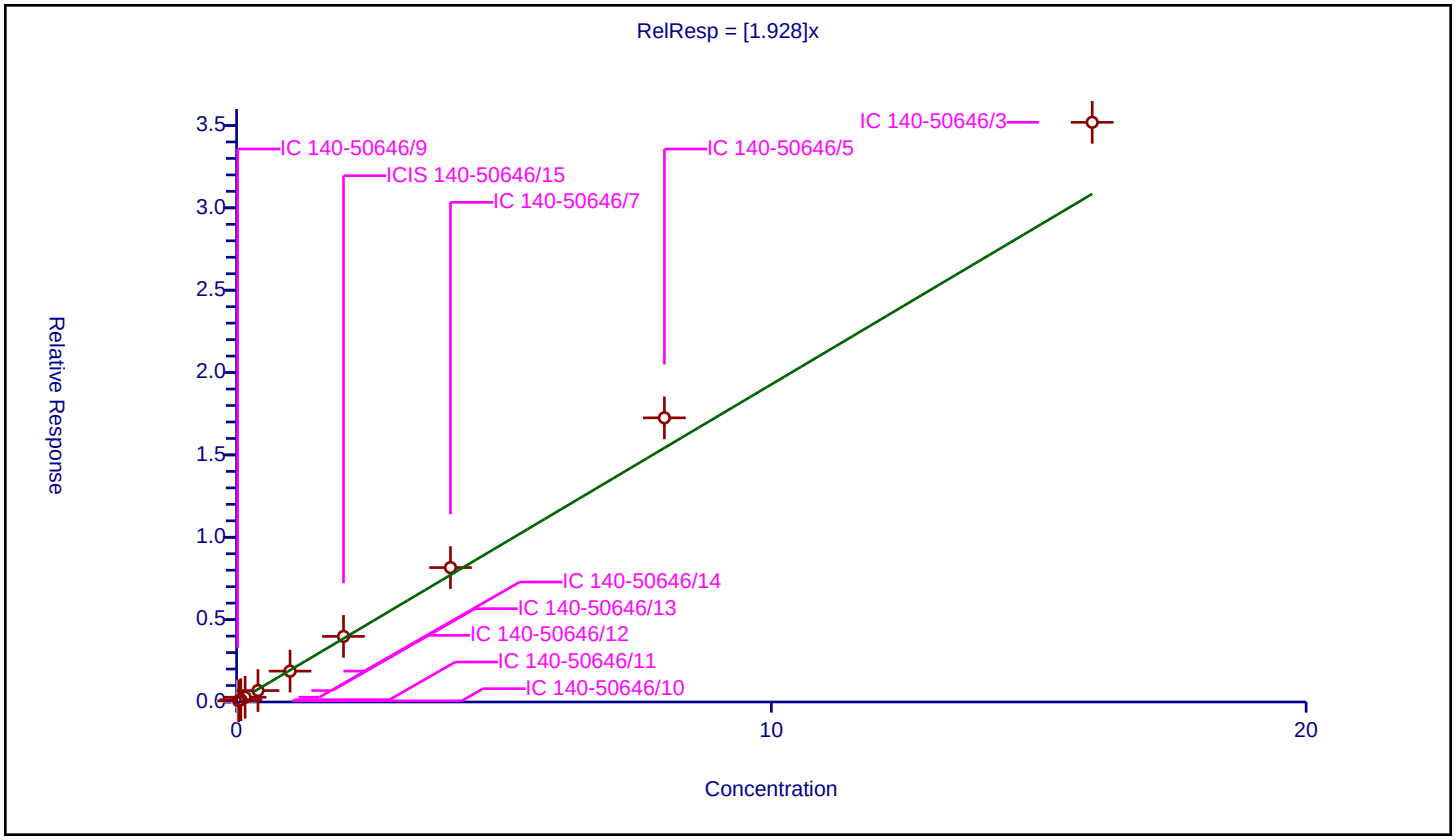
Curve Coefficients

Intercept:	0
Slope:	1.928

Error Coefficients

Standard Error:	2910000
Relative Standard Error:	9.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.047758	4.8	959848.0	2.387878	N
2	IC 140-50646/10	0.04	0.072073	4.8	904221.0	1.801816	Y
3	IC 140-50646/11	0.08	0.139589	4.8	857465.0	1.744864	Y
4	IC 140-50646/12	0.16	0.289575	4.8	847616.0	1.809841	Y
5	IC 140-50646/13	0.4	0.694125	4.8	885413.0	1.735312	Y
6	IC 140-50646/14	1.0	1.873234	4.8	894154.0	1.873234	Y
7	ICIS 140-50646/15	2.0	3.981807	4.8	934893.0	1.990903	Y
8	IC 140-50646/7	4.0	8.159721	4.8	1060151.0	2.03993	Y
9	IC 140-50646/5	8.0	17.251255	4.8	1052212.0	2.156407	Y
10	IC 140-50646/3	16.0	35.191932	4.8	959637.0	2.199496	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

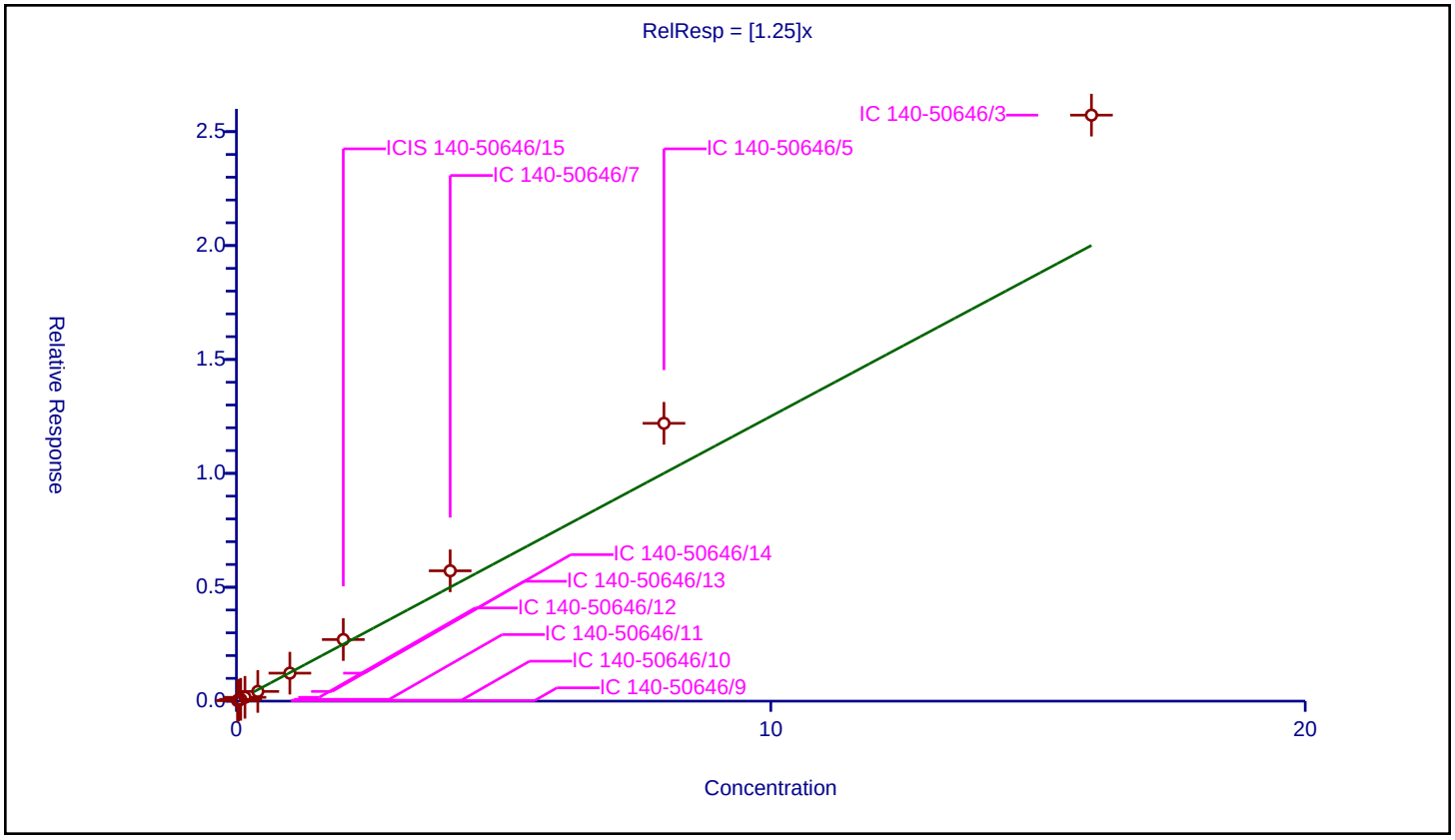
Curve Coefficients

Intercept:	0
Slope:	1.25

Error Coefficients

Standard Error:	1990000
Relative Standard Error:	17.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.965

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.024579	4.8	959848.0	1.228945	Y
2	IC 140-50646/10	0.04	0.040503	4.8	904221.0	1.012584	Y
3	IC 140-50646/11	0.08	0.080279	4.8	857465.0	1.003493	Y
4	IC 140-50646/12	0.16	0.167861	4.8	847616.0	1.049131	Y
5	IC 140-50646/13	0.4	0.426703	4.8	885413.0	1.066756	Y
6	IC 140-50646/14	1.0	1.228358	4.8	894154.0	1.228358	Y
7	ICIS 140-50646/15	2.0	2.704054	4.8	934893.0	1.352027	Y
8	IC 140-50646/7	4.0	5.721641	4.8	1060151.0	1.43041	Y
9	IC 140-50646/5	8.0	12.197285	4.8	1052212.0	1.524661	Y
10	IC 140-50646/3	16.0	25.726343	4.8	959637.0	1.607896	Y



Calibration / Undecane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

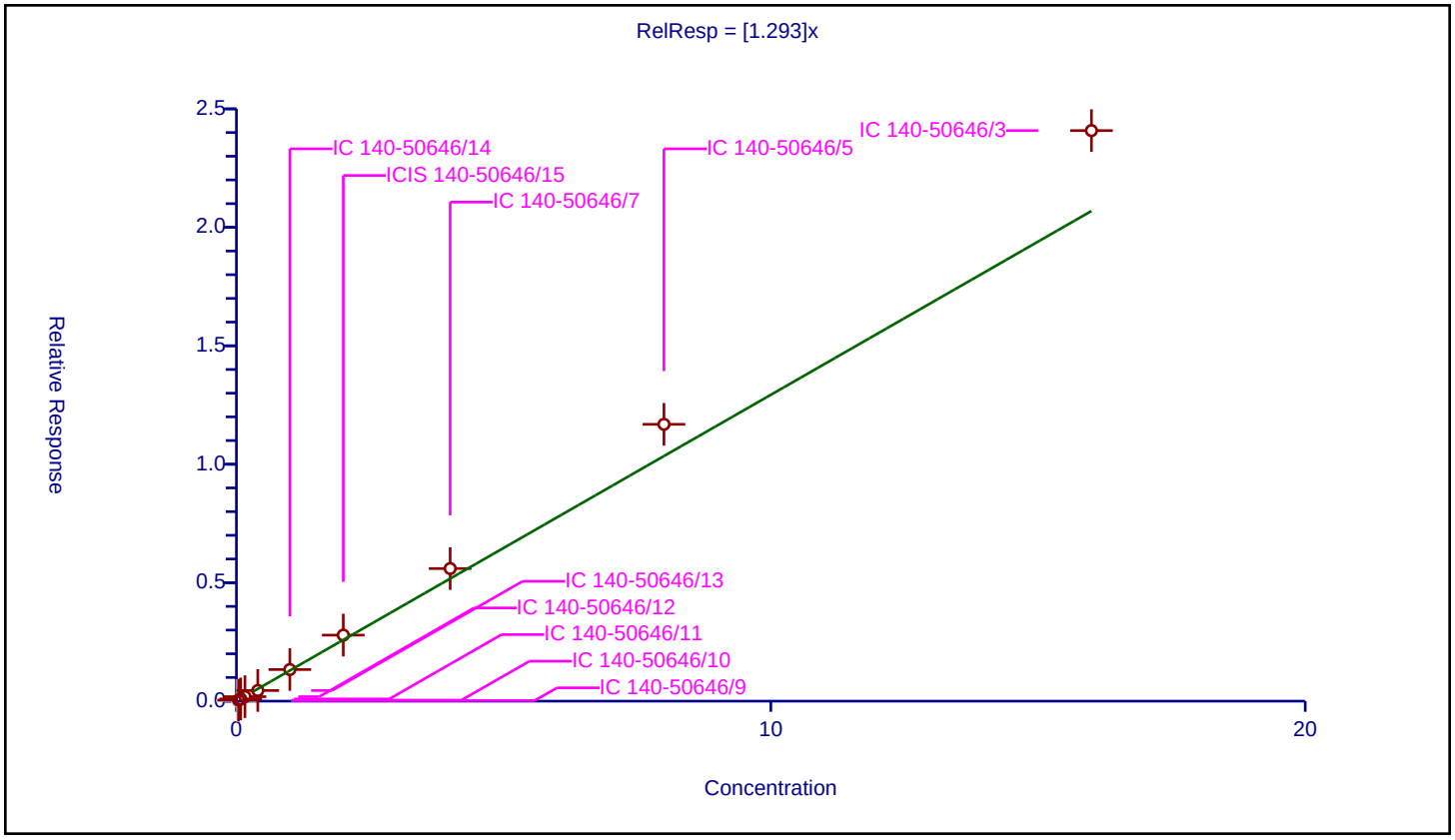
Curve Coefficients

Intercept:	0
Slope:	1.293

Error Coefficients

Standard Error:	1990000
Relative Standard Error:	12.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.024169	4.8	959848.0	1.208441	N
2	IC 140-50646/10	0.04	0.04285	4.8	904221.0	1.071243	Y
3	IC 140-50646/11	0.08	0.093239	4.8	857465.0	1.165482	Y
4	IC 140-50646/12	0.16	0.189658	4.8	847616.0	1.18536	Y
5	IC 140-50646/13	0.4	0.449206	4.8	885413.0	1.123015	Y
6	IC 140-50646/14	1.0	1.334052	4.8	894154.0	1.334052	Y
7	ICIS 140-50646/15	2.0	2.786809	4.8	934893.0	1.393404	Y
8	IC 140-50646/7	4.0	5.59684	4.8	1060151.0	1.39921	Y
9	IC 140-50646/5	8.0	11.685672	4.8	1052212.0	1.460709	Y
10	IC 140-50646/3	16.0	24.083387	4.8	959637.0	1.505212	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

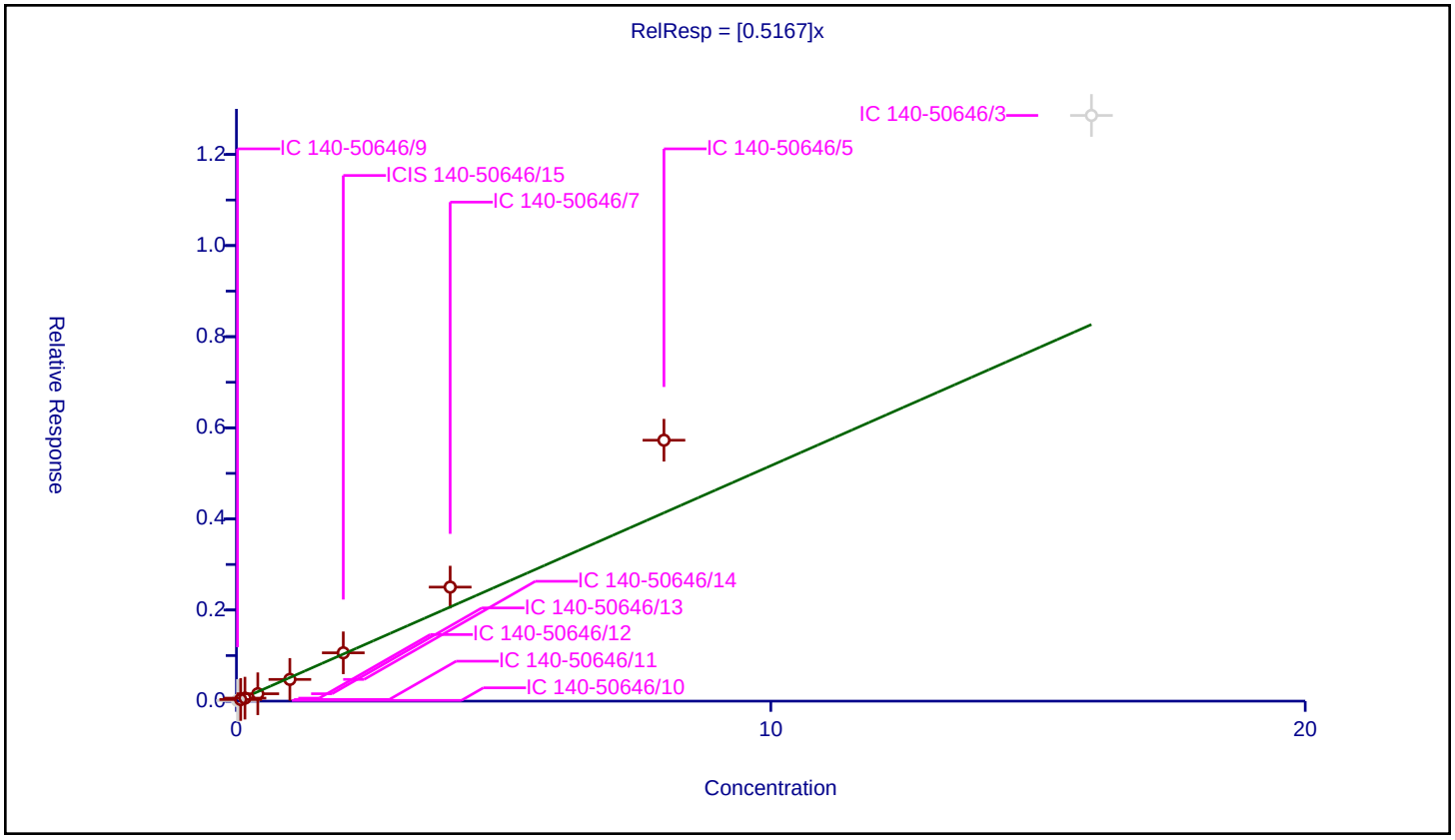
Curve Coefficients

Intercept:	0
Slope:	0.5167

Error Coefficients

Standard Error:	568000
Relative Standard Error:	22.5
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.943

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.013557	4.8	959848.0	0.677857	N
2	IC 140-50646/10	0.04	0.016844	4.8	904221.0	0.421092	N
3	IC 140-50646/11	0.08	0.036151	4.8	857465.0	0.45189	Y
4	IC 140-50646/12	0.16	0.065792	4.8	847616.0	0.4112	Y
5	IC 140-50646/13	0.4	0.162023	4.8	885413.0	0.405058	Y
6	IC 140-50646/14	1.0	0.476761	4.8	894154.0	0.476761	Y
7	ICIS 140-50646/15	2.0	1.060572	4.8	934893.0	0.530286	Y
8	IC 140-50646/7	4.0	2.503179	4.8	1060151.0	0.625795	Y
9	IC 140-50646/5	8.0	5.727504	4.8	1052212.0	0.715938	Y
10	IC 140-50646/3	16.0	12.856356	4.8	959637.0	0.803522	N



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

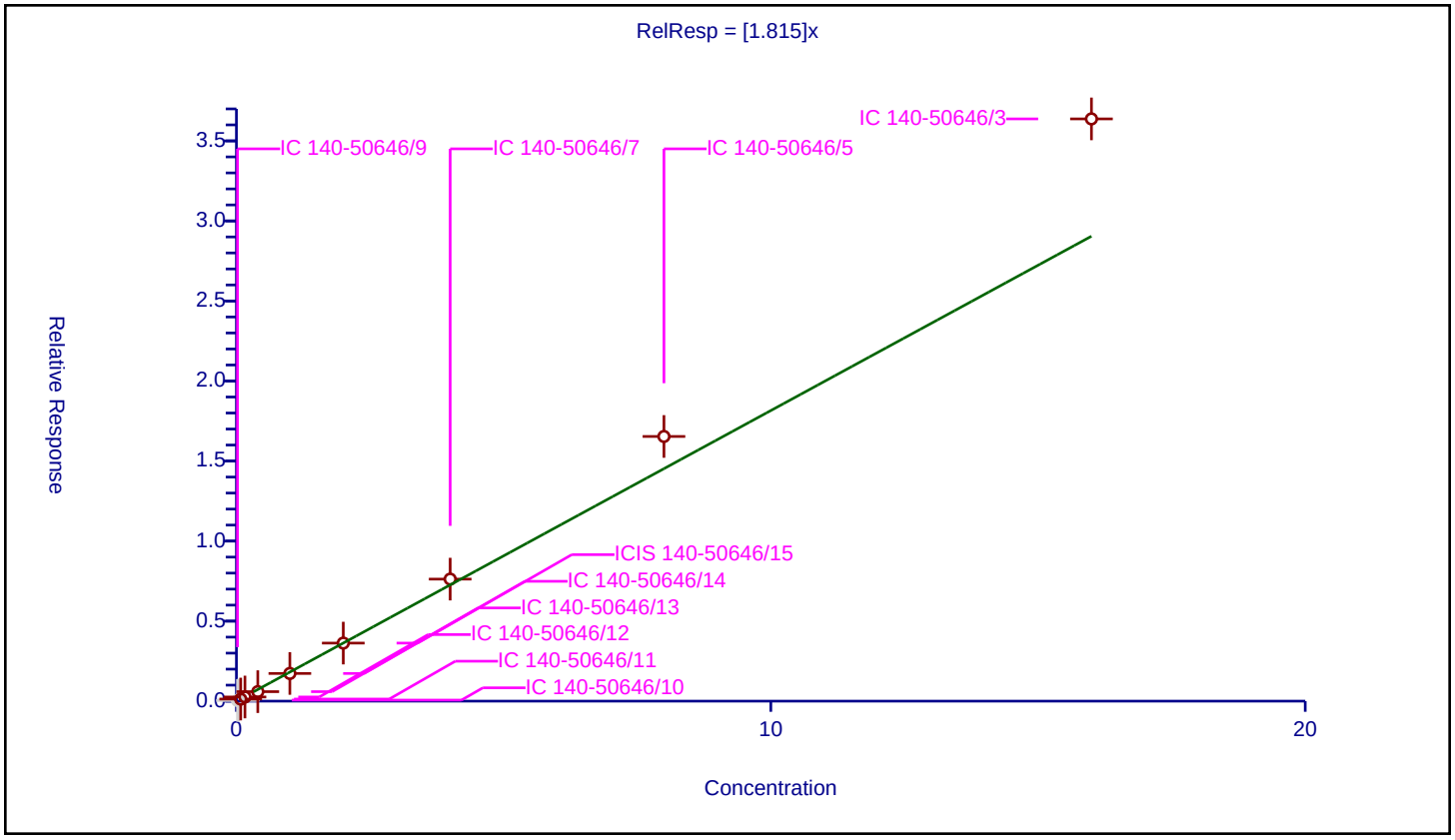
Curve Coefficients

Intercept:	0
Slope:	1.815

Error Coefficients

Standard Error:	3150000
Relative Standard Error:	14.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.044892	4.8	959848.0	2.244605	N
2	IC 140-50646/10	0.04	0.065442	4.8	904221.0	1.63606	N
3	IC 140-50646/11	0.08	0.130504	4.8	857465.0	1.631297	Y
4	IC 140-50646/12	0.16	0.259368	4.8	847616.0	1.621052	Y
5	IC 140-50646/13	0.4	0.592705	4.8	885413.0	1.481763	Y
6	IC 140-50646/14	1.0	1.728948	4.8	894154.0	1.728948	Y
7	ICIS 140-50646/15	2.0	3.626684	4.8	934893.0	1.813342	Y
8	IC 140-50646/7	4.0	7.623719	4.8	1060151.0	1.90593	Y
9	IC 140-50646/5	8.0	16.535136	4.8	1052212.0	2.066892	Y
10	IC 140-50646/3	16.0	36.374004	4.8	959637.0	2.273375	Y



Calibration / Dodecane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

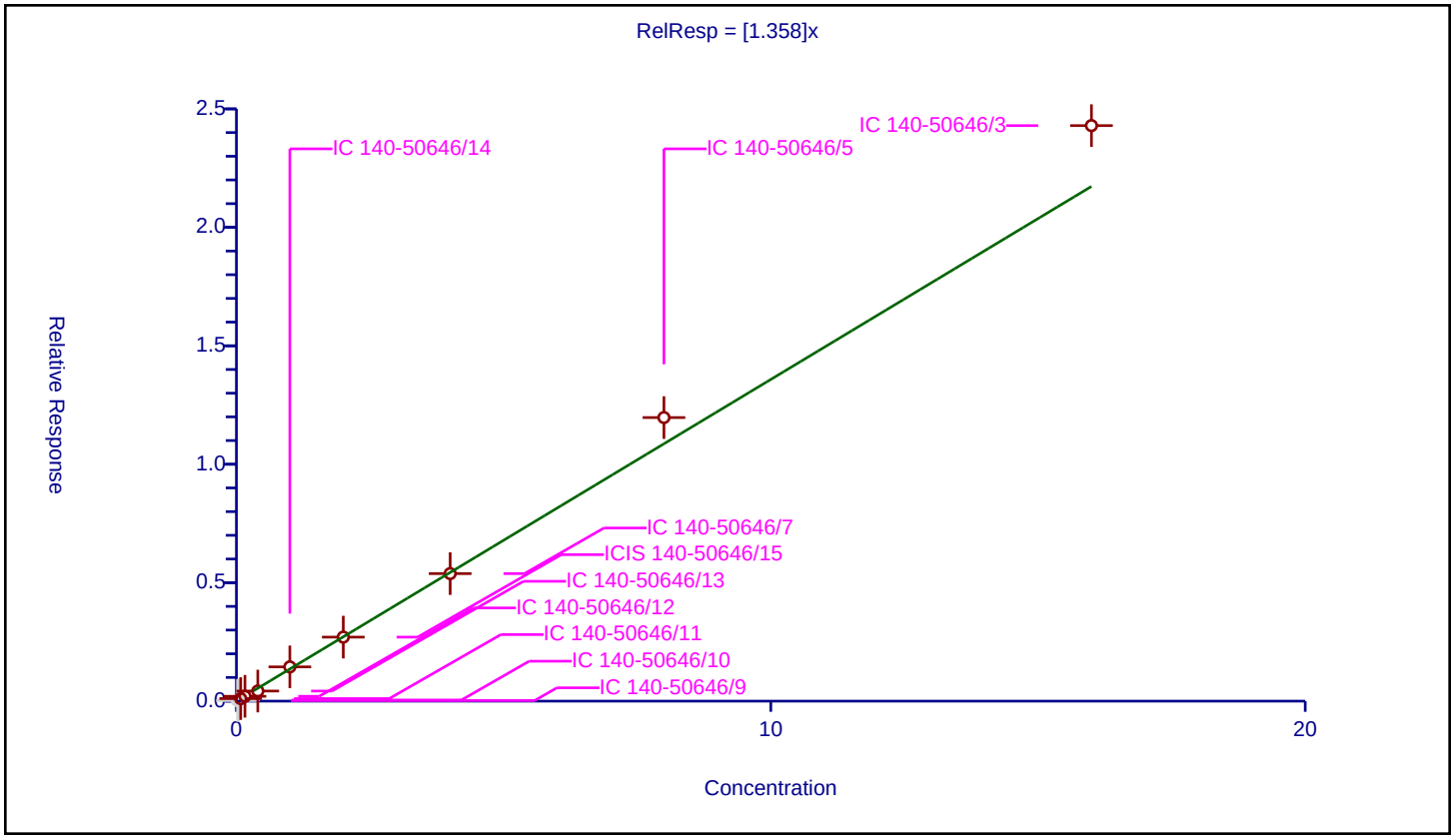
Curve Coefficients

Intercept:	0
Slope:	1.358

Error Coefficients

Standard Error:	2150000
Relative Standard Error:	10.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.025804	4.8	959848.0	1.290204	N
2	IC 140-50646/10	0.04	0.047643	4.8	904221.0	1.19108	N
3	IC 140-50646/11	0.08	0.108633	4.8	857465.0	1.35791	Y
4	IC 140-50646/12	0.16	0.205055	4.8	847616.0	1.281594	Y
5	IC 140-50646/13	0.4	0.426421	4.8	885413.0	1.066052	Y
6	IC 140-50646/14	1.0	1.44592	4.8	894154.0	1.44592	Y
7	ICIS 140-50646/15	2.0	2.702704	4.8	934893.0	1.351352	Y
8	IC 140-50646/7	4.0	5.38328	4.8	1060151.0	1.34582	Y
9	IC 140-50646/5	8.0	11.97127	4.8	1052212.0	1.496409	Y
10	IC 140-50646/3	16.0	24.294436	4.8	959637.0	1.518402	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

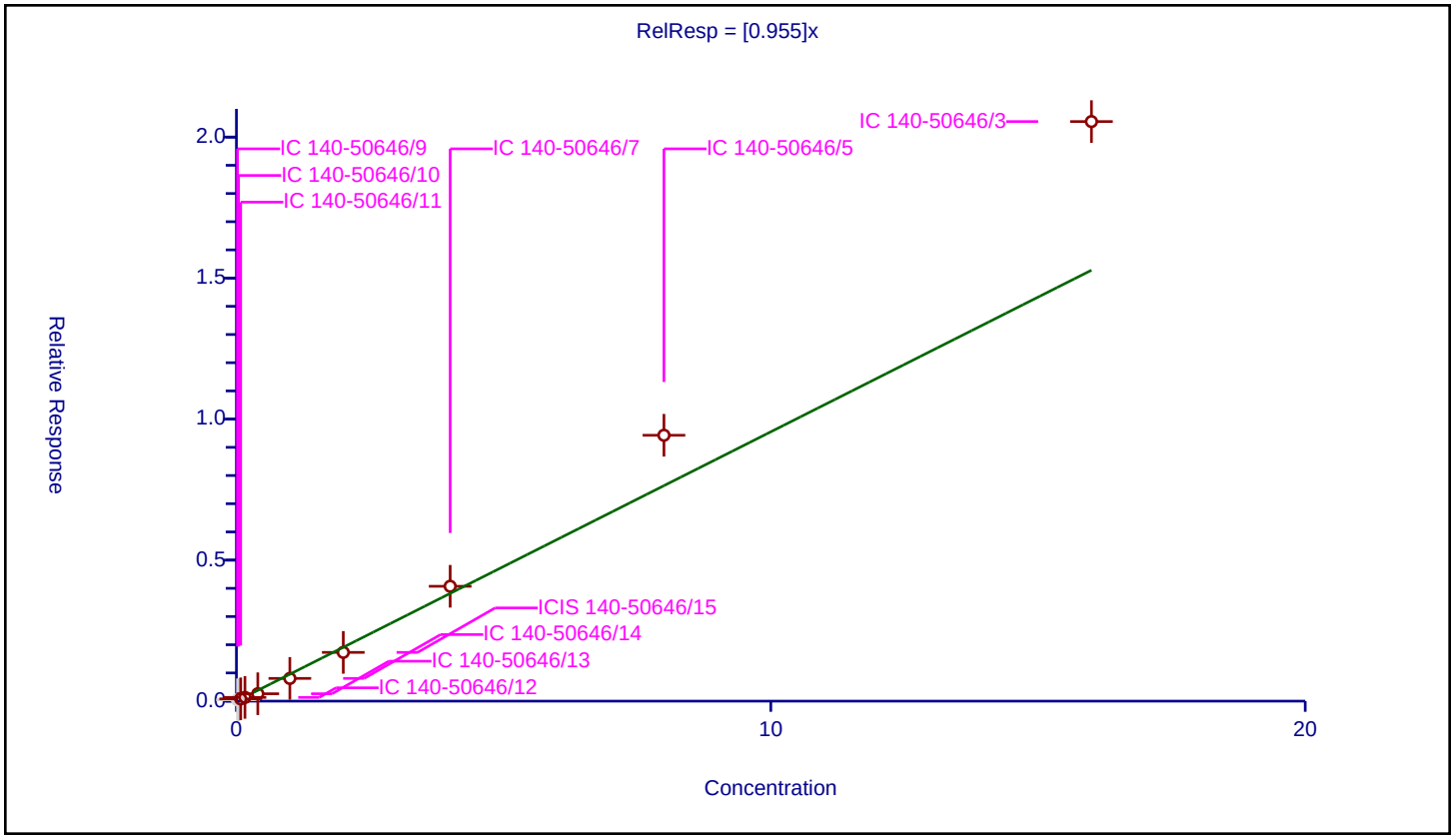
Curve Coefficients

Intercept:	0
Slope:	0.955

Error Coefficients

Standard Error:	1780000
Relative Standard Error:	21.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.944

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.046477	4.8	959848.0	2.323868	N
2	IC 140-50646/10	0.04	0.050531	4.8	904221.0	1.263275	N
3	IC 140-50646/11	0.08	0.080873	4.8	857465.0	1.01091	Y
4	IC 140-50646/12	0.16	0.13151	4.8	847616.0	0.821941	Y
5	IC 140-50646/13	0.4	0.26225	4.8	885413.0	0.655626	Y
6	IC 140-50646/14	1.0	0.805912	4.8	894154.0	0.805912	Y
7	ICIS 140-50646/15	2.0	1.728742	4.8	934893.0	0.864371	Y
8	IC 140-50646/7	4.0	4.073157	4.8	1060151.0	1.018289	Y
9	IC 140-50646/5	8.0	9.427513	4.8	1052212.0	1.178439	Y
10	IC 140-50646/3	16.0	20.550366	4.8	959637.0	1.284398	Y



Calibration / Naphthalene

Curve Type:	Linear
Weighting:	Conc
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

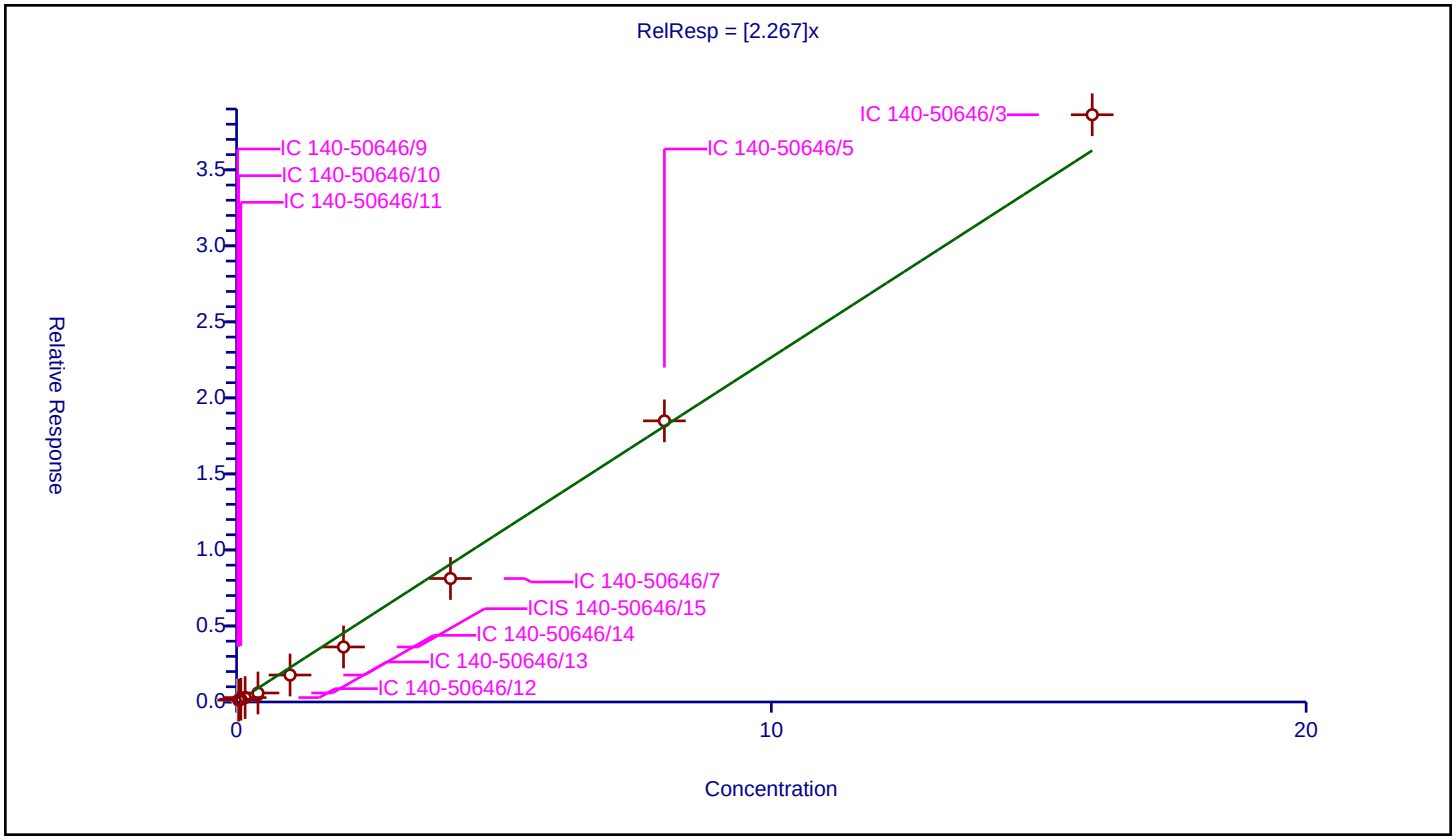
Curve Coefficients

Intercept:	0
Slope:	2.267

Error Coefficients

Standard Error:	3160000
Relative Standard Error:	22.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.12825	4.8	959848.0	6.412515	N
2	IC 140-50646/10	0.04	0.123357	4.8	904221.0	3.083936	Y
3	IC 140-50646/11	0.08	0.181954	4.8	857465.0	2.274425	Y
4	IC 140-50646/12	0.16	0.289461	4.8	847616.0	1.809133	Y
5	IC 140-50646/13	0.4	0.591404	4.8	885413.0	1.47851	Y
6	IC 140-50646/14	1.0	1.774835	4.8	894154.0	1.774835	Y
7	ICIS 140-50646/15	2.0	3.618818	4.8	934893.0	1.809409	Y
8	IC 140-50646/7	4.0	8.12114	4.8	1060151.0	2.030285	Y
9	IC 140-50646/5	8.0	18.489656	4.8	1052212.0	2.311207	Y
10	IC 140-50646/3	16.0	38.622999	4.8	959637.0	2.413937	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

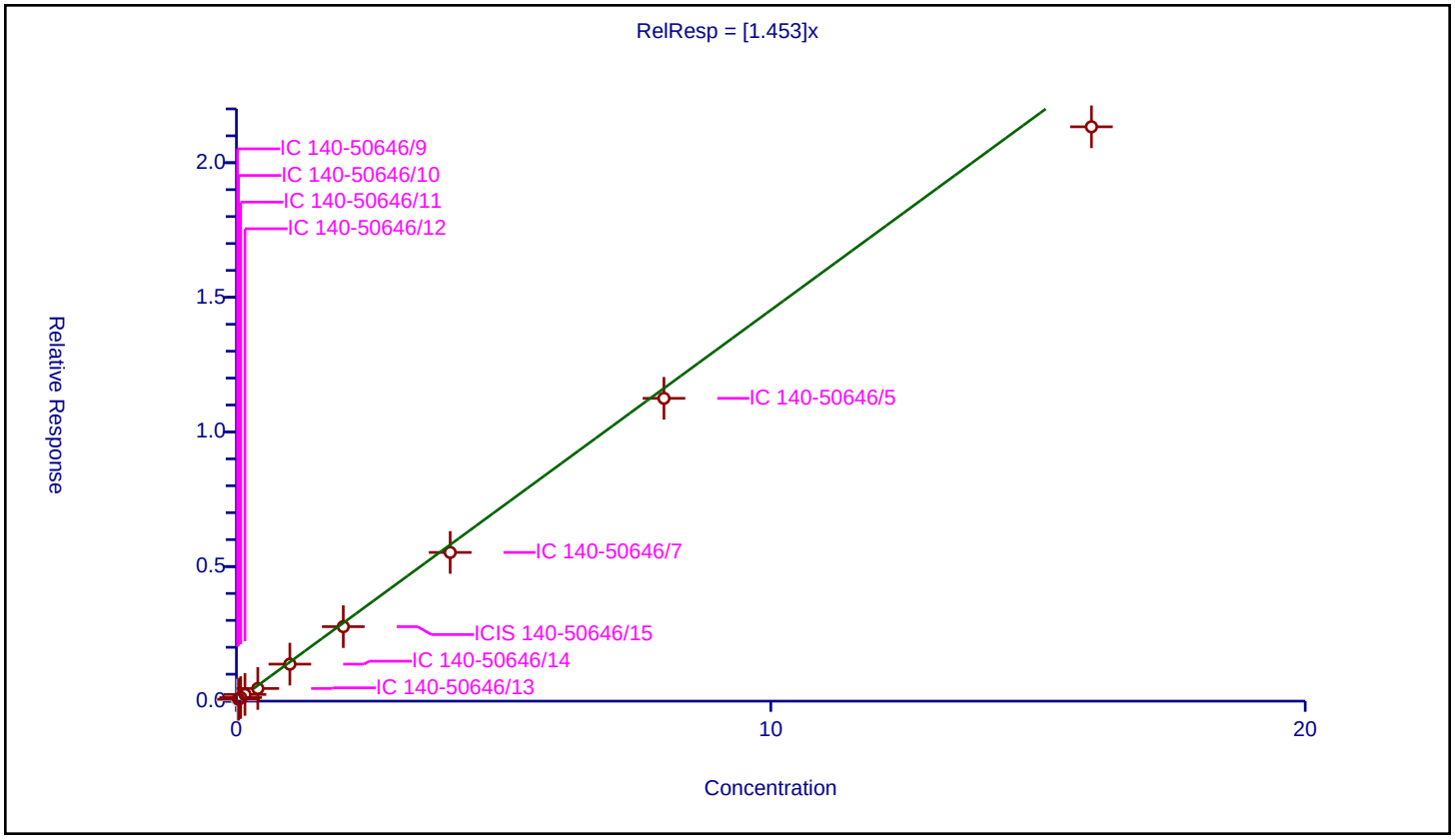
Curve Coefficients

Intercept:	0
Slope:	1.453

Error Coefficients

Standard Error:	1810000
Relative Standard Error:	13.2
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.044092	4.8	959848.0	2.204599	N
2	IC 140-50646/10	0.04	0.072911	4.8	904221.0	1.822784	Y
3	IC 140-50646/11	0.08	0.131926	4.8	857465.0	1.64907	Y
4	IC 140-50646/12	0.16	0.247935	4.8	847616.0	1.549593	Y
5	IC 140-50646/13	0.4	0.469226	4.8	885413.0	1.173066	Y
6	IC 140-50646/14	1.0	1.374985	4.8	894154.0	1.374985	Y
7	ICIS 140-50646/15	2.0	2.766877	4.8	934893.0	1.383439	Y
8	IC 140-50646/7	4.0	5.524529	4.8	1060151.0	1.381132	Y
9	IC 140-50646/5	8.0	11.248527	4.8	1052212.0	1.406066	Y
10	IC 140-50646/3	16.0	21.335112	4.8	959637.0	1.333445	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

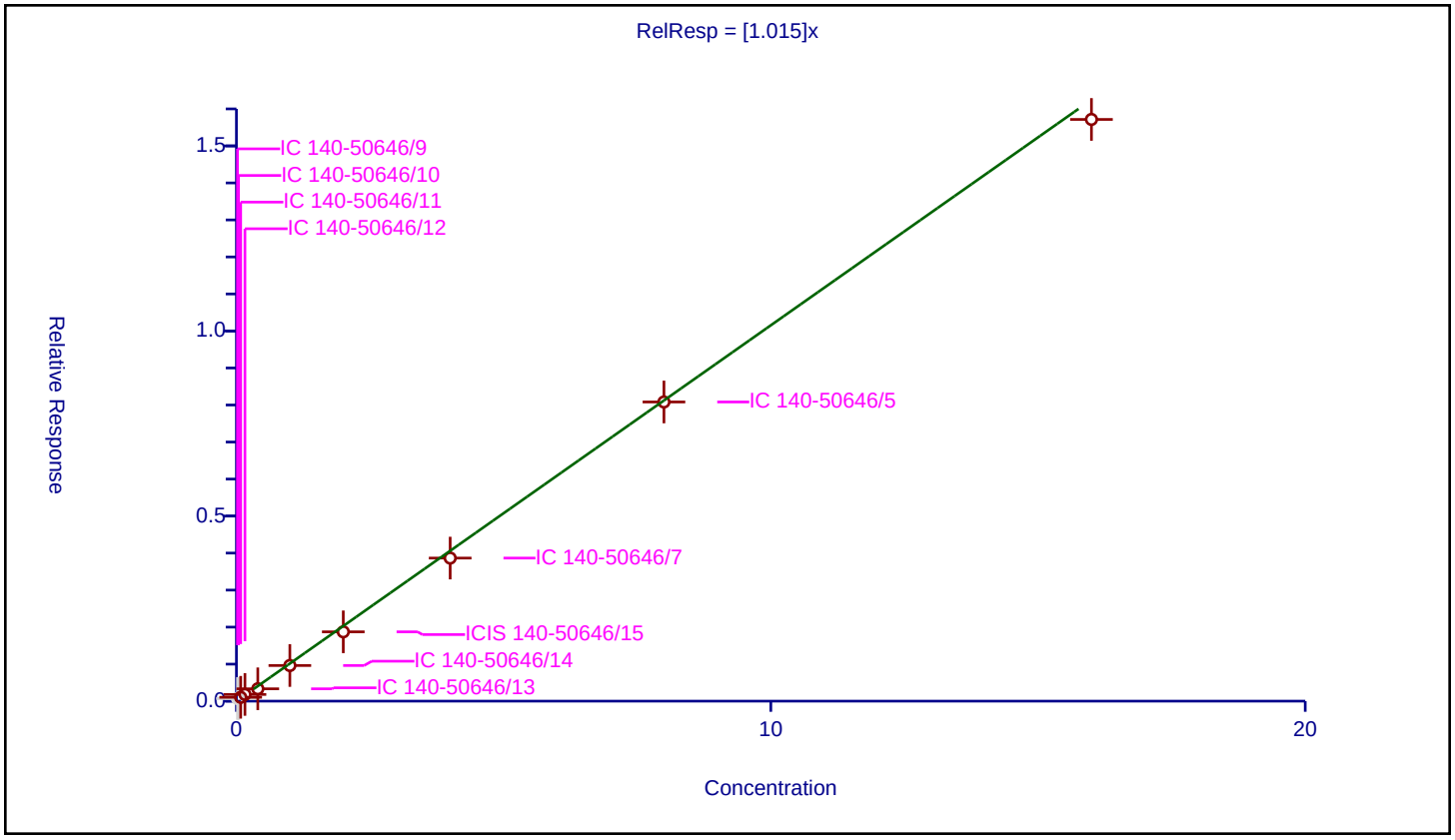
Curve Coefficients

Intercept:	0
Slope:	1.015

Error Coefficients

Standard Error:	1410000
Relative Standard Error:	14.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.02	0.072176	4.8	959848.0	3.608821	N
2	IC 140-50646/10	0.04	0.072582	4.8	904221.0	1.814556	N
3	IC 140-50646/11	0.08	0.104166	4.8	857465.0	1.302071	Y
4	IC 140-50646/12	0.16	0.180693	4.8	847616.0	1.129332	Y
5	IC 140-50646/13	0.4	0.333545	4.8	885413.0	0.833862	Y
6	IC 140-50646/14	1.0	0.962352	4.8	894154.0	0.962352	Y
7	ICIS 140-50646/15	2.0	1.872918	4.8	934893.0	0.936459	Y
8	IC 140-50646/7	4.0	3.865025	4.8	1060151.0	0.966256	Y
9	IC 140-50646/5	8.0	8.081877	4.8	1052212.0	1.010235	Y
10	IC 140-50646/3	16.0	15.714932	4.8	959637.0	0.982183	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

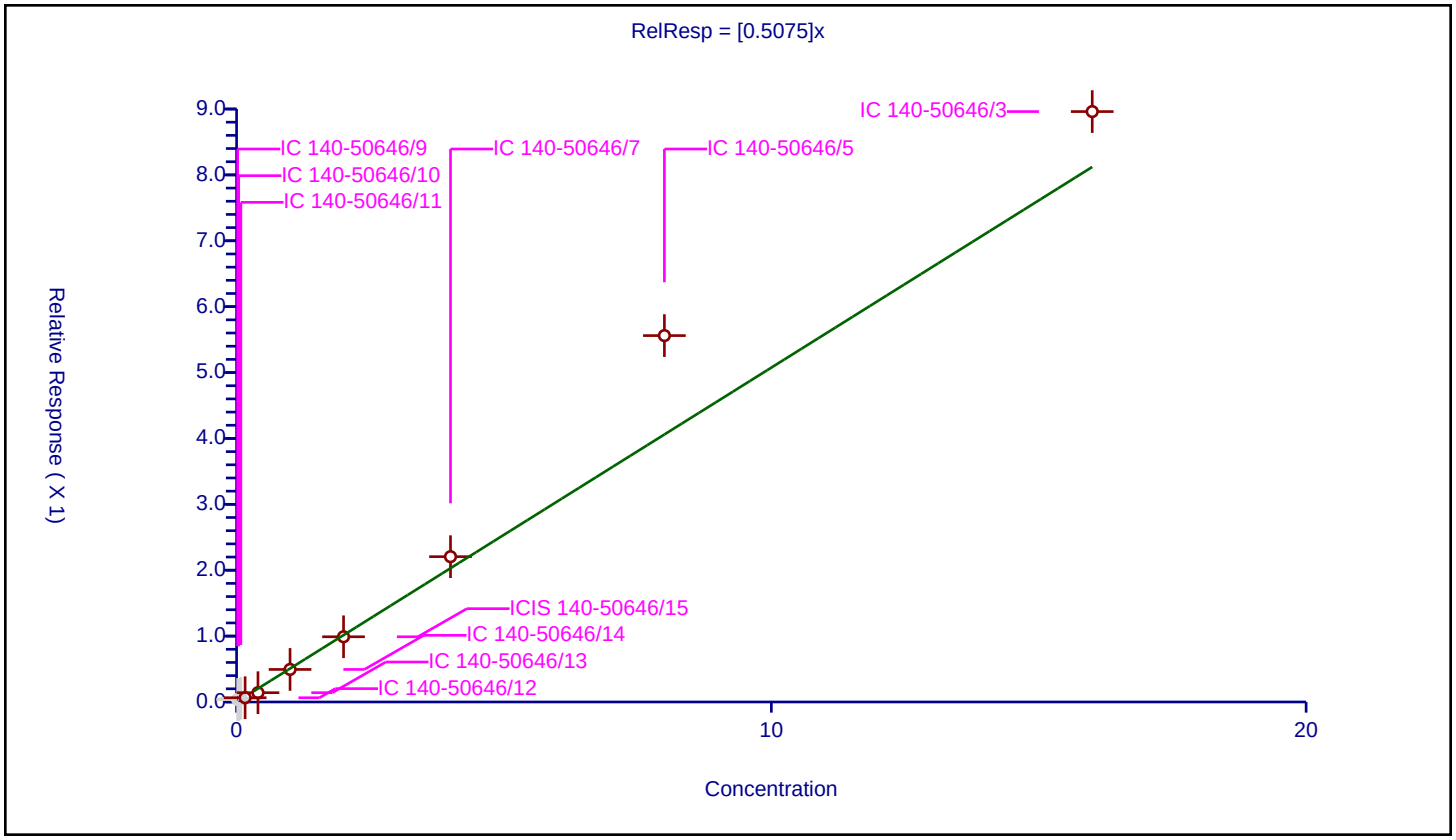
Curve Coefficients

Intercept:	0
Slope:	0.5075

Error Coefficients

Standard Error:	911000
Relative Standard Error:	22.0
Correlation Coefficient:	0.970
Coefficient of Determination (Adjusted):	0.949

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.020001	0.038616	4.8	959848.0	1.93071	N
2	IC 140-50646/10	0.040002	0.036395	4.8	904221.0	0.909821	N
3	IC 140-50646/11	0.080004	0.055537	4.8	857465.0	0.694175	N
4	IC 140-50646/12	0.160008	0.064665	4.8	847616.0	0.404137	Y
5	IC 140-50646/13	0.40002	0.141201	4.8	885413.0	0.352984	Y
6	IC 140-50646/14	1.00005	0.494175	4.8	894154.0	0.494151	Y
7	ICIS 140-50646/15	2.0001	0.989653	4.8	934893.0	0.494802	Y
8	IC 140-50646/7	4.000199	2.205612	4.8	1060151.0	0.551375	Y
9	IC 140-50646/5	8.000399	5.560852	4.8	1052212.0	0.695072	Y
10	IC 140-50646/3	16.000797	8.961193	4.8	959637.0	0.560047	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

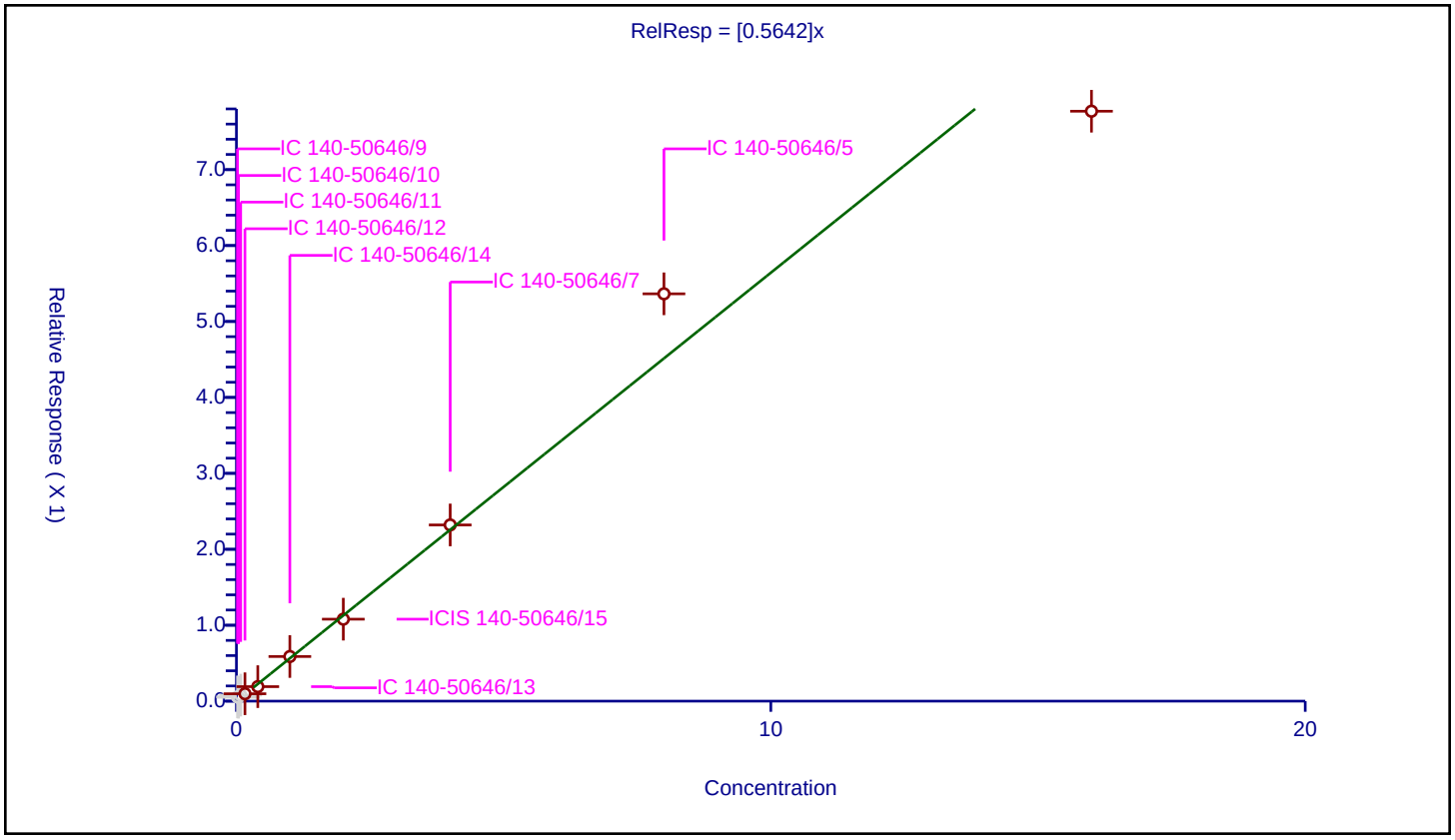
Curve Coefficients

Intercept:	0
Slope:	0.5642

Error Coefficients

Standard Error:	828000
Relative Standard Error:	12.2
Correlation Coefficient:	0.945
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-50646/9	0.020001	0.055699	4.8	959848.0	2.784802	N
2	IC 140-50646/10	0.040002	0.051343	4.8	904221.0	1.283516	N
3	IC 140-50646/11	0.080004	0.079143	4.8	857465.0	0.989239	N
4	IC 140-50646/12	0.160008	0.097323	4.8	847616.0	0.60824	Y
5	IC 140-50646/13	0.40002	0.191048	4.8	885413.0	0.477597	Y
6	IC 140-50646/14	1.00005	0.587738	4.8	894154.0	0.587708	Y
7	ICIS 140-50646/15	2.0001	1.079507	4.8	934893.0	0.539727	Y
8	IC 140-50646/7	4.000199	2.320709	4.8	1060151.0	0.580148	Y
9	IC 140-50646/5	8.000399	5.364543	4.8	1052212.0	0.670534	Y
10	IC 140-50646/3	16.000797	7.769308	4.8	959637.0	0.485558	Y



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab Sample ID: ICV 140-51007/19 Calibration Date: 06/19/2021 20:58

Instrument ID: MR Calib Start Date: 06/19/2021 09:57

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 06/19/2021 18:49

Lab File ID: RF19LCS.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	2.300	2.537		1.76	1.60	10.3	35.0
Propene	Ave	1.267	1.345		1.70	1.60	6.1	35.0
Dichlorodifluoromethane	Ave	3.506	3.934		1.80	1.60	12.2	35.0
1,2-Dichlorotetrafluoroethane	Ave	2.157	2.207		1.64	1.60	2.3	35.0
Chloromethane	Ave	0.3555	0.3166		1.43	1.60	-10.9	35.0
Acetaldehyde	Lin1		0.4554		7.41	8.00	-7.4	35.0
Vinyl chloride	Ave	1.057	1.130		1.71	1.60	6.9	35.0
1,3-Butadiene	Ave	0.8499	0.8833		1.66	1.60	3.9	35.0
Butane	Ave	1.690	1.804		1.71	1.60	6.7	35.0
Bromomethane	Ave	0.9616	0.9356		1.56	1.60	-2.7	35.0
Chloroethane	Ave	0.4316	0.4156		1.54	1.60	-3.7	35.0
Ethanol	Ave	0.5270	0.3893		5.91	8.00	-26.1	35.0
Vinyl bromide	Ave	1.084	1.110		1.64	1.60	2.4	35.0
2-Methylbutane	Ave	1.723	1.690		1.57	1.60	-1.9	35.0
Trichlorofluoromethane	Ave	3.377	3.601		1.71	1.60	6.6	35.0
Acrolein	Ave	0.4347	0.4943		1.82	1.60	13.7	35.0
Acetonitrile	Ave	0.6200	0.6444		1.66	1.60	3.9	35.0
Acetone	Lin1		0.9804			1.60	-16.7	35.0
Isopropyl alcohol	Ave	1.957	2.438		1.99	1.60	24.6	35.0
Pentane	Ave	0.1721	0.1985		1.85	1.60	15.3	35.0
Ethyl ether	Ave	1.577	1.709		1.73	1.60	8.4	35.0
1,1-Dichloroethene	Ave	1.269	1.353		1.70	1.60	6.5	35.0
t-Butyl alcohol	Ave	2.357	2.437		1.65	1.60	3.4	35.0
Acrylonitrile	Ave	1.013	1.095		1.73	1.60	8.1	35.0
1,1,2-Trichlorotrifluoroethane	Ave	2.777	2.971		1.71	1.60	7.0	35.0
Methylene Chloride	Ave	1.122	1.204		1.72	1.60	7.3	35.0
3-Chloropropene	Ave	1.209	1.423		1.88	1.60	17.7	35.0
Carbon disulfide	Ave	3.458	3.702		1.71	1.60	7.1	35.0
trans-1,2-Dichloroethene	Ave	1.253	1.301		1.66	1.60	3.8	35.0
2-Methylpentane	Ave	3.482	3.372		1.55	1.60	-3.2	35.0
Methyl tert-butyl ether	Ave	3.391	3.618		1.71	1.60	6.7	35.0
1,1-Dichloroethane	Ave	2.490	2.647		1.70	1.60	6.3	35.0
Vinyl acetate	Ave	3.728	3.985		1.71	1.60	6.9	35.0
2-Butanone	Ave	0.6685	0.6662		1.59	1.60	-0.3	35.0
Hexane	Ave	1.093	1.151		1.68	1.60	5.3	35.0
Isopropyl ether	Ave	5.039	5.534		1.76	1.60	9.8	35.0
cis-1,2-Dichloroethene	Ave	1.356	1.449		1.71	1.60	6.8	35.0
Ethyl acetate	Ave	3.409	3.366		1.58	1.60	-1.2	35.0
Chloroform	Ave	2.747	2.953		1.72	1.60	7.5	35.0
Tert-butyl ethyl ether	Ave	4.210	4.324		1.64	1.60	2.7	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab Sample ID: ICV 140-51007/19 Calibration Date: 06/19/2021 20:58

Instrument ID: MR Calib Start Date: 06/19/2021 09:57

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 06/19/2021 18:49

Lab File ID: RF19LCS.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrahydrofuran	Ave	1.724	1.827		1.70	1.60	6.0	35.0
1,1,1-Trichloroethane	Ave	2.731	2.923		1.71	1.60	7.0	35.0
1,2-Dichloroethane	Ave	0.4142	0.4440		1.72	1.60	7.2	35.0
1-Butanol	Ave	0.1274	0.1225		1.54	1.60	-3.8	35.0
Cyclohexane	Ave	0.1286	0.1427		1.78	1.60	11.0	35.0
Benzene	Ave	0.8147	0.8958		1.76	1.60	10.0	35.0
Carbon tetrachloride	Ave	0.5291	0.6438		1.95	1.60	21.7	35.0
2,3-Dimethylpentane	Ave	0.1836	0.1941		1.69	1.60	5.7	35.0
Thiophene	Ave	0.4502	0.4813		1.71	1.60	6.9	35.0
2,2,4-Trimethylpentane	Ave	1.458	1.601		1.76	1.60	9.8	35.0
Heptane	Ave	0.2807	0.3090		1.76	1.60	10.1	35.0
1,2-Dichloropropane	Ave	0.3501	0.3798		1.74	1.60	8.5	35.0
Trichloroethene	Ave	0.3689	0.4094		1.78	1.60	11.0	35.0
Dibromomethane	Ave	0.3455	0.3790		1.75	1.60	9.7	35.0
Bromodichloromethane	Ave	0.5423	0.6106		1.80	1.60	12.6	35.0
1,4-Dioxane	Ave	0.1239	0.1253		1.62	1.60	1.2	35.0
Methyl methacrylate	Ave	0.4424	0.4532		1.64	1.60	2.4	35.0
Methylcyclohexane	Ave	0.5000	0.6672		2.13	1.60	33.4	35.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7965	0.8523		1.71	1.60	7.0	35.0
cis-1,3-Dichloropropene	Ave	0.4629	0.5260		1.82	1.60	13.6	35.0
trans-1,3-Dichloropropene	Ave	0.4222	0.4783		1.81	1.60	13.3	35.0
Toluene	Ave	1.105	1.218		1.76	1.60	10.2	35.0
1,1,2-Trichloroethane	Ave	0.3395	0.3653		1.72	1.60	7.6	35.0
2-Hexanone	Ave	0.3656	0.3960		1.73	1.60	8.3	35.0
Octane	Ave	0.3177	0.3637		1.83	1.60	14.5	35.0
Dibromochloromethane	Ave	0.5650	0.6455		1.83	1.60	14.2	35.0
1,2-Dibromoethane	Ave	0.5773	0.6372		1.77	1.60	10.4	35.0
Tetrachloroethene	Ave	0.4089	0.4456		1.74	1.60	9.0	35.0
Chlorobenzene	Ave	0.8185	0.9032		1.77	1.60	10.4	35.0
2,3-Dimethylheptane	Ave	1.263	1.235		1.56	1.60	-2.2	35.0
Ethylbenzene	Ave	1.418	1.576		1.78	1.60	11.2	35.0
m-Xylene & p-Xylene	Ave	1.119	1.266		3.62	3.20	13.1	35.0
Nonane	Ave	0.7315	0.8618		1.89	1.60	17.8	35.0
Bromoform	Ave	0.5883	0.6640		1.81	1.60	12.9	35.0
Styrene	Ave	0.7373	0.8721		1.89	1.60	18.3	35.0
o-Xylene	Ave	1.175	1.302		1.77	1.60	10.8	35.0
1,1,2,2-Tetrachloroethane	Ave	0.8277	0.8764		1.69	1.60	5.9	35.0
1,2,3-Trichloropropane	Ave	0.2092	0.2330		1.78	1.60	11.4	35.0
Isopropylbenzene	Ave	1.533	1.775		1.85	1.60	15.8	35.0
Propylbenzene	Ave	0.4303	0.5085		1.89	1.60	18.2	35.0
2-Chlorotoluene	Ave	0.3931	0.4502		1.83	1.60	14.5	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab Sample ID: ICV 140-51007/19 Calibration Date: 06/19/2021 20:58

Instrument ID: MR Calib Start Date: 06/19/2021 09:57

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 06/19/2021 18:49

Lab File ID: RF19LCS.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Ethyltoluene	Ave	1.584	1.709		1.73	1.60	7.9	35.0
1,3,5-Trimethylbenzene	Ave	0.6421	0.8163		2.03	1.60	27.1	35.0
Alpha Methyl Styrene	Ave	0.6243	0.6959		1.78	1.60	11.5	35.0
Decane	Ave	0.9760	1.165		1.91	1.60	19.3	35.0
tert-Butylbenzene	Ave	1.389	1.599		1.84	1.60	15.1	35.0
1,2,4-Trimethylbenzene	Ave	1.351	1.546		1.83	1.60	14.4	35.0
sec-Butylbenzene	Ave	1.943	2.237		1.84	1.60	15.2	35.0
1,3-Dichlorobenzene	Ave	0.8962	0.9920		1.77	1.60	10.7	35.0
Benzyl chloride	Ave	0.9474	1.132		1.91	1.60	19.5	35.0
1,4-Dichlorobenzene	Ave	0.8738	0.9628		1.76	1.60	10.2	35.0
4-Isopropyltoluene	Ave	1.609	1.826		1.82	1.60	13.5	35.0
1,2,3-Trimethylbenzene	Ave	1.395	1.205		1.38	1.60	-13.7	35.0
Butylcyclohexane	Ave	1.103	1.213		1.76	1.60	9.9	35.0
1,2-Dichlorobenzene	Ave	0.8934	0.9900		1.77	1.60	10.8	35.0
Indane	Ave	1.277	1.443		1.81	1.60	13.0	35.0
Butylbenzene	Ave	1.605	1.902		1.90	1.60	18.5	35.0
Indene	Ave	1.043	1.065		1.63	1.60	2.1	35.0
Undecane	Ave	1.137	1.348		1.90	1.60	18.6	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.4441	0.3977		1.43	1.60	-10.5	35.0
1,2,4,5-Tetramethylbenzene	Ave	1.579	1.697		1.72	1.60	7.5	35.0
Dodecane	Ave	1.172	1.312		1.79	1.60	12.0	35.0
1,2,4-Trichlorobenzene	Ave	0.8492	0.8715		1.64	1.60	2.6	35.0
Naphthalene	Lin2		1.816		1.79	1.60	11.7	35.0
Hexachlorobutadiene	Ave	0.9594	0.9638		1.61	1.60	0.5	35.0
1,2,3-Trichlorobenzene	Ave	0.8476	0.8783		1.66	1.60	3.6	35.0
2-Methylnaphthalene	Ave	0.4599	0.4795		1.67	1.60	4.3	50.0
1-Methylnaphthalene	Ave	0.5009	0.5553		1.77	1.60	10.8	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7502	0.7609		4.71	4.64	1.4	35.0

Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19LCS.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 19-Jun-2021 20:58:30 ALS Bottle#: 10 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019646-019
Misc. Info.: S145 80ML
Operator ID: HMT Instrument ID: MR
Sublist:

Method: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\MR_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 21-Jun-2021 12:56:34 Calib Date: 19-Jun-2021 18:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1626

First Level Reviewer: barlozhetskayaa Date: 21-Jun-2021 10:09:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.787	8.792	-0.005	97	303600	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.003	11.008	-0.005	95	1450698	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	15.824	15.824	0.000	88	1391239	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.474	17.474	0.000	95	1023244	4.64	4.71	
6 Chlorodifluoromethane	51	3.540	3.540	0.000	97	256699	1.60	1.76	
7 Propene	41	3.551	3.551	0.001	99	136095	1.60	1.70	
8 Dichlorodifluoromethane	85	3.599	3.604	-0.005	100	398080	1.60	1.80	
9 Chloromethane	52	3.788	3.788	0.000	97	32042	1.60	1.43	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.788	3.793	-0.005	89	223325	1.60	1.64	
11 Acetaldehyde	44	3.939	3.939	0.000	99	230445	8.00	7.41	
12 Vinyl chloride	62	3.955	3.960	-0.005	98	114351	1.60	1.71	
13 Butane	43	4.047	4.047	0.000	84	182530	1.60	1.71	
14 Butadiene	54	4.047	4.047	0.000	67	89394	1.60	1.66	
15 Bromomethane	94	4.376	4.376	0.000	98	94680	1.60	1.56	
16 Chloroethane	64	4.510	4.516	-0.006	95	42057	1.60	1.54	
17 Ethanol	31	4.591	4.597	-0.006	97	196982	8.00	5.91	
18 Vinyl bromide	106	4.818	4.823	-0.005	98	112343	1.60	1.64	
19 2-Methylbutane	43	4.866	4.866	0.000	93	171056	1.60	1.57	
20 Trichlorofluoromethane	101	5.093	5.093	0.000	100	364411	1.60	1.71	
21 Acrolein	56	5.104	5.109	-0.005	94	50021	1.60	1.82	
22 Acetonitrile	40	5.174	5.174	0.000	99	65217	1.60	1.66	
23 Acetone	58	5.222	5.222	0.000	98	99218	1.60	1.33	
24 Isopropyl alcohol	45	5.298	5.298	0.000	93	246754	1.60	1.99	
25 Pentane	72	5.319	5.319	0.000	95	20091	1.60	1.85	
26 Ethyl ether	31	5.492	5.492	0.000	93	172916	1.60	1.73	
27 1,1-Dichloroethene	96	5.821	5.821	0.000	95	136876	1.60	1.70	
28 2-Methyl-2-propanol	59	5.907	5.912	-0.005	97	246646	1.60	1.65	
29 Acrylonitrile	53	5.929	5.929	0.000	95	110774	1.60	1.73	
30 112TCTFE	101	5.999	5.999	0.000	97	300653	1.60	1.71	
31 Methylene Chloride	84	6.182	6.187	-0.005	97	121864	1.60	1.72	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.193	6.198	-0.005	94	144028	1.60	1.88	
33 Carbon disulfide	76	6.344	6.349	-0.005	99	374652	1.60	1.71	
34 trans-1,2-Dichloroethene	96	7.007	7.012	-0.005	95	131655	1.60	1.66	
35 2-Methylpentane	43	7.018	7.023	-0.005	96	341198	1.60	1.55	
36 Methyl tert-butyl ether	73	7.131	7.131	0.000	97	366179	1.60	1.71	
37 1,1-Dichloroethane	63	7.444	7.444	0.000	100	267831	1.60	1.70	
38 Vinyl acetate	43	7.546	7.546	0.000	100	403244	1.60	1.71	
39 2-Butanone (MEK)	72	8.005	8.005	0.000	97	67420	1.60	1.59	
40 Hexane	56	8.026	8.026	0.000	88	116500	1.60	1.68	
41 Isopropyl ether	45	8.188	8.188	0.000	97	560047	1.60	1.76	
42 cis-1,2-Dichloroethene	96	8.447	8.447	0.000	97	146626	1.60	1.71	
43 Ethyl acetate	43	8.630	8.630	0.000	99	340687	1.60	1.58	
44 Chloroform	83	8.797	8.797	0.000	98	298893	1.60	1.72	
45 Tert-butyl ethyl ether	59	8.878	8.878	0.000	97	437542	1.60	1.64	
46 Tetrahydrofuran	42	9.202	9.196	0.006	95	184930	1.60	1.70	
47 1,1,1-Trichloroethane	97	9.838	9.843	-0.005	97	295817	1.60	1.71	
48 1,2-Dichloroethane	62	9.957	9.962	-0.005	97	214714	1.60	1.72	
49 n-Butanol	31	10.393	10.393	0.000	62	59241	1.60	1.54	
50 Cyclohexane	69	10.447	10.447	0.000	84	69002	1.60	1.78	
51 Benzene	78	10.453	10.453	0.000	98	433170	1.60	1.76	
52 Carbon tetrachloride	117	10.474	10.474	0.000	97	311334	1.60	1.95	
53 2,3-Dimethylpentane	71	10.561	10.571	-0.010	92	93852	1.60	1.69	
54 Thiophene	84	10.728	10.733	-0.005	97	232757	1.60	1.71	
55 Isooctane	57	11.213	11.213	0.000	97	774015	1.60	1.76	
56 n-Heptane	71	11.591	11.596	-0.005	94	149401	1.60	1.76	
57 1,2-Dichloropropane	63	11.688	11.688	0.000	92	183642	1.60	1.74	
58 Trichloroethene	130	11.720	11.720	0.000	95	197956	1.60	1.78	
59 Dibromomethane	93	11.812	11.812	0.000	95	183265	1.60	1.75	
60 Dichlorobromomethane	83	11.952	11.957	-0.005	99	295274	1.60	1.80	
61 1,4-Dioxane	88	11.968	11.968	0.000	93	60589	1.60	1.62	
62 Methyl methacrylate	41	12.044	12.043	0.001	91	219139	1.60	1.64	
63 Methylcyclohexane	83	12.491	12.496	-0.005	93	322614	1.60	2.13	
64 4-Methyl-2-pentanone (MIBK)	43	12.912	12.912	0.000	98	412142	1.60	1.71	
65 cis-1,3-Dichloropropene	75	12.976	12.976	0.000	96	254374	1.60	1.82	
66 trans-1,3-Dichloropropene	75	13.694	13.694	0.000	99	221800	1.60	1.81	
67 Toluene	91	13.812	13.818	-0.006	93	564843	1.60	1.76	
68 1,1,2-Trichloroethane	83	13.898	13.898	0.000	96	169401	1.60	1.72	
69 2-Hexanone	58	14.281	14.281	0.000	90	183633	1.60	1.73	
70 n-Octane	85	14.513	14.513	0.000	96	168655	1.60	1.83	
71 Chlorodibromomethane	129	14.616	14.616	0.000	99	299338	1.60	1.83	
72 Ethylene Dibromide	107	14.912	14.912	0.000	99	295482	1.60	1.77	
73 Tetrachloroethene	129	14.982	14.982	0.000	97	206629	1.60	1.74	
74 Chlorobenzene	112	15.872	15.872	0.000	92	418859	1.60	1.77	
75 2,3-Dimethylheptane	43	15.877	15.877	0.000	95	572819	1.60	1.56	
76 Ethylbenzene	91	16.158	16.158	0.000	98	731054	1.60	1.78	
77 m-Xylene & p-Xylene	91	16.320	16.320	0.000	98	1173906	3.20	3.62	
78 n-Nonane	57	16.735	16.735	0.000	96	399661	1.60	1.89	
79 Bromoform	173	16.783	16.783	0.000	97	307922	1.60	1.81	
80 Styrene	104	16.794	16.794	0.000	99	404441	1.60	1.89	
81 o-Xylene	91	16.854	16.853	0.001	98	603684	1.60	1.77	
82 1,1,2,2-Tetrachloroethane	83	17.182	17.182	0.000	98	406420	1.60	1.69	
83 1,2,3-Trichloropropane	110	17.344	17.344	0.000	98	108069	1.60	1.78	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Isopropylbenzene	105	17.441	17.441	0.000	95	823099	1.60	1.85	
85 N-Propylbenzene	120	17.981	17.975	0.006	99	235800	1.60	1.89	
86 2-Chlorotoluene	126	18.024	18.024	0.000	97	208790	1.60	1.83	
88 4-Ethyltoluene	105	18.126	18.126	0.000	98	792356	1.60	1.73	
87 1,3,5-Trimethylbenzene	120	18.196	18.202	-0.006	92	378541	1.60	2.03	
89 Alpha Methyl Styrene	118	18.428	18.428	0.000	89	322718	1.60	1.78	
90 n-Decane	57	18.477	18.477	0.000	87	540060	1.60	1.91	
91 tert-Butylbenzene	119	18.622	18.622	0.000	91	741697	1.60	1.84	
92 1,2,4-Trimethylbenzene	105	18.633	18.633	0.000	96	717119	1.60	1.83	
93 sec-Butylbenzene	105	18.886	18.886	0.000	99	1037583	1.60	1.84	
94 1,3-Dichlorobenzene	146	18.908	18.908	0.000	98	460049	1.60	1.77	
95 Benzyl chloride	91	18.983	18.983	0.000	98	524849	1.60	1.91	
96 1,4-Dichlorobenzene	146	18.994	18.994	0.000	95	446499	1.60	1.76	
97 4-Isopropyltoluene	119	19.048	19.048	0.000	97	846604	1.60	1.82	
98 1,2,3-Trimethylbenzene	105	19.102	19.102	0.000	99	558695	1.60	1.38	
99 Butylcyclohexane	83	19.151	19.151	0.000	91	562554	1.60	1.76	
100 2,3-Dihydroindene	117	19.350	19.350	0.000	94	669166	1.60	1.81	
101 1,2-Dichlorobenzene	146	19.350	19.356	-0.006	97	459130	1.60	1.77	
103 n-Butylbenzene	91	19.480	19.480	0.000	96	881861	1.60	1.90	
102 Indene	116	19.480	19.480	0.000	85	493802	1.60	1.63	
104 Undecane	57	19.776	19.776	0.000	96	625199	1.60	1.90	
105 1,2-Dibromo-3-Chloropropane	157	19.954	19.954	0.000	97	184411	1.60	1.43	
106 1,2,4,5-Tetramethylbenzene	119	20.229	20.229	0.000	96	787168	1.60	1.72	
107 Dodecane	57	20.838	20.838	0.000	94	608388	1.60	1.79	
108 1,2,4-Trichlorobenzene	180	21.054	21.060	-0.006	94	404143	1.60	1.64	
109 Naphthalene	128	21.205	21.205	0.000	99	842252	1.60	1.79	
110 Hexachlorobutadiene	225	21.415	21.415	0.000	95	446967	1.60	1.61	
111 1,2,3-Trichlorobenzene	180	21.486	21.486	0.000	96	407318	1.60	1.66	
112 2-Methylnaphthalene	142	22.100	22.100	0.000	99	222400	1.60	1.67	
113 1-Methylnaphthalene	142	22.230	22.230	0.000	99	257516	1.60	1.77	
A 116 C8 Range	1	14.519	(14.465-14.562)		0	1761733	1.60	1.83	
S 117 Xylenes, Total	100				0		4.80	5.39	
S 118 1,2-Dichloroethene, Total	1				0		3.20	3.37	
T 143 2-Methylthiophene TIC	97	13.974	13.365	0.609	95	428281	1.60	1.48	
T 144 3-Methylthiophene TIC	97	14.179	13.365	0.814	97	422074	1.60	1.46	
T 146 2-Ethylthiophene TIC	97	16.266	15.710	0.556	95	514624	1.60	1.78	
T 153 1,2-Dimethyl-4-Ethylbenzene TIC	119	19.846	19.426	0.420	96	647621	1.60	2.23	
T 157 Benzo(b)thiophene TIC	134	21.313	20.855	0.458	97	440659	1.60	1.52	

QC Flag Legend

Processing Flags

Reagents:

40CV101S_00145	Amount Added: 80.00	Units: mL	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

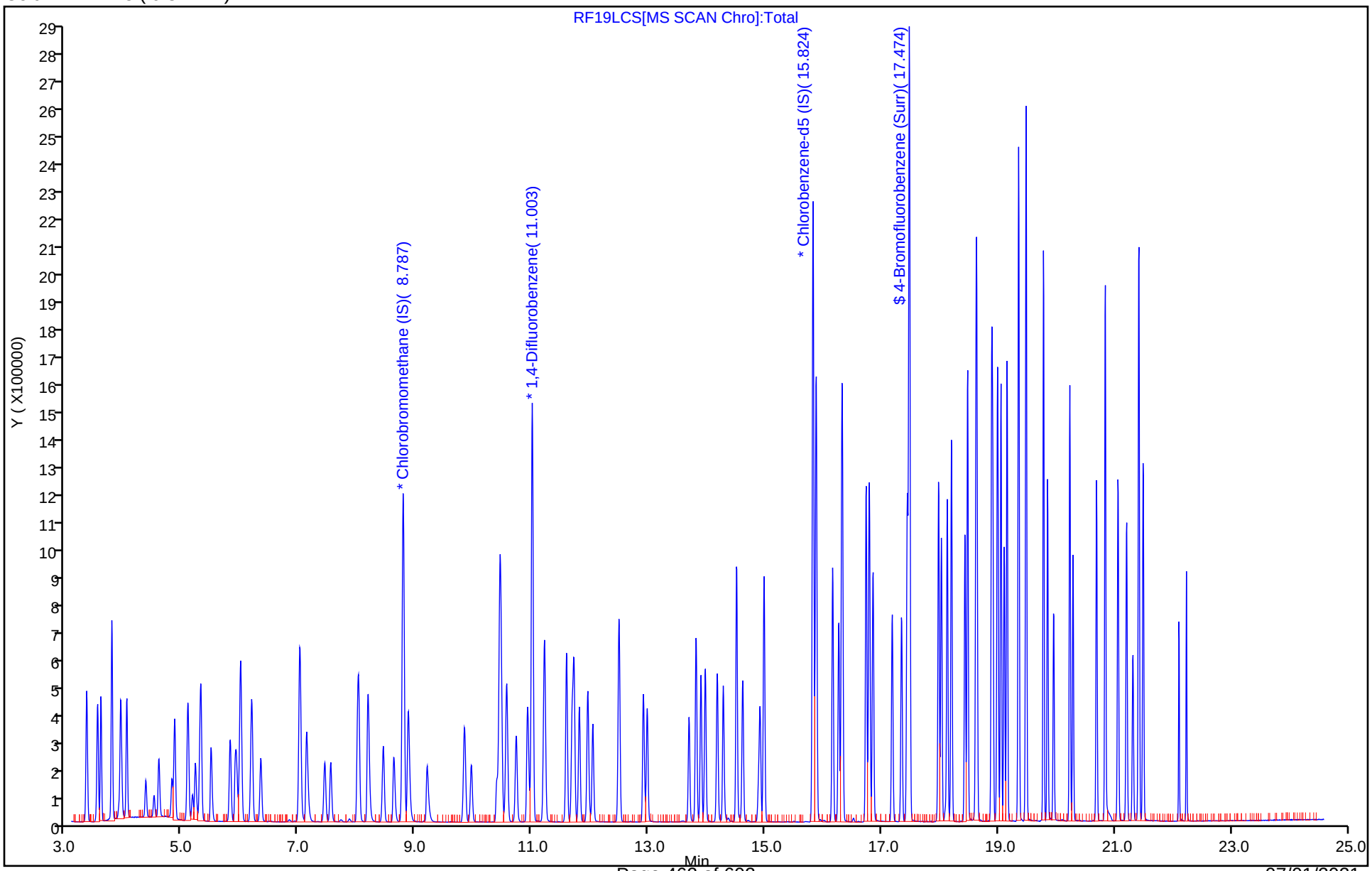
Report Date: 21-Jun-2021 12:56:37 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19LCS.D

Injection Date:	19-Jun-2021 20:58:30	Instrument ID:	MR	Operator ID:	HMT
Lims ID:	ICV			Worklist Smp#:	19
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab Sample ID: CCVIS 140-51274/2 Calibration Date: 06/28/2021 08:03

Instrument ID: MR Calib Start Date: 06/19/2021 09:57

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 06/19/2021 18:49

Lab File ID: RCCVF28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	2.300	2.648		2.30	2.00	15.1	30.0
Propene	Ave	1.267	1.288		2.03	2.00	1.6	30.0
Dichlorodifluoromethane	Ave	3.506	3.881		2.21	2.00	10.7	30.0
Chloromethane	Ave	0.3555	0.3125		1.76	2.00	-12.1	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.157	2.638		2.45	2.00	22.3	30.0
Acetaldehyde	Lin1		0.3895		8.05	10.0	-19.5	30.0
Vinyl chloride	Ave	1.057	1.096		2.07	2.00	3.7	30.0
1,3-Butadiene	Ave	0.8499	0.7729		1.82	2.00	-9.1	30.0
Butane	Ave	1.690	1.554		1.84	2.00	-8.1	30.0
Bromomethane	Ave	0.9616	1.075		2.24	2.00	11.8	30.0
Chloroethane	Ave	0.4316	0.3971		1.84	2.00	-8.0	30.0
Ethanol	Ave	0.5270	0.5448		10.3	10.0	3.4	30.0
Vinyl bromide	Ave	1.084	1.204		2.22	2.00	11.0	30.0
2-Methylbutane	Ave	1.723	1.582		1.84	2.00	-8.2	30.0
Trichlorofluoromethane	Ave	3.377	4.057		2.40	2.00	20.1	30.0
Acrolein	Ave	0.4347	0.4456		2.05	2.00	2.5	30.0
Acetonitrile	Ave	0.6200	0.7193		2.32	2.00	16.0	30.0
Acetone	Lin1		0.7384		6.27	6.00	4.6	30.0
Isopropyl alcohol	Ave	1.957	2.341		7.18	6.00	19.6	30.0
Pentane	Ave	0.1721	0.1856		2.16	2.00	7.8	30.0
Ethyl ether	Ave	1.577	1.590		2.02	2.00	0.9	30.0
1,1-Dichloroethene	Ave	1.269	1.214		1.91	2.00	-4.4	30.0
t-Butyl alcohol	Ave	2.357	2.523		2.14	2.00	7.0	30.0
Acrylonitrile	Ave	1.013	1.153		2.28	2.00	13.8	30.0
1,1,2-Trichlorotrifluoroethane	Ave	2.777	3.015		2.17	2.00	8.6	30.0
Methylene Chloride	Ave	1.122	1.223		2.18	2.00	9.0	30.0
3-Chloropropene	Ave	1.209	1.264		2.09	2.00	4.5	30.0
Carbon disulfide	Ave	3.458	4.020		2.33	2.00	16.3	30.0
trans-1,2-Dichloroethene	Ave	1.253	1.243		1.98	2.00	-0.8	30.0
2-Methylpentane	Ave	3.482	3.486		2.00	2.00	0.1	30.0
Methyl tert-butyl ether	Ave	3.391	3.311		1.95	2.00	-2.3	30.0
1,1-Dichloroethane	Ave	2.490	2.677		2.15	2.00	7.5	30.0
Vinyl acetate	Ave	3.728	3.423		1.84	2.00	-8.2	30.0
2-Butanone	Ave	0.6685	0.6260		1.87	2.00	-6.3	30.0
Hexane	Ave	1.093	1.146		2.10	2.00	4.8	30.0
Isopropyl ether	Ave	5.039	5.037		2.00	2.00	-0.0	30.0
cis-1,2-Dichloroethene	Ave	1.356	1.309		1.93	2.00	-3.5	30.0
Ethyl acetate	Ave	3.409	3.538		2.08	2.00	3.8	30.0
Chloroform	Ave	2.747	3.021		2.20	2.00	10.0	30.0
Tert-butyl ethyl ether	Ave	4.210	4.292		2.04	2.00	1.9	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab Sample ID: CCVIS 140-51274/2 Calibration Date: 06/28/2021 08:03

Instrument ID: MR Calib Start Date: 06/19/2021 09:57

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 06/19/2021 18:49

Lab File ID: RCCVF28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrahydrofuran	Ave	1.724	1.709		1.98	2.00	-0.9	30.0
1,1,1-Trichloroethane	Ave	2.731	2.797		2.05	2.00	2.4	30.0
1,2-Dichloroethane	Ave	0.4142	0.4388		2.12	2.00	5.9	30.0
1-Butanol	Ave	0.1274	0.1180		1.85	2.00	-7.4	30.0
Cyclohexane	Ave	0.1286	0.1218		1.89	2.00	-5.3	30.0
Benzene	Ave	0.8147	0.8710		2.14	2.00	6.9	30.0
Carbon tetrachloride	Ave	0.5291	0.6440		2.43	2.00	21.7	30.0
2,3-Dimethylpentane	Ave	0.1836	0.1818		1.98	2.00	-1.0	30.0
Thiophene	Ave	0.4502	0.4759		2.11	2.00	5.7	30.0
2,2,4-Trimethylpentane	Ave	1.458	1.479		2.03	2.00	1.5	30.0
Heptane	Ave	0.2807	0.2766		1.97	2.00	-1.5	30.0
1,2-Dichloropropane	Ave	0.3501	0.3887		2.22	2.00	11.0	30.0
Trichloroethene	Ave	0.3689	0.3538		1.92	2.00	-4.1	30.0
Dibromomethane	Ave	0.3455	0.3851		2.23	2.00	11.5	30.0
Bromodichloromethane	Ave	0.5423	0.6151		2.27	2.00	13.4	30.0
1,4-Dioxane	Ave	0.1239	0.1269		2.05	2.00	2.4	30.0
Methyl methacrylate	Ave	0.4424	0.4458		2.02	2.00	0.8	30.0
Methylcyclohexane	Ave	0.5000	0.4671		1.87	2.00	-6.6	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7965	0.8369		2.10	2.00	5.1	30.0
cis-1,3-Dichloropropene	Ave	0.4629	0.4877		2.11	2.00	5.3	30.0
trans-1,3-Dichloropropene	Ave	0.4222	0.4450		2.11	2.00	5.4	30.0
Toluene	Ave	1.105	1.092		1.98	2.00	-1.2	30.0
1,1,2-Trichloroethane	Ave	0.3395	0.3783		2.23	2.00	11.4	30.0
2-Hexanone	Ave	0.3656	0.3840		2.10	2.00	5.0	30.0
Octane	Ave	0.3177	0.3122		1.96	2.00	-1.8	30.0
Dibromochloromethane	Ave	0.5650	0.6553		2.32	2.00	16.0	30.0
1,2-Dibromoethane	Ave	0.5773	0.5927		2.05	2.00	2.7	30.0
Tetrachloroethene	Ave	0.4089	0.3972		1.94	2.00	-2.8	30.0
Chlorobenzene	Ave	0.8185	0.9179		2.24	2.00	12.1	30.0
2,3-Dimethylheptane	Ave	1.263	1.432		2.27	2.00	13.4	30.0
Ethylbenzene	Ave	1.418	1.493		2.11	2.00	5.4	30.0
m-Xylene & p-Xylene	Ave	1.119	1.248		4.46	4.00	11.5	30.0
Nonane	Ave	0.7315	0.8124		2.22	2.00	11.1	30.0
Bromoform	Ave	0.5883	0.7581		2.58	2.00	28.8	30.0
Styrene	Ave	0.7373	0.8952		2.43	2.00	21.4	30.0
o-Xylene	Ave	1.175	1.342		2.28	2.00	14.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8277	1.000		2.42	2.00	20.9	30.0
1,2,3-Trichloropropane	Ave	0.2092	0.2348		2.24	2.00	12.2	30.0
Isopropylbenzene	Ave	1.533	1.730		2.26	2.00	12.9	30.0
Propylbenzene	Ave	0.4303	0.4821		2.24	2.00	12.0	30.0
2-Chlorotoluene	Ave	0.3931	0.4630		2.36	2.00	17.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab Sample ID: CCVIS 140-51274/2 Calibration Date: 06/28/2021 08:03

Instrument ID: MR Calib Start Date: 06/19/2021 09:57

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 06/19/2021 18:49

Lab File ID: RCCVF28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Ethyltoluene	Ave	1.584	1.859		2.35	2.00	17.4	30.0
1,3,5-Trimethylbenzene	Ave	0.6421	0.7534		2.35	2.00	17.3	30.0
Alpha Methyl Styrene	Ave	0.6243	0.7236		2.32	2.00	15.9	30.0
Decane	Ave	0.9760	1.247		2.55	2.00	27.7	30.0
tert-Butylbenzene	Ave	1.389	1.745		2.51	2.00	25.6	30.0
1,2,4-Trimethylbenzene	Ave	1.351	1.744		2.58	2.00	29.1	30.0
sec-Butylbenzene	Ave	1.943	2.438		2.51	2.00	25.5	30.0
1,3-Dichlorobenzene	Ave	0.8962	1.081		2.41	2.00	20.6	30.0
Benzyl chloride	Ave	0.9474	1.267		2.68	2.00	33.8*	30.0
1,4-Dichlorobenzene	Ave	0.8738	1.042		2.39	2.00	19.3	30.0
4-Isopropyltoluene	Ave	1.609	2.039		2.53	2.00	26.7	30.0
1,2,3-Trimethylbenzene	Ave	1.395	1.793		2.57	2.00	28.5	30.0
Butylcyclohexane	Ave	1.103	1.514		2.74	2.00	37.2*	30.0
Indane	Ave	1.277	1.659		2.60	2.00	29.9	30.0
1,2-Dichlorobenzene	Ave	0.8934	1.121		2.51	2.00	25.5	30.0
Butylbenzene	Ave	1.605	2.292		2.86	2.00	42.8*	30.0
Indene	Ave	1.043	1.428		2.74	2.00	36.8*	30.0
Undecane	Ave	1.137	1.475		2.60	2.00	29.8	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.4441	0.5628		2.53	2.00	26.7	30.0
1,2,4,5-Tetramethylbenzene	Ave	1.579	1.913		2.42	2.00	21.1	30.0
Dodecane	Ave	1.172	1.443		2.46	2.00	23.2	30.0
1,2,4-Trichlorobenzene	Ave	0.8492	0.8341		1.96	2.00	-1.8	30.0
Naphthalene	Lin2		1.854		2.29	2.00	14.4	30.0
Hexachlorobutadiene	Ave	0.9594	1.072		2.23	2.00	11.7	30.0
1,2,3-Trichlorobenzene	Ave	0.8476	0.9367		2.21	2.00	10.5	30.0
2-Methylnaphthalene	Ave	0.4599	0.8247		3.59	2.00	79.3*	50.0
1-Methylnaphthalene	Ave	0.5009	1.096		4.38	2.00	118.8*	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7502	0.8534		5.28	4.64	13.8	30.0

Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MR\20210627-19739.b\RCCVF28.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 28-Jun-2021 08:03:30 ALS Bottle#: 7 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019739-002
Misc. Info.: P140 100ML
Operator ID: HMT Instrument ID: MR
Sublist: chrom-MR_TO15*sub16

Method: \\chromfs\Knoxville\ChromData\MR\20210627-19739.b\MR_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 29-Jun-2021 10:21:30 Calib Date: 19-Jun-2021 18:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: khachitpongpanits Date: 29-Jun-2021 10:21:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.781	8.781	0.000	94	264071	4.80	4.80	
* 2 1,4-Difluorobenzene	114	10.998	10.998	0.000	96	1282467	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	15.824	15.824	0.000	89	1127080	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.468	17.468	0.000	90	929841	4.64	5.28	
6 Chlorodifluoromethane	51	3.540	3.540	0.000	97	291392	2.00	2.30	
7 Propene	41	3.551	3.551	0.000	98	141680	2.00	2.03	
8 Dichlorodifluoromethane	85	3.605	3.605	0.000	100	426997	2.00	2.21	
9 Chloromethane	52	3.788	3.788	0.000	56	34386	2.00	1.76	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.793	3.793	0.000	90	290207	2.00	2.45	
11 Acetaldehyde	44	3.939	3.939	0.000	95	214302	10.0	8.05	
12 Vinyl chloride	62	3.960	3.960	0.000	99	120554	2.00	2.07	
13 Butane	43	4.047	4.047	0.000	79	170953	2.00	1.84	
14 Butadiene	54	4.047	4.047	0.000	74	85040	2.00	1.82	
15 Bromomethane	94	4.370	4.370	0.000	95	118293	2.00	2.24	
16 Chloroethane	64	4.510	4.510	0.000	89	43695	2.00	1.84	
17 Ethanol	31	4.602	4.602	0.000	97	299727	10.0	10.3	
18 Vinyl bromide	106	4.818	4.818	0.000	96	132421	2.00	2.22	
19 2-Methylbutane	43	4.866	4.866	0.000	90	174087	2.00	1.84	
20 Trichlorofluoromethane	101	5.087	5.087	0.000	99	446385	2.00	2.40	
21 Acrolein	56	5.104	5.104	0.000	94	49029	2.00	2.05	
22 Acetonitrile	40	5.168	5.168	0.000	98	79142	2.00	2.32	
23 Acetone	58	5.212	5.212	0.000	99	243739	6.00	6.27	
24 Isopropyl alcohol	45	5.298	5.298	0.000	95	772740	6.00	7.18	
25 Pentane	72	5.314	5.314	0.000	97	20424	2.00	2.16	
26 Ethyl ether	31	5.481	5.481	0.000	90	174962	2.00	2.02	
27 1,1-Dichloroethene	96	5.815	5.815	0.000	93	133578	2.00	1.91	
28 2-Methyl-2-propanol	59	5.907	5.907	0.000	97	277562	2.00	2.14	
29 Acrylonitrile	53	5.929	5.929	0.000	93	126845	2.00	2.28	
30 112TCTFE	101	5.993	5.993	0.000	94	331729	2.00	2.17	
31 Methylene Chloride	84	6.177	6.177	0.000	93	134513	2.00	2.18	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.193	6.193	0.000	96	139060	2.00	2.09	
33 Carbon disulfide	76	6.344	6.344	0.000	99	442269	2.00	2.33	
34 trans-1,2-Dichloroethene	96	7.007	7.007	0.000	93	136802	2.00	1.98	
35 2-Methylpentane	43	7.018	7.018	0.000	95	383516	2.00	2.00	
36 Methyl tert-butyl ether	73	7.120	7.120	0.000	96	364334	2.00	1.95	
37 1,1-Dichloroethane	63	7.439	7.439	0.000	99	294509	2.00	2.15	
38 Vinyl acetate	43	7.541	7.541	0.000	100	376584	2.00	1.84	
39 2-Butanone (MEK)	72	7.994	7.994	0.000	96	68883	2.00	1.87	
40 Hexane	56	8.021	8.021	0.000	88	126047	2.00	2.10	
41 Isopropyl ether	45	8.172	8.172	0.000	95	554216	2.00	2.00	
42 cis-1,2-Dichloroethene	96	8.442	8.442	0.000	98	144033	2.00	1.93	
43 Ethyl acetate	43	8.619	8.619	0.000	98	389326	2.00	2.08	
44 Chloroform	83	8.792	8.792	0.000	96	332434	2.00	2.20	
45 Tert-butyl ethyl ether	59	8.862	8.862	0.000	98	472246	2.00	2.04	
46 Tetrahydrofuran	42	9.186	9.186	0.000	92	188022	2.00	1.98	
47 1,1,1-Trichloroethane	97	9.833	9.833	0.000	95	307794	2.00	2.05	
48 1,2-Dichloroethane	62	9.951	9.951	0.000	96	234461	2.00	2.12	
49 n-Butanol	31	10.388	10.388	0.000	90	63051	2.00	1.85	
50 Cyclohexane	69	10.437	10.437	0.000	85	65089	2.00	1.89	
51 Benzene	78	10.447	10.447	0.000	98	465436	2.00	2.14	
52 Carbon tetrachloride	117	10.464	10.464	0.000	94	344116	2.00	2.43	
53 2,3-Dimethylpentane	71	10.555	10.555	0.000	90	97160	2.00	1.98	
54 Thiophene	84	10.717	10.717	0.000	97	254318	2.00	2.11	
55 Isooctane	57	11.208	11.208	0.000	97	790481	2.00	2.03	
56 n-Heptane	71	11.585	11.585	0.000	94	147782	2.00	1.97	
57 1,2-Dichloropropane	63	11.688	11.688	0.000	92	207698	2.00	2.22	
58 Trichloroethene	130	11.715	11.715	0.000	92	189038	2.00	1.92	
59 Dibromomethane	93	11.806	11.806	0.000	93	205788	2.00	2.23	
60 Dichlorobromomethane	83	11.957	11.957	0.000	97	328687	2.00	2.27	
61 1,4-Dioxane	88	11.963	11.963	0.000	98	67785	2.00	2.05	
62 Methyl methacrylate	41	12.044	12.044	0.000	89	238231	2.00	2.02	
63 Methylcyclohexane	83	12.502	12.502	0.000	89	249613	2.00	1.87	
64 4-Methyl-2-pentanone (MIBK)	43	12.917	12.917	0.000	98	447222	2.00	2.10	
65 cis-1,3-Dichloropropene	75	12.987	12.987	0.000	99	260590	2.00	2.11	
66 trans-1,3-Dichloropropene	75	13.704	13.704	0.000	95	208969	2.00	2.11	
67 Toluene	91	13.823	13.823	0.000	92	512816	2.00	1.98	
68 1,1,2-Trichloroethane	83	13.904	13.904	0.000	94	177664	2.00	2.23	
69 2-Hexanone	58	14.287	14.287	0.000	89	180356	2.00	2.10	
70 n-Octane	85	14.513	14.513	0.000	97	146598	2.00	1.96	
71 Chlorodibromomethane	129	14.621	14.621	0.000	96	307742	2.00	2.32	
72 Ethylene Dibromide	107	14.918	14.918	0.000	97	278329	2.00	2.05	
73 Tetrachloroethene	129	14.982	14.982	0.000	93	186546	2.00	1.94	
74 Chlorobenzene	112	15.872	15.872	0.000	91	431046	2.00	2.24	
75 2,3-Dimethylheptane	43	15.878	15.878	0.000	94	672362	2.00	2.27	
76 Ethylbenzene	91	16.158	16.158	0.000	99	701347	2.00	2.11	
77 m-Xylene & p-Xylene	91	16.320	16.320	0.000	98	1171773	4.00	4.46	
78 n-Nonane	57	16.730	16.730	0.000	95	381529	2.00	2.22	
79 Bromoform	173	16.778	16.778	0.000	94	355997	2.00	2.58	
80 Styrene	104	16.789	16.789	0.000	99	420419	2.00	2.43	
81 o-Xylene	91	16.848	16.848	0.000	99	630288	2.00	2.28	
82 1,1,2,2-Tetrachloroethane	83	17.177	17.177	0.000	98	469770	2.00	2.42	
83 1,2,3-Trichloropropane	110	17.339	17.339	0.000	95	110267	2.00	2.24	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Isopropylbenzene	105	17.436	17.436	0.000	95	812309	2.00	2.26	
85 N-Propylbenzene	120	17.975	17.975	0.000	99	226401	2.00	2.24	
86 2-Chlorotoluene	126	18.024	18.024	0.000	98	217435	2.00	2.36	
88 4-Ethyltoluene	105	18.121	18.121	0.000	98	873217	2.00	2.35	
87 1,3,5-Trimethylbenzene	120	18.196	18.196	0.000	92	353827	2.00	2.35	
89 Alpha Methyl Styrene	118	18.423	18.423	0.000	88	339816	2.00	2.32	
90 n-Decane	57	18.471	18.471	0.000	88	585464	2.00	2.55	
91 tert-Butylbenzene	119	18.617	18.617	0.000	90	819308	2.00	2.51	
92 1,2,4-Trimethylbenzene	105	18.628	18.628	0.000	96	819142	2.00	2.58	
93 sec-Butylbenzene	105	18.881	18.881	0.000	99	1144817	2.00	2.51	
94 1,3-Dichlorobenzene	146	18.903	18.903	0.000	98	507669	2.00	2.41	
95 Benzyl chloride	91	18.978	18.978	0.000	97	595213	2.00	2.68	
96 1,4-Dichlorobenzene	146	18.989	18.989	0.000	94	489575	2.00	2.39	
97 4-Isopropyltoluene	119	19.043	19.043	0.000	97	957586	2.00	2.53	
98 1,2,3-Trimethylbenzene	105	19.097	19.097	0.000	99	841996	2.00	2.57	
99 Butylcyclohexane	83	19.151	19.151	0.000	92	711012	2.00	2.74	
100 2,3-Dihydroindene	117	19.345	19.345	0.000	92	779213	2.00	2.60	
101 1,2-Dichlorobenzene	146	19.350	19.350	0.000	96	526394	2.00	2.51	
103 n-Butylbenzene	91	19.474	19.474	0.000	94	1076363	2.00	2.86	
102 Indene	116	19.474	19.474	0.000	75	670416	2.00	2.74	
104 Undecane	57	19.771	19.771	0.000	94	692886	2.00	2.60	
105 1,2-Dibromo-3-Chloropropane	157	19.949	19.949	0.000	94	264323	2.00	2.53	
106 1,2,4,5-Tetramethylbenzene	119	20.224	20.224	0.000	96	898460	2.00	2.42	
107 Dodecane	57	20.833	20.833	0.000	92	677771	2.00	2.46	
108 1,2,4-Trichlorobenzene	180	21.049	21.049	0.000	94	391703	2.00	1.96	
109 Naphthalene	128	21.200	21.200	0.000	99	870604	2.00	2.29	
110 Hexachlorobutadiene	225	21.410	21.410	0.000	95	503374	2.00	2.23	
111 1,2,3-Trichlorobenzene	180	21.480	21.480	0.000	95	439868	2.00	2.21	
112 2-Methylnaphthalene	142	22.100	22.100	0.000	99	387331	2.00	3.59	
113 1-Methylnaphthalene	142	22.224	22.224	0.000	99	514677	2.00	4.38	
A 116 C8 Range	1	14.519	(14.476-14.562)		0	1792391	2.00	2.10	
S 117 Xylenes, Total	100				0		6.00	6.74	
S 118 1,2-Dichloroethene, Total	1				0		4.00	3.91	

QC Flag Legend

Processing Flags

Reagents:

40CV101P_00140	Amount Added: 100.00	Units: ml	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

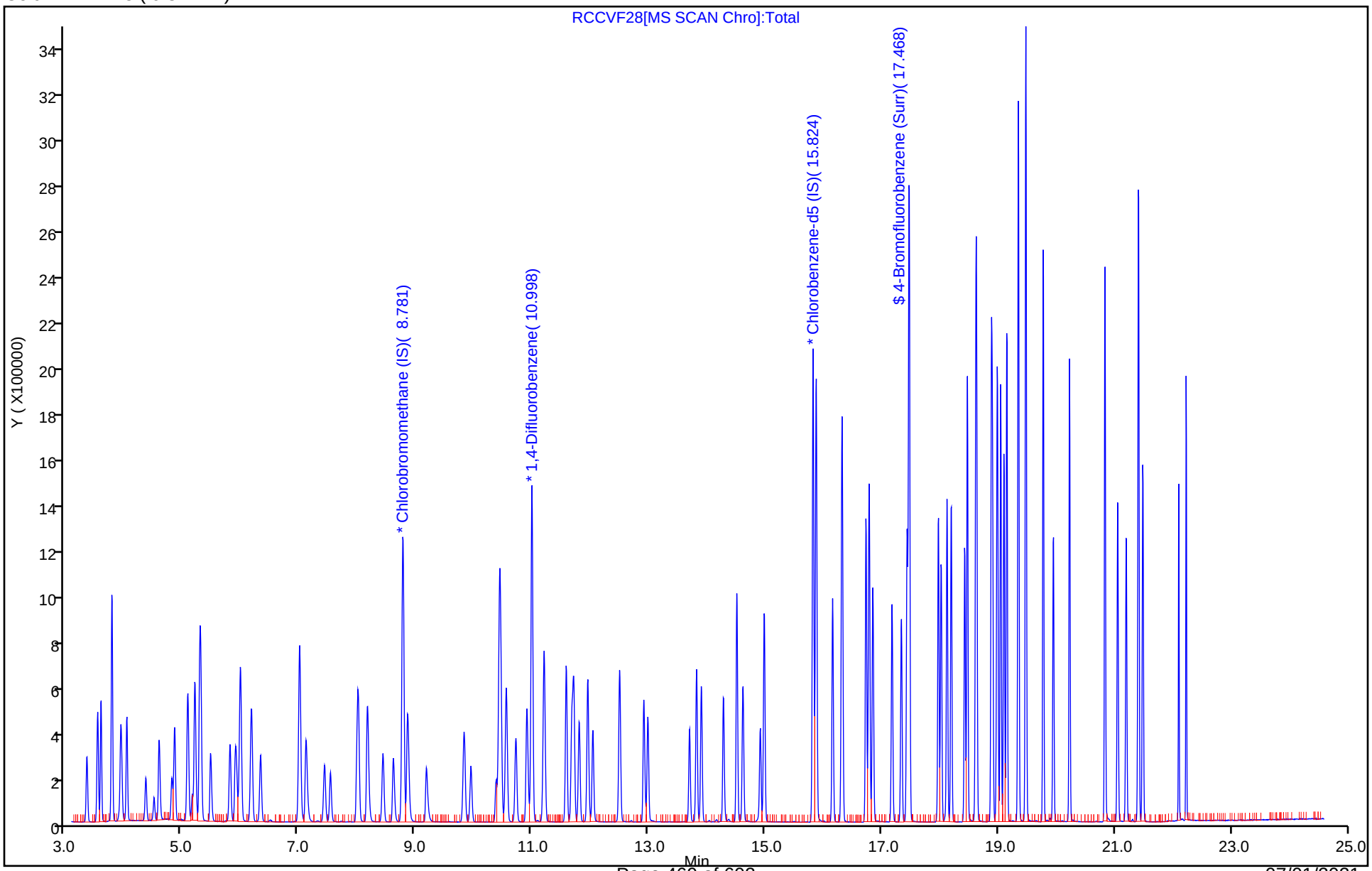
Report Date: 29-Jun-2021 10:21:31 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MR\20210627-19739.b\RCCVF28.D

Injection Date:	28-Jun-2021 08:03:30	Instrument ID:	MR	Operator ID:	HMT
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab Sample ID: CCVIS 140-51316/2 Calibration Date: 06/30/2021 08:50

Instrument ID: MR Calib Start Date: 06/19/2021 09:57

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 06/19/2021 18:49

Lab File ID: RCCVF30.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	2.300	2.867		2.49	2.00	24.7	30.0
Propene	Ave	1.267	1.347		2.13	2.00	6.3	30.0
Dichlorodifluoromethane	Ave	3.506	4.350		2.48	2.00	24.1	30.0
Chloromethane	Ave	0.3555	0.3246		1.83	2.00	-8.7	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.157	2.761		2.56	2.00	28.0	30.0
Acetaldehyde	Lin1		0.4107		8.59	10.0	-14.1	30.0
Vinyl chloride	Ave	1.057	1.108		2.10	2.00	4.8	30.0
Butane	Ave	1.690	1.639		1.94	2.00	-3.0	30.0
1,3-Butadiene	Ave	0.8499	0.8616		2.03	2.00	1.4	30.0
Bromomethane	Ave	0.9616	1.073		2.23	2.00	11.6	30.0
Chloroethane	Ave	0.4316	0.4189		1.94	2.00	-2.9	30.0
Ethanol	Ave	0.5270	0.5178		9.82	10.0	-1.8	30.0
Vinyl bromide	Ave	1.084	1.192		2.20	2.00	9.9	30.0
2-Methylbutane	Ave	1.723	1.532		1.78	2.00	-11.1	30.0
Trichlorofluoromethane	Ave	3.377	4.609		2.73	2.00	36.5*	30.0
Acrolein	Ave	0.4347	0.4638		2.13	2.00	6.7	30.0
Acetonitrile	Ave	0.6200	0.7978		2.57	2.00	28.7	30.0
Acetone	Lin1		0.7678		6.58	6.00	9.6	30.0
Isopropyl alcohol	Ave	1.957	2.417		7.41	6.00	23.5	30.0
Pentane	Ave	0.1721	0.1983		2.30	2.00	15.2	30.0
Ethyl ether	Ave	1.577	1.657		2.10	2.00	5.1	30.0
1,1-Dichloroethene	Ave	1.269	1.370		2.16	2.00	7.9	30.0
t-Butyl alcohol	Ave	2.357	2.880		2.44	2.00	22.2	30.0
Acrylonitrile	Ave	1.013	1.222		2.41	2.00	20.7	30.0
1,1,2-Trichlorotrifluoroethane	Ave	2.777	3.309		2.38	2.00	19.2	30.0
Methylene Chloride	Ave	1.122	1.324		2.36	2.00	18.0	30.0
3-Chloropropene	Ave	1.209	1.480		2.45	2.00	22.4	30.0
Carbon disulfide	Ave	3.458	4.329		2.50	2.00	25.2	30.0
trans-1,2-Dichloroethene	Ave	1.253	1.341		2.14	2.00	7.0	30.0
2-Methylpentane	Ave	3.482	3.833		2.20	2.00	10.1	30.0
Methyl tert-butyl ether	Ave	3.391	3.764		2.22	2.00	11.0	30.0
1,1-Dichloroethane	Ave	2.490	2.962		2.38	2.00	19.0	30.0
Vinyl acetate	Ave	3.728	3.775		2.03	2.00	1.3	30.0
2-Butanone	Ave	0.6685	0.6844		2.05	2.00	2.4	30.0
Hexane	Ave	1.093	1.228		2.25	2.00	12.3	30.0
Isopropyl ether	Ave	5.039	5.580		2.21	2.00	10.7	30.0
cis-1,2-Dichloroethene	Ave	1.356	1.447		2.13	2.00	6.7	30.0
Ethyl acetate	Ave	3.409	3.867		2.27	2.00	13.4	30.0
Chloroform	Ave	2.747	3.312		2.41	2.00	20.6	30.0
Tert-butyl ethyl ether	Ave	4.210	4.825		2.29	2.00	14.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab Sample ID: CCVIS 140-51316/2 Calibration Date: 06/30/2021 08:50

Instrument ID: MR Calib Start Date: 06/19/2021 09:57

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 06/19/2021 18:49

Lab File ID: RCCVF30.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrahydrofuran	Ave	1.724	1.863		2.16	2.00	8.0	30.0
1,1,1-Trichloroethane	Ave	2.731	3.123		2.29	2.00	14.4	30.0
1,2-Dichloroethane	Ave	0.4142	0.5100		2.46	2.00	23.1	30.0
1-Butanol	Ave	0.1274	0.1384		2.17	2.00	8.6	30.0
Cyclohexane	Ave	0.1286	0.1392		2.17	2.00	8.3	30.0
Benzene	Ave	0.8147	0.9394		2.31	2.00	15.3	30.0
Carbon tetrachloride	Ave	0.5291	0.7426		2.81	2.00	40.4*	30.0
2,3-Dimethylpentane	Ave	0.1836	0.2097		2.28	2.00	14.2	30.0
Thiophene	Ave	0.4502	0.5294		2.35	2.00	17.6	30.0
2,2,4-Trimethylpentane	Ave	1.458	1.648		2.26	2.00	13.1	30.0
Heptane	Ave	0.2807	0.3125		2.23	2.00	11.3	30.0
1,2-Dichloropropane	Ave	0.3501	0.4254		2.43	2.00	21.5	30.0
Trichloroethene	Ave	0.3689	0.3872		2.10	2.00	4.9	30.0
Dibromomethane	Ave	0.3455	0.4274		2.47	2.00	23.7	30.0
1,4-Dioxane	Ave	0.1239	0.1419		2.29	2.00	14.6	30.0
Bromodichloromethane	Ave	0.5423	0.6908		2.55	2.00	27.4	30.0
Methyl methacrylate	Ave	0.4424	0.5043		2.28	2.00	14.0	30.0
Methylcyclohexane	Ave	0.5000	0.5366		2.15	2.00	7.3	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7965	0.9229		2.32	2.00	15.9	30.0
cis-1,3-Dichloropropene	Ave	0.4629	0.5408		2.34	2.00	16.8	30.0
trans-1,3-Dichloropropene	Ave	0.4222	0.5079		2.41	2.00	20.3	30.0
Toluene	Ave	1.105	1.217		2.20	2.00	10.1	30.0
1,1,2-Trichloroethane	Ave	0.3395	0.4097		2.41	2.00	20.7	30.0
2-Hexanone	Ave	0.3656	0.4140		2.27	2.00	13.3	30.0
Octane	Ave	0.3177	0.3639		2.29	2.00	14.5	30.0
Dibromochloromethane	Ave	0.5650	0.7209		2.55	2.00	27.6	30.0
1,2-Dibromoethane	Ave	0.5773	0.6676		2.31	2.00	15.7	30.0
Tetrachloroethene	Ave	0.4089	0.4521		2.21	2.00	10.6	30.0
Chlorobenzene	Ave	0.8185	0.9666		2.36	2.00	18.1	30.0
2,3-Dimethylheptane	Ave	1.263	1.505		2.38	2.00	19.1	30.0
Ethylbenzene	Ave	1.418	1.626		2.29	2.00	14.7	30.0
m-Xylene & p-Xylene	Ave	1.119	1.333		4.76	4.00	19.1	30.0
Nonane	Ave	0.7315	0.8804		2.41	2.00	20.4	30.0
Bromoform	Ave	0.5883	0.7874		2.68	2.00	33.8*	30.0
Styrene	Ave	0.7373	0.9288		2.52	2.00	26.0	30.0
o-Xylene	Ave	1.175	1.420		2.42	2.00	20.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8277	1.031		2.49	2.00	24.5	30.0
1,2,3-Trichloropropane	Ave	0.2092	0.2507		2.40	2.00	19.8	30.0
Isopropylbenzene	Ave	1.533	1.844		2.41	2.00	20.3	30.0
Propylbenzene	Ave	0.4303	0.5112		2.38	2.00	18.8	30.0
2-Chlorotoluene	Ave	0.3931	0.4744		2.41	2.00	20.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab Sample ID: CCVIS 140-51316/2 Calibration Date: 06/30/2021 08:50

Instrument ID: MR Calib Start Date: 06/19/2021 09:57

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 06/19/2021 18:49

Lab File ID: RCCVF30.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Ethyltoluene	Ave	1.584	1.865		2.35	2.00	17.7	30.0
1,3,5-Trimethylbenzene	Ave	0.6421	0.7730		2.41	2.00	20.4	30.0
Alpha Methyl Styrene	Ave	0.6243	0.7468		2.39	2.00	19.6	30.0
Decane	Ave	0.9760	1.267		2.60	2.00	29.8	30.0
tert-Butylbenzene	Ave	1.389	1.773		2.55	2.00	27.6	30.0
1,2,4-Trimethylbenzene	Ave	1.351	1.779		2.63	2.00	31.6*	30.0
sec-Butylbenzene	Ave	1.943	2.491		2.56	2.00	28.2	30.0
1,3-Dichlorobenzene	Ave	0.8962	1.087		2.43	2.00	21.3	30.0
Benzyl chloride	Ave	0.9474	1.297		2.74	2.00	36.9*	30.0
1,4-Dichlorobenzene	Ave	0.8738	1.053		2.41	2.00	20.5	30.0
4-Isopropyltoluene	Ave	1.609	2.056		2.56	2.00	27.8	30.0
1,2,3-Trimethylbenzene	Ave	1.395	1.808		2.59	2.00	29.6	30.0
Butylcyclohexane	Ave	1.103	1.500		2.72	2.00	35.9*	30.0
Indane	Ave	1.277	1.682		2.63	2.00	31.7*	30.0
1,2-Dichlorobenzene	Ave	0.8934	1.110		2.49	2.00	24.3	30.0
Butylbenzene	Ave	1.605	2.260		2.82	2.00	40.9*	30.0
Indene	Ave	1.043	1.416		2.71	2.00	35.7*	30.0
Undecane	Ave	1.137	1.499		2.64	2.00	31.9*	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.4441	0.5571		2.51	2.00	25.5	30.0
1,2,4,5-Tetramethylbenzene	Ave	1.579	1.959		2.48	2.00	24.1	30.0
Dodecane	Ave	1.172	1.467		2.50	2.00	25.2	30.0
1,2,4-Trichlorobenzene	Ave	0.8492	0.8248		1.94	2.00	-2.9	30.0
Naphthalene	Lin2		1.834		2.26	2.00	13.1	30.0
Hexachlorobutadiene	Ave	0.9594	1.087		2.27	2.00	13.3	30.0
1,2,3-Trichlorobenzene	Ave	0.8476	0.9066		2.14	2.00	7.0	30.0
2-Methylnaphthalene	Ave	0.4599	0.9013		3.92	2.00	96.0*	50.0
1-Methylnaphthalene	Ave	0.5009	1.122		4.48	2.00	124.0*	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7502	0.8377		5.18	4.64	11.7	30.0

Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RCCVF30.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 30-Jun-2021 08:50:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019757-002
Misc. Info.: P140 100ML
Operator ID: HMT Instrument ID: MR
Sublist: chrom-MR_TO15*sub16

Method: \\chromfs\Knoxville\ChromData\MR\20210629-19757.b\MR_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 01-Jul-2021 14:02:22 Calib Date: 19-Jun-2021 18:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: khachitpongpanits Date: 01-Jul-2021 14:02:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.786	8.786	0.000	95	284908	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.003	11.003	0.000	96	1350914	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	15.824	15.824	0.000	89	1228118	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.474	17.474	0.000	89	994444	4.64	5.18	
6 Chlorodifluoromethane	51	3.545	3.545	0.000	97	340391	2.00	2.49	
7 Propene	41	3.556	3.556	0.000	99	159956	2.00	2.13	
8 Dichlorodifluoromethane	85	3.604	3.604	0.000	100	516375	2.00	2.48	
9 Chloromethane	52	3.788	3.788	0.000	55	38539	2.00	1.83	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.793	3.793	0.000	90	327815	2.00	2.56	
11 Acetaldehyde	44	3.944	3.944	0.000	94	243749	10.0	8.59	
12 Vinyl chloride	62	3.960	3.960	0.000	99	131490	2.00	2.10	
13 Butane	43	4.047	4.047	0.000	79	194625	2.00	1.94	
14 Butadiene	54	4.052	4.052	0.000	74	102279	2.00	2.03	
15 Bromomethane	94	4.376	4.376	0.000	96	127412	2.00	2.23	
16 Chloroethane	64	4.516	4.516	0.000	77	49726	2.00	1.94	
17 Ethanol	31	4.602	4.602	0.000	95	307325	10.0	9.82	
18 Vinyl bromide	106	4.823	4.823	0.000	96	141491	2.00	2.20	
19 2-Methylbutane	43	4.872	4.872	0.000	89	181911	2.00	1.78	
20 Trichlorofluoromethane	101	5.098	5.098	0.000	99	547127	2.00	2.73	
21 Acrolein	56	5.109	5.109	0.000	94	55062	2.00	2.13	
22 Acetonitrile	40	5.174	5.174	0.000	99	94714	2.00	2.57	
23 Acetone	58	5.217	5.217	0.000	99	273430	6.00	6.58	
24 Isopropyl alcohol	45	5.298	5.298	0.000	97	860892	6.00	7.41	
25 Pentane	72	5.325	5.325	0.000	95	23542	2.00	2.30	
26 Ethyl ether	31	5.486	5.486	0.000	93	196677	2.00	2.10	
27 1,1-Dichloroethene	96	5.821	5.821	0.000	93	162675	2.00	2.16	
28 2-Methyl-2-propanol	59	5.907	5.907	0.000	97	341836	2.00	2.44	
29 Acrylonitrile	53	5.934	5.934	0.000	97	145055	2.00	2.41	
30 112TCTFE	101	5.999	5.999	0.000	94	392857	2.00	2.38	
31 Methylene Chloride	84	6.182	6.182	0.000	94	157222	2.00	2.36	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.193	6.193	0.000	96	175729	2.00	2.45	
33 Carbon disulfide	76	6.344	6.344	0.000	99	513858	2.00	2.50	
34 trans-1,2-Dichloroethene	96	7.007	7.007	0.000	93	159234	2.00	2.14	
35 2-Methylpentane	43	7.023	7.023	0.000	95	455059	2.00	2.20	
36 Methyl tert-butyl ether	73	7.126	7.126	0.000	96	446852	2.00	2.22	
37 1,1-Dichloroethane	63	7.444	7.444	0.000	99	351573	2.00	2.38	
38 Vinyl acetate	43	7.546	7.546	0.000	100	448115	2.00	2.03	
39 2-Butanone (MEK)	72	7.999	7.999	0.000	96	81251	2.00	2.05	
40 Hexane	56	8.021	8.021	0.000	88	145728	2.00	2.25	
41 Isopropyl ether	45	8.177	8.177	0.000	95	662355	2.00	2.21	
42 cis-1,2-Dichloroethene	96	8.452	8.452	0.000	98	171747	2.00	2.13	
43 Ethyl acetate	43	8.625	8.625	0.000	98	459040	2.00	2.27	
44 Chloroform	83	8.797	8.797	0.000	96	393155	2.00	2.41	
45 Tert-butyl ethyl ether	59	8.867	8.867	0.000	98	572728	2.00	2.29	
46 Tetrahydrofuran	42	9.191	9.191	0.000	93	221120	2.00	2.16	
47 1,1,1-Trichloroethane	97	9.838	9.838	0.000	95	370711	2.00	2.29	
48 1,2-Dichloroethane	62	9.957	9.957	0.000	96	287060	2.00	2.46	
49 n-Butanol	31	10.383	10.383	0.000	92	77884	2.00	2.17	
50 Cyclohexane	69	10.447	10.447	0.000	93	78354	2.00	2.17	
51 Benzene	78	10.453	10.453	0.000	97	528750	2.00	2.31	
52 Carbon tetrachloride	117	10.469	10.469	0.000	94	417983	2.00	2.81	
53 2,3-Dimethylpentane	71	10.561	10.561	0.000	91	118024	2.00	2.28	
54 Thiophene	84	10.728	10.728	0.000	97	297985	2.00	2.35	
55 Isooctane	57	11.213	11.213	0.000	96	927810	2.00	2.26	
56 n-Heptane	71	11.591	11.591	0.000	94	175873	2.00	2.23	
57 1,2-Dichloropropane	63	11.688	11.688	0.000	90	239422	2.00	2.43	
58 Trichloroethene	130	11.725	11.725	0.000	91	217926	2.00	2.10	
59 Dibromomethane	93	11.812	11.812	0.000	92	240569	2.00	2.47	
60 Dichlorobromomethane	83	11.963	11.963	0.000	97	388827	2.00	2.55	
61 1,4-Dioxane	88	11.963	11.963	0.000	95	79885	2.00	2.29	
62 Methyl methacrylate	41	12.049	12.049	0.000	89	283867	2.00	2.28	
63 Methylcyclohexane	83	12.507	12.507	0.000	91	302062	2.00	2.15	
64 4-Methyl-2-pentanone (MIBK)	43	12.922	12.922	0.000	98	519484	2.00	2.32	
65 cis-1,3-Dichloropropene	75	12.993	12.993	0.000	99	304418	2.00	2.34	
66 trans-1,3-Dichloropropene	75	13.704	13.704	0.000	96	259878	2.00	2.41	
67 Toluene	91	13.828	13.828	0.000	92	622689	2.00	2.20	
68 1,1,2-Trichloroethane	83	13.909	13.909	0.000	94	209674	2.00	2.41	
69 2-Hexanone	58	14.287	14.287	0.000	91	211873	2.00	2.27	
70 n-Octane	85	14.519	14.519	0.000	96	186191	2.00	2.29	
71 Chlorodibromomethane	129	14.621	14.621	0.000	96	368915	2.00	2.55	
72 Ethylene Dibromide	107	14.918	14.918	0.000	97	341633	2.00	2.31	
73 Tetrachloroethene	129	14.988	14.988	0.000	93	231350	2.00	2.21	
74 Chlorobenzene	112	15.872	15.872	0.000	91	494602	2.00	2.36	
75 2,3-Dimethylheptane	43	15.883	15.883	0.000	94	769931	2.00	2.38	
76 Ethylbenzene	91	16.163	16.163	0.000	99	831837	2.00	2.29	
77 m-Xylene & p-Xylene	91	16.320	16.320	0.000	98	1363984	4.00	4.76	
78 n-Nonane	57	16.735	16.735	0.000	95	450522	2.00	2.41	
79 Bromoform	173	16.783	16.783	0.000	95	402935	2.00	2.68	
80 Styrene	104	16.789	16.789	0.000	99	475271	2.00	2.52	
81 o-Xylene	91	16.848	16.848	0.000	99	726504	2.00	2.42	
82 1,1,2,2-Tetrachloroethane	83	17.177	17.177	0.000	98	527455	2.00	2.49	
83 1,2,3-Trichloropropane	110	17.339	17.339	0.000	95	128276	2.00	2.40	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Isopropylbenzene	105	17.436	17.436	0.000	95	943499	2.00	2.41	
85 N-Propylbenzene	120	17.975	17.975	0.000	99	261571	2.00	2.38	
86 2-Chlorotoluene	126	18.024	18.024	0.000	98	242740	2.00	2.41	
88 4-Ethyltoluene	105	18.121	18.121	0.000	98	954335	2.00	2.35	
87 1,3,5-Trimethylbenzene	120	18.196	18.196	0.000	91	395532	2.00	2.41	
89 Alpha Methyl Styrene	118	18.423	18.423	0.000	88	382161	2.00	2.39	
90 n-Decane	57	18.471	18.471	0.000	88	648461	2.00	2.60	
91 tert-Butylbenzene	119	18.617	18.617	0.000	90	907331	2.00	2.55	
92 1,2,4-Trimethylbenzene	105	18.628	18.628	0.000	97	910091	2.00	2.63	
93 sec-Butylbenzene	105	18.881	18.881	0.000	99	1274782	2.00	2.56	
94 1,3-Dichlorobenzene	146	18.903	18.903	0.000	97	556358	2.00	2.43	
95 Benzyl chloride	91	18.978	18.978	0.000	97	663628	2.00	2.74	
96 1,4-Dichlorobenzene	146	18.989	18.989	0.000	95	538919	2.00	2.41	
97 4-Isopropyltoluene	119	19.043	19.043	0.000	97	1051919	2.00	2.56	
98 1,2,3-Trimethylbenzene	105	19.097	19.097	0.000	99	925099	2.00	2.59	
99 Butylcyclohexane	83	19.151	19.151	0.000	92	767538	2.00	2.72	
100 2,3-Dihydroindene	117	19.345	19.345	0.000	93	860622	2.00	2.63	
101 1,2-Dichlorobenzene	146	19.350	19.350	0.000	96	568050	2.00	2.49	
103 n-Butylbenzene	91	19.474	19.474	0.000	94	1156694	2.00	2.82	
102 Indene	116	19.474	19.474	0.000	76	724564	2.00	2.71	
104 Undecane	57	19.771	19.771	0.000	95	766940	2.00	2.64	
105 1,2-Dibromo-3-Chloropropane	157	19.949	19.949	0.000	94	285100	2.00	2.51	
106 1,2,4,5-Tetramethylbenzene	119	20.224	20.224	0.000	96	1002647	2.00	2.48	
107 Dodecane	57	20.833	20.833	0.000	92	750563	2.00	2.50	
108 1,2,4-Trichlorobenzene	180	21.049	21.049	0.000	94	422079	2.00	1.94	
109 Naphthalene	128	21.194	21.194	0.000	99	938354	2.00	2.26	
110 Hexachlorobutadiene	225	21.405	21.405	0.000	95	556129	2.00	2.27	
111 1,2,3-Trichlorobenzene	180	21.480	21.480	0.000	94	463925	2.00	2.14	
112 2-Methylnaphthalene	142	22.100	22.100	0.000	99	461245	2.00	3.92	
113 1-Methylnaphthalene	142	22.224	22.224	0.000	99	574256	2.00	4.48	
A 116 C8 Range	1	14.516	(14.470-14.578)		0	2077584	2.00	2.32	
S 117 Xylenes, Total	100				0		6.00	7.18	
S 118 1,2-Dichloroethene, Total	1				0		4.00	4.27	

QC Flag Legend

Processing Flags

Reagents:

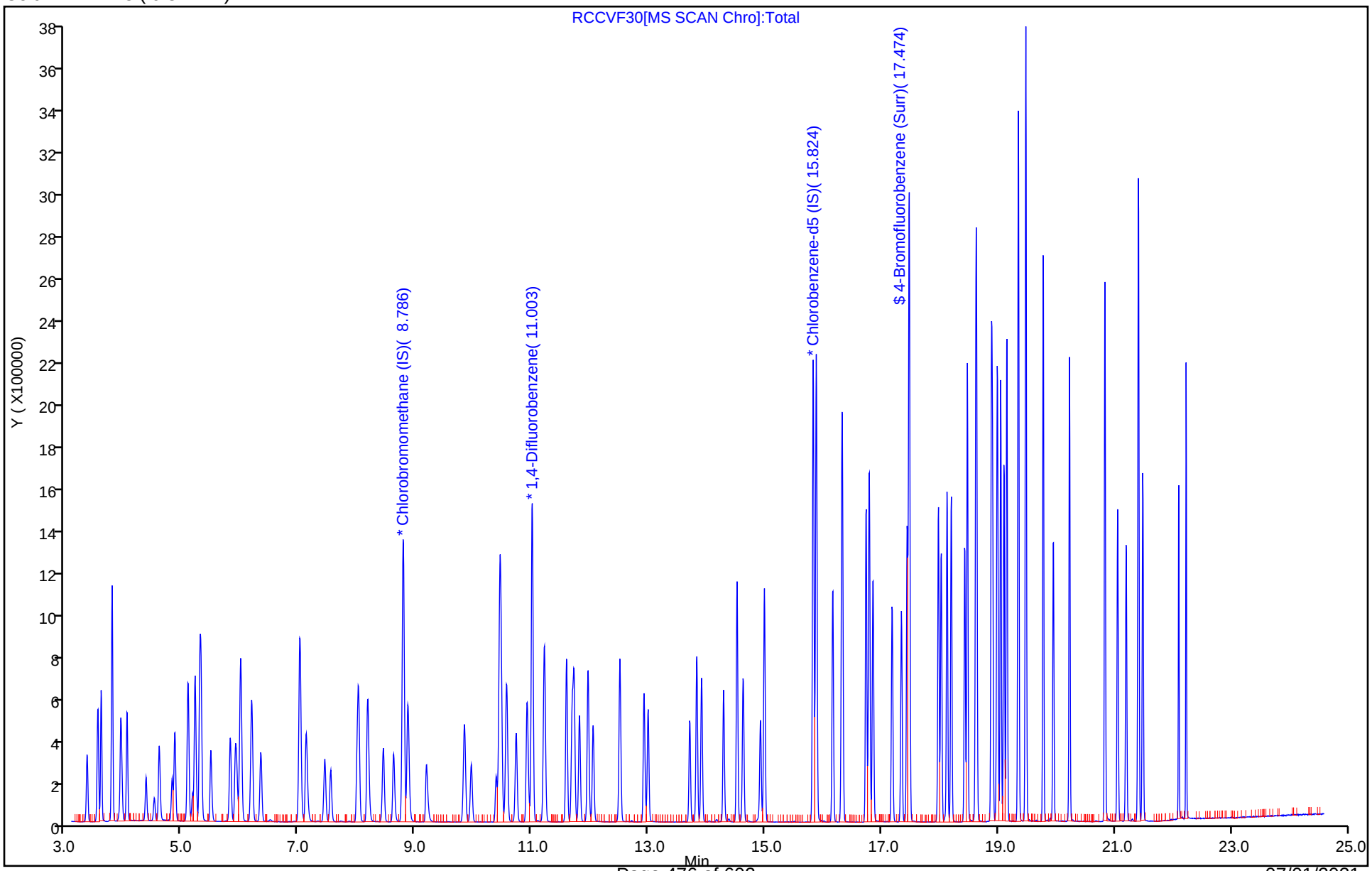
40CV101P_00140	Amount Added: 100.00	Units: ml	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

Report Date: 01-Jul-2021 14:02:23 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RCCVF30.D				
Injection Date:	30-Jun-2021 08:50:30	Instrument ID:	MR	Operator ID:	HMT
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab Sample ID: ICV 140-50646/17 Calibration Date: 06/10/2021 01:28

Instrument ID: MS Calib Start Date: 06/09/2021 14:14

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 06/09/2021 23:44

Lab File ID: SF09ICV.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	2.707	2.725		1.61	1.60	0.7	35.0
Propene	Ave	1.152	1.121		1.56	1.60	-2.7	35.0
Dichlorodifluoromethane	Ave	3.798	3.942		1.66	1.60	3.8	35.0
Chloromethane	Ave	0.5627	0.5692		1.62	1.60	1.1	35.0
1,2-Dichlorotetrafluoroethane	Ave	3.530	3.456		1.57	1.60	-2.1	35.0
Acetaldehyde	Ave	0.7903	0.6162		6.24	8.00	-22.0	35.0
Vinyl chloride	Ave	1.793	1.885		1.68	1.60	5.1	35.0
Butane	Ave	2.051	2.367		1.85	1.60	15.4	35.0
1,3-Butadiene	Ave	1.253	1.395		1.78	1.60	11.3	35.0
Bromomethane	Ave	1.500	1.581		1.69	1.60	5.4	35.0
Chloroethane	Ave	0.6048	0.6662		1.76	1.60	10.1	35.0
Ethanol	Ave	0.4300	0.3668		6.82	8.00	-14.7	35.0
Vinyl bromide	Ave	1.524	1.706		1.79	1.60	11.9	35.0
2-Methylbutane	Ave	1.682	1.633		1.55	1.60	-2.9	35.0
Trichlorofluoromethane	Ave	3.766	3.804		1.62	1.60	1.0	35.0
Acrolein	Ave	0.5384	0.5671		1.69	1.60	5.3	35.0
Acetonitrile	Ave	0.6033	0.5819		1.54	1.60	-3.5	35.0
Acetone	Lin		0.9229			1.60	-14.4	35.0
Isopropyl alcohol	Ave	1.897	2.219		1.87	1.60	16.9	35.0
Pentane	Ave	0.1570	0.1571		1.60	1.60	0.1	35.0
Ethyl ether	Ave	1.284	1.357		1.69	1.60	5.7	35.0
1,1-Dichloroethene	Ave	1.372	1.371		1.60	1.60	-0.0	35.0
t-Butyl alcohol	Ave	2.571	2.583		1.61	1.60	0.5	35.0
Acrylonitrile	Ave	1.213	1.231		1.62	1.60	1.5	35.0
1,1,2-Trichlorotrifluoroethane	Ave	3.210	3.273		1.63	1.60	2.0	35.0
Methylene Chloride	Ave	1.359	1.305		1.54	1.60	-3.9	35.0
3-Chloropropene	Ave	1.017	1.152		1.81	1.60	13.3	35.0
Carbon disulfide	Ave	4.179	4.101		1.57	1.60	-1.9	35.0
trans-1,2-Dichloroethene	Ave	1.351	1.367		1.62	1.60	1.1	35.0
2-Methylpentane	Ave	3.221	3.004		1.49	1.60	-6.7	35.0
Methyl tert-butyl ether	Ave	3.378	3.554		1.68	1.60	5.2	35.0
1,1-Dichloroethane	Ave	2.948	2.942		1.60	1.60	-0.2	35.0
Vinyl acetate	Ave	3.084	3.353		1.74	1.60	8.7	35.0
2-Butanone	Ave	0.6868	0.6309		1.47	1.60	-8.2	35.0
Hexane	Ave	1.179	1.200		1.63	1.60	1.8	35.0
Isopropyl ether	Ave	4.807	5.095		1.70	1.60	6.0	35.0
cis-1,2-Dichloroethene	Ave	1.419	1.463		1.65	1.60	3.1	35.0
Ethyl acetate	Ave	3.185	3.083		1.55	1.60	-3.2	35.0
Chloroform	Ave	3.102	3.103		1.60	1.60	0.0	35.0
Tert-butyl ethyl ether	Ave	4.604	4.543		1.58	1.60	-1.3	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab Sample ID: ICV 140-50646/17 Calibration Date: 06/10/2021 01:28

Instrument ID: MS Calib Start Date: 06/09/2021 14:14

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 06/09/2021 23:44

Lab File ID: SF09ICV.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrahydrofuran	Ave	1.509	1.572		1.67	1.60	4.2	35.0
1,1,1-Trichloroethane	Ave	2.826	2.854		1.62	1.60	1.0	35.0
1,2-Dichloroethane	Ave	0.3990	0.3980		1.60	1.60	-0.2	35.0
1-Butanol	Ave	0.0866	0.0812		1.50	1.60	-6.3	35.0
Benzene	Ave	0.9106	0.9084		1.60	1.60	-0.2	35.0
Cyclohexane	Ave	0.1262	0.1340		1.70	1.60	6.1	35.0
Carbon tetrachloride	Ave	0.5751	0.6159		1.71	1.60	7.1	35.0
2,3-Dimethylpentane	Ave	0.1710	0.1743		1.63	1.60	2.0	35.0
Thiophene	Ave	0.4997	0.5014		1.61	1.60	0.3	35.0
2,2,4-Trimethylpentane	Ave	1.579	1.653		1.68	1.60	4.7	35.0
Heptane	Ave	0.2560	0.2753		1.72	1.60	7.5	35.0
1,2-Dichloropropane	Ave	0.4098	0.4111		1.60	1.60	0.3	35.0
Trichloroethene	Ave	0.4043	0.4068		1.61	1.60	0.6	35.0
Dibromomethane	Ave	0.3918	0.3858		1.58	1.60	-1.5	35.0
Bromodichloromethane	Ave	0.5969	0.6103		1.64	1.60	2.3	35.0
1,4-Dioxane	Ave	0.1247	0.1225		1.57	1.60	-1.8	35.0
Methyl methacrylate	Ave	0.3460	0.3489		1.61	1.60	0.8	35.0
Methylcyclohexane	LinF		0.6359		1.86	1.60	16.2	35.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6635	0.6821		1.64	1.60	2.8	35.0
cis-1,3-Dichloropropene	Ave	0.4727	0.4931		1.67	1.60	4.3	35.0
trans-1,3-Dichloropropene	Ave	0.4589	0.4906		1.71	1.60	6.9	35.0
Toluene	Ave	1.232	1.256		1.63	1.60	1.9	35.0
1,1,2-Trichloroethane	Ave	0.4113	0.4041		1.57	1.60	-1.8	35.0
2-Hexanone	Ave	0.4084	0.4225		1.66	1.60	3.5	35.0
Octane	Ave	0.3039	0.3325		1.75	1.60	9.4	35.0
Dibromochloromethane	Ave	0.7414	0.7538		1.63	1.60	1.7	35.0
1,2-Dibromoethane	Ave	0.7027	0.6968		1.59	1.60	-0.8	35.0
Tetrachloroethene	Ave	0.4961	0.4889		1.58	1.60	-1.5	35.0
2,3-Dimethylheptane	Ave	1.166	1.124		1.54	1.60	-3.6	35.0
Chlorobenzene	Ave	1.054	1.055		1.60	1.60	0.0	35.0
Ethylbenzene	Ave	1.528	1.585		1.66	1.60	3.8	35.0
m-Xylene & p-Xylene	Ave	1.228	1.294		3.37	3.20	5.4	35.0
Nonane	Ave	0.8270	0.8966		1.73	1.60	8.4	35.0
Bromoform	Ave	0.7934	0.8373		1.69	1.60	5.5	35.0
Styrene	Ave	0.9091	0.9418		1.66	1.60	3.6	35.0
o-Xylene	Ave	1.257	1.294		1.65	1.60	3.0	35.0
1,1,2,2-Tetrachloroethane	Ave	0.9793	0.9747		1.59	1.60	-0.5	35.0
1,2,3-Trichloropropane	Ave	0.2092	0.2202		1.68	1.60	5.2	35.0
Isopropylbenzene	Ave	1.741	1.860		1.71	1.60	6.8	35.0
Propylbenzene	Ave	0.4671	0.5024		1.72	1.60	7.5	35.0
2-Chlorotoluene	Ave	0.4639	0.4762		1.64	1.60	2.7	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab Sample ID: ICV 140-50646/17 Calibration Date: 06/10/2021 01:28

Instrument ID: MS Calib Start Date: 06/09/2021 14:14

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 06/09/2021 23:44

Lab File ID: SF09ICV.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Ethyltoluene	Ave	1.793	1.794		1.60	1.60	0.0	35.0
1,3,5-Trimethylbenzene	Ave	0.7038	0.8387		1.91	1.60	19.2	35.0
Alpha Methyl Styrene	Ave	0.7222	0.7223		1.60	1.60	0.0	35.0
Decane	Ave	1.138	1.232		1.73	1.60	8.3	35.0
tert-Butylbenzene	Ave	1.608	1.660		1.65	1.60	3.2	35.0
1,2,4-Trimethylbenzene	Ave	1.597	1.647		1.65	1.60	3.2	35.0
sec-Butylbenzene	Ave	2.326	2.374		1.63	1.60	2.1	35.0
1,3-Dichlorobenzene	Ave	1.217	1.158		1.52	1.60	-4.9	35.0
Benzyl chloride	Ave	1.120	1.137		1.62	1.60	1.5	35.0
1,4-Dichlorobenzene	Ave	1.201	1.134		1.51	1.60	-5.5	35.0
4-Isopropyltoluene	Ave	1.846	1.859		1.61	1.60	0.7	35.0
1,2,3-Trimethylbenzene	Ave	1.598	1.227		1.23	1.60	-23.2	35.0
Butylcyclohexane	Ave	1.261	1.257		1.60	1.60	-0.3	35.0
Indane	Ave	1.540	1.567		1.63	1.60	1.8	35.0
1,2-Dichlorobenzene	Ave	1.222	1.163		1.52	1.60	-4.8	35.0
Butylbenzene	Ave	1.928	1.987		1.65	1.60	3.1	35.0
Indene	Ave	1.250	1.135		1.45	1.60	-9.2	35.0
Undecane	Ave	1.293	1.348		1.67	1.60	4.3	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.5167	0.4137		1.28	1.60	-19.9	35.0
1,2,4,5-Tetramethylbenzene	Ave	1.815	1.682		1.48	1.60	-7.4	35.0
Dodecane	Ave	1.358	1.281		1.51	1.60	-5.7	35.0
1,2,4-Trichlorobenzene	Ave	0.9550	0.8185		1.37	1.60	-14.3	35.0
Naphthalene	Lin1F		1.740		1.23	1.60	-23.2	35.0
Hexachlorobutadiene	Ave	1.453	1.286		1.42	1.60	-11.5	35.0
1,2,3-Trichlorobenzene	Ave	1.015	0.9053		1.43	1.60	-10.8	35.0
2-Methylnaphthalene	Ave	0.5075	0.3571		1.13	1.60	-29.6	50.0
1-Methylnaphthalene	Ave	0.5642	0.4027		1.14	1.60	-28.6	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7409	0.7542		4.72	4.64	1.8	35.0

Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09ICV.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 10-Jun-2021 01:28:30 ALS Bottle#: 18 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019525-017
Misc. Info.: S147 80ML
Operator ID: HMT Instrument ID: MS
Sublist:

Method: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\MS_TO15A.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 10-Jun-2021 10:20:12 Calib Date: 09-Jun-2021 23:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1623

First Level Reviewer: tajh Date: 10-Jun-2021 07:17:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.228	9.228	0.000	98	223156	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.401	11.401	0.000	94	1116504	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	16.071	16.071	0.000	86	962998	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.712	17.712	0.000	97	702053	4.64	4.72	
6 Chlorodifluoromethane	51	3.816	3.811	0.005	96	202728	1.60	1.61	
7 Propene	41	3.827	3.822	0.005	99	83362	1.60	1.56	
8 Dichlorodifluoromethane	85	3.886	3.881	0.005	100	293248	1.60	1.66	
9 Chloromethane	52	4.080	4.074	0.006	99	42337	1.60	1.62	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.091	4.080	0.011	89	257093	1.60	1.57	
11 Acetaldehyde	44	4.247	4.241	0.006	87	229170	8.00	6.24	
12 Vinyl chloride	62	4.268	4.263	0.005	98	140199	1.60	1.68	
13 Butadiene	54	4.365	4.354	0.011	69	103732	1.60	1.78	
14 Butane	43	4.360	4.360	0.000	86	176051	1.60	1.85	
15 Bromomethane	94	4.715	4.704	0.011	99	117619	1.60	1.69	
16 Chloroethane	64	4.860	4.860	0.000	96	49553	1.60	1.76	
17 Ethanol	31	4.946	4.941	0.005	88	136433	8.00	6.82	
18 Vinyl bromide	106	5.188	5.183	0.005	99	126923	1.60	1.79	
19 2-Methylbutane	43	5.242	5.236	0.006	90	121454	1.60	1.55	
20 Trichlorofluoromethane	101	5.473	5.468	0.005	99	282934	1.60	1.62	
21 Acrolein	56	5.479	5.479	0.000	34	42181	1.60	1.69	
22 Acetonitrile	40	5.548	5.543	0.005	100	43288	1.60	1.54	
23 Acetone	58	5.602	5.591	0.011	96	68649	1.60	1.37	
24 Isopropyl alcohol	45	5.678	5.672	0.006	94	165026	1.60	1.87	
25 Pentane	72	5.715	5.704	0.011	95	11688	1.60	1.60	
26 Ethyl ether	31	5.877	5.871	0.006	95	100968	1.60	1.69	
27 1,1-Dichloroethene	96	6.221	6.221	0.000	94	101985	1.60	1.60	
29 2-Methyl-2-propanol	59	6.312	6.307	0.005	93	192166	1.60	1.61	
28 Acrylonitrile	53	6.329	6.328	0.000	96	91605	1.60	1.62	
30 112TCTFE	101	6.404	6.404	0.000	98	243437	1.60	1.63	
31 Methylene Chloride	84	6.592	6.592	0.000	98	97106	1.60	1.54	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.608	6.603	0.005	95	85685	1.60	1.81	
33 Carbon disulfide	76	6.770	6.764	0.006	98	305057	1.60	1.57	
34 trans-1,2-Dichloroethene	96	7.442	7.431	0.011	95	101656	1.60	1.62	
35 2-Methylpentane	43	7.447	7.447	0.000	96	223450	1.60	1.49	
36 Methyl tert-butyl ether	73	7.555	7.544	0.011	97	264337	1.60	1.68	
37 1,1-Dichloroethane	63	7.878	7.872	0.006	99	218842	1.60	1.60	
38 Vinyl acetate	43	7.969	7.964	0.005	100	249384	1.60	1.74	
39 2-Butanone (MEK)	72	8.427	8.427	0.000	97	46926	1.60	1.47	
40 Hexane	56	8.464	8.464	0.000	89	89233	1.60	1.63	
41 Isopropyl ether	45	8.615	8.609	0.006	98	378989	1.60	1.70	
42 cis-1,2-Dichloroethene	96	8.889	8.884	0.005	98	108862	1.60	1.65	
43 Ethyl acetate	43	9.056	9.051	0.005	99	229353	1.60	1.55	
44 Chloroform	83	9.233	9.233	0.000	95	230793	1.60	1.60	
45 Tert-butyl ethyl ether	59	9.309	9.303	0.006	94	337922	1.60	1.58	
46 Tetrahydrofuran	42	9.632	9.626	0.006	94	116942	1.60	1.67	
47 1,1,1-Trichloroethane	97	10.288	10.282	0.006	97	212271	1.60	1.62	
48 1,2-Dichloroethane	62	10.395	10.395	0.000	96	148118	1.60	1.60	
49 n-Butanol	31	10.815	10.804	0.011	86	30212	1.60	1.50	
51 Benzene	78	10.874	10.874	0.000	97	338070	1.60	1.60	
50 Cyclohexane	69	10.874	10.874	0.000	67	49852	1.60	1.70	
52 Carbon tetrachloride	117	10.896	10.896	0.000	97	229218	1.60	1.71	
53 2,3-Dimethylpentane	71	10.993	10.982	0.011	92	64887	1.60	1.63	
54 Thiophene	84	11.149	11.149	0.000	97	186603	1.60	1.61	
55 Isooctane	57	11.617	11.611	0.006	98	615111	1.60	1.68	
56 n-Heptane	71	11.977	11.977	0.000	91	102454	1.60	1.72	
57 1,2-Dichloropropane	63	12.074	12.074	0.000	97	152998	1.60	1.60	
58 Trichloroethene	130	12.106	12.106	0.000	95	151400	1.60	1.61	
59 Dibromomethane	93	12.192	12.198	-0.006	95	143594	1.60	1.58	
61 1,4-Dioxane	88	12.343	12.332	0.011	39	45592	1.60	1.57	
60 Dichlorobromomethane	83	12.337	12.337	0.000	99	227135	1.60	1.64	
62 Methyl methacrylate	41	12.407	12.413	-0.006	95	129851	1.60	1.61	
63 Methylcyclohexane	83	12.865	12.865	0.000	94	236667	1.60	1.86	
64 4-Methyl-2-pentanone (MIBK)	43	13.247	13.247	0.000	96	253850	1.60	1.64	
65 cis-1,3-Dichloropropene	75	13.317	13.317	0.000	93	183508	1.60	1.67	
66 trans-1,3-Dichloropropene	75	14.000	14.000	0.000	97	157491	1.60	1.71	
67 Toluene	91	14.124	14.123	0.001	92	403127	1.60	1.63	
68 1,1,2-Trichloroethane	83	14.199	14.199	0.000	95	129719	1.60	1.57	
69 2-Hexanone	58	14.565	14.559	0.006	94	135631	1.60	1.66	
70 n-Octane	85	14.785	14.785	0.000	93	106726	1.60	1.75	
71 Chlorodibromomethane	129	14.898	14.898	0.000	98	241970	1.60	1.63	
72 Ethylene Dibromide	107	15.183	15.189	-0.006	99	223681	1.60	1.59	
73 Tetrachloroethene	129	15.253	15.253	0.000	98	156933	1.60	1.58	
75 Chlorobenzene	112	16.119	16.119	0.000	91	338537	1.60	1.60	
74 2,3-Dimethylheptane	43	16.119	16.119	0.000	94	360670	1.60	1.54	
76 Ethylbenzene	91	16.399	16.399	0.000	98	508875	1.60	1.66	
77 m-Xylene & p-Xylene	91	16.560	16.555	0.005	97	830718	3.20	3.37	
78 n-Nonane	57	16.959	16.964	-0.005	92	287795	1.60	1.73	
79 Bromoform	173	17.023	17.023	0.000	98	268785	1.60	1.69	
80 Styrene	104	17.028	17.028	0.000	98	302315	1.60	1.66	
81 o-Xylene	91	17.088	17.088	0.000	100	415409	1.60	1.65	
82 1,1,2,2-Tetrachloroethane	83	17.416	17.416	0.000	98	312891	1.60	1.59	
83 1,2,3-Trichloropropane	110	17.583	17.577	0.006	98	70670	1.60	1.68	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Isopropylbenzene	105	17.679	17.679	0.000	94	596980	1.60	1.71	
85 N-Propylbenzene	120	18.212	18.212	0.000	99	161255	1.60	1.72	
86 2-Chlorotoluene	126	18.260	18.260	0.000	97	152870	1.60	1.64	
87 4-Ethyltoluene	105	18.357	18.357	0.000	99	575847	1.60	1.60	
88 1,3,5-Trimethylbenzene	120	18.433	18.427	0.006	92	269214	1.60	1.91	
89 Alpha Methyl Styrene	118	18.659	18.658	0.000	89	231843	1.60	1.60	
90 n-Decane	57	18.702	18.702	0.000	87	395552	1.60	1.73	
91 tert-Butylbenzene	119	18.852	18.852	0.000	93	532853	1.60	1.65	
92 1,2,4-Trimethylbenzene	105	18.863	18.863	0.000	96	528816	1.60	1.65	
93 sec-Butylbenzene	105	19.116	19.116	0.000	99	762086	1.60	1.63	
94 1,3-Dichlorobenzene	146	19.137	19.137	0.000	97	371641	1.60	1.52	
95 Benzyl chloride	91	19.213	19.213	0.000	98	365008	1.60	1.62	
96 1,4-Dichlorobenzene	146	19.223	19.223	0.000	96	364117	1.60	1.51	
97 4-Isopropyltoluene	119	19.277	19.277	0.000	97	596588	1.60	1.61	
98 1,2,3-Trimethylbenzene	105	19.331	19.331	0.000	98	394014	1.60	1.23	
99 Butylcyclohexane	83	19.379	19.379	0.000	94	403645	1.60	1.60	
100 2,3-Dihydroindene	117	19.578	19.578	0.000	93	503140	1.60	1.63	
101 1,2-Dichlorobenzene	146	19.584	19.584	0.000	86	373291	1.60	1.52	
102 n-Butylbenzene	91	19.702	19.702	0.000	97	637832	1.60	1.65	
103 Indene	116	19.708	19.708	0.000	89	364390	1.60	1.45	
104 Undecane	57	19.998	19.998	0.000	93	432827	1.60	1.67	
105 1,2-Dibromo-3-Chloropropane	157	20.176	20.176	0.000	96	132786	1.60	1.28	
106 1,2,4,5-Tetramethylbenzene	119	20.455	20.455	0.000	97	539782	1.60	1.48	
107 Dodecane	57	21.074	21.074	0.000	95	411140	1.60	1.51	
108 1,2,4-Trichlorobenzene	180	21.305	21.305	0.000	93	262745	1.60	1.37	
109 Naphthalene	128	21.456	21.456	0.000	99	558530	1.60	1.23	
110 Hexachlorobutadiene	225	21.644	21.644	0.000	92	412810	1.60	1.42	
111 1,2,3-Trichlorobenzene	180	21.709	21.709	0.000	93	290592	1.60	1.43	
112 2-Methylnaphthalene	142	22.263	22.263	0.000	100	114635	1.60	1.13	
113 1-Methylnaphthalene	142	22.387	22.387	0.000	99	129284	1.60	1.14	
A 115 C8 Range	1	14.790	(14.737-14.834)		0	1107867	1.60	1.66	
S 116 Xylenes, Total	100				0		4.80	5.02	
S 117 1,2-Dichloroethene, Total	1				0		3.20	3.27	
T 141 2-Methylthiophene TIC	97	14.280	14.285	-0.005	97	321435	1.60	1.60	
T 142 3-Methylthiophene TIC	97	14.479	14.479	0.001	98	316519	1.60	1.58	
T 144 2-Ethylthiophene TIC	97	16.501	16.501	0.000	61	378548	1.60	1.89	
T 149 1,2-Dimethyl-4-Ethylbenzene TIC	119	20.068	20.073	-0.005	98	448906	1.60	2.24	
T 150 1,2,3,5-Tetramethylbenzene TIC	119	20.514	20.514	0.000	95	326056	1.60	1.63	
T 151 1,2,3,4-Tetramethylbenzene TIC	119	20.929	20.923	0.006	97	432592	1.60	2.16	
T 152 Benzo(b)thiophene TIC	134	21.558	21.558	0.000	99	304836	1.60	1.52	

QC Flag Legend

Processing Flags

Reagents:

40CV101S_00147	Amount Added: 80.00	Units: mL	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

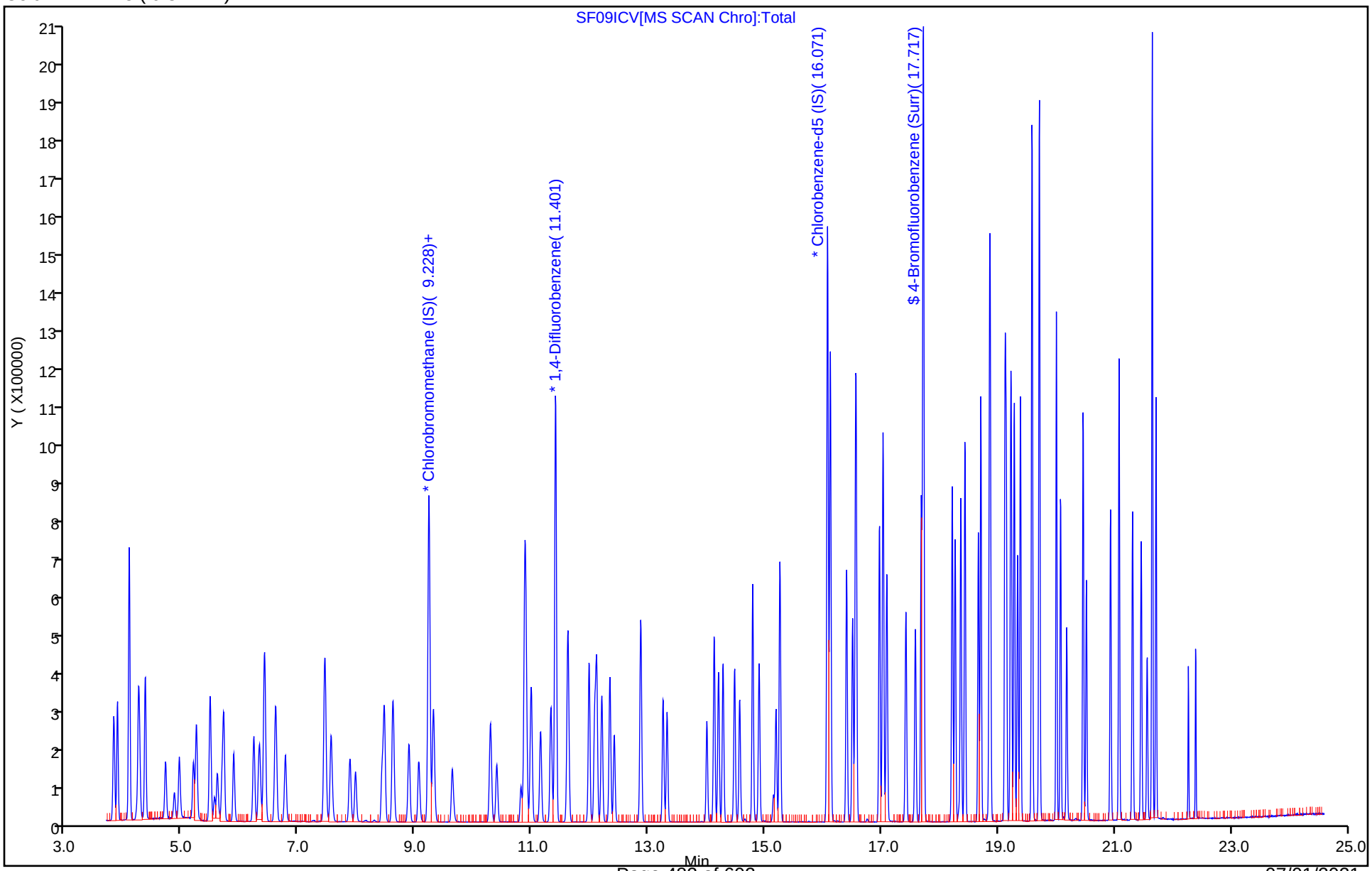
Report Date: 10-Jun-2021 10:20:14 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09ICV.D

Injection Date:	10-Jun-2021 01:28:30	Instrument ID:	MS	Operator ID:	HMT
Lims ID:	ICV			Worklist Smp#:	17
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab Sample ID: CCVIS 140-51283/2 Calibration Date: 06/29/2021 08:12

Instrument ID: MS Calib Start Date: 06/09/2021 14:14

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 06/09/2021 23:44

Lab File ID: SCCVF29.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	2.707	2.684		1.98	2.00	-0.9	30.0
Propene	Ave	1.152	1.067		1.85	2.00	-7.4	30.0
Dichlorodifluoromethane	Ave	3.798	3.662		1.93	2.00	-3.6	30.0
Chloromethane	Ave	0.5627	0.5754		2.05	2.00	2.3	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.530	3.532		2.00	2.00	0.0	30.0
Acetaldehyde	Ave	0.7903	0.5415		6.85	10.0	-31.5*	30.0
Vinyl chloride	Ave	1.793	1.994		2.22	2.00	11.2	30.0
1,3-Butadiene	Ave	1.253	1.404		2.24	2.00	12.1	30.0
Butane	Ave	2.051	2.051		2.00	2.00	-0.0	30.0
Bromomethane	Ave	1.500	1.742		2.32	2.00	16.1	30.0
Chloroethane	Ave	0.6048	0.7230		2.39	2.00	19.5	30.0
Ethanol	Ave	0.4300	0.2977		6.92	10.0	-30.8*	30.0
Vinyl bromide	Ave	1.524	1.411		1.85	2.00	-7.5	30.0
2-Methylbutane	Ave	1.682	1.588		1.89	2.00	-5.6	30.0
Trichlorofluoromethane	Ave	3.766	3.421		1.82	2.00	-9.2	30.0
Acrolein	Ave	0.5384	0.5448		2.02	2.00	1.2	30.0
Acetonitrile	Ave	0.6033	0.5082		1.68	2.00	-15.8	30.0
Acetone	Lin		0.8606			2.00	-13.3	30.0
Isopropyl alcohol	Ave	1.897	1.895		2.00	2.00	-0.1	30.0
Pentane	Ave	0.1570	0.1576		2.01	2.00	0.4	30.0
Ethyl ether	Ave	1.284	1.141		1.78	2.00	-11.1	30.0
1,1-Dichloroethene	Ave	1.372	1.293		1.88	2.00	-5.8	30.0
t-Butyl alcohol	Ave	2.571	2.246		1.75	2.00	-12.6	30.0
Acrylonitrile	Ave	1.213	1.197		1.97	2.00	-1.3	30.0
1,1,2-Trichlorotrifluoroethane	Ave	3.210	3.096		1.93	2.00	-3.5	30.0
Methylene Chloride	Ave	1.359	1.264		1.86	2.00	-6.9	30.0
3-Chloropropene	Ave	1.017	0.995		1.96	2.00	-2.1	30.0
Carbon disulfide	Ave	4.179	4.028		1.93	2.00	-3.6	30.0
trans-1,2-Dichloroethene	Ave	1.351	1.280		1.89	2.00	-5.3	30.0
2-Methylpentane	Ave	3.221	2.750		1.71	2.00	-14.6	30.0
Methyl tert-butyl ether	Ave	3.378	3.267		1.93	2.00	-3.3	30.0
1,1-Dichloroethane	Ave	2.948	2.944		2.00	2.00	-0.2	30.0
Vinyl acetate	Ave	3.084	3.062		1.99	2.00	-0.7	30.0
2-Butanone	Ave	0.6868	0.6147		1.79	2.00	-10.5	30.0
Hexane	Ave	1.179	1.195		2.03	2.00	1.3	30.0
Isopropyl ether	Ave	4.807	4.616		1.92	2.00	-4.0	30.0
cis-1,2-Dichloroethene	Ave	1.419	1.396		1.97	2.00	-1.7	30.0
Ethyl acetate	Ave	3.185	2.820		1.77	2.00	-11.5	30.0
Chloroform	Ave	3.102	2.982		1.92	2.00	-3.9	30.0
Tert-butyl ethyl ether	Ave	4.604	4.369		1.90	2.00	-5.1	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab Sample ID: CCVIS 140-51283/2 Calibration Date: 06/29/2021 08:12

Instrument ID: MS Calib Start Date: 06/09/2021 14:14

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 06/09/2021 23:44

Lab File ID: SCCVF29.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrahydrofuran	Ave	1.509	1.439		1.91	2.00	-4.6	30.0
1,1,1-Trichloroethane	Ave	2.826	2.648		1.87	2.00	-6.3	30.0
1,2-Dichloroethane	Ave	0.3990	0.3926		1.97	2.00	-1.6	30.0
1-Butanol	Ave	0.0866	0.0642		1.48	2.00	-25.9	30.0
Cyclohexane	Ave	0.1262	0.1251		1.98	2.00	-0.9	30.0
Benzene	Ave	0.9106	0.8861		1.95	2.00	-2.7	30.0
Carbon tetrachloride	Ave	0.5751	0.5848		2.03	2.00	1.7	30.0
2,3-Dimethylpentane	Ave	0.1710	0.1749		2.05	2.00	2.3	30.0
Thiophene	Ave	0.4997	0.4782		1.91	2.00	-4.3	30.0
2,2,4-Trimethylpentane	Ave	1.579	1.638		2.08	2.00	3.8	30.0
Heptane	Ave	0.2560	0.2655		2.07	2.00	3.7	30.0
1,2-Dichloropropane	Ave	0.4098	0.4286		2.09	2.00	4.6	30.0
Trichloroethene	Ave	0.4043	0.3752		1.86	2.00	-7.2	30.0
Dibromomethane	Ave	0.3918	0.3828		1.95	2.00	-2.3	30.0
Bromodichloromethane	Ave	0.5969	0.5935		1.99	2.00	-0.6	30.0
1,4-Dioxane	Ave	0.1247	0.1053		1.69	2.00	-15.6	30.0
Methyl methacrylate	Ave	0.3460	0.3123		1.81	2.00	-9.7	30.0
Methylcyclohexane	LinF		0.5964		2.18	2.00	9.0	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6635	0.6104		1.84	2.00	-8.0	30.0
cis-1,3-Dichloropropene	Ave	0.4727	0.4906		2.08	2.00	3.8	30.0
trans-1,3-Dichloropropene	Ave	0.4589	0.4724		2.06	2.00	2.9	30.0
Toluene	Ave	1.232	1.193		1.94	2.00	-3.2	30.0
1,1,2-Trichloroethane	Ave	0.4113	0.4067		1.98	2.00	-1.1	30.0
2-Hexanone	Ave	0.4084	0.4213		2.06	2.00	3.2	30.0
Octane	Ave	0.3039	0.3150		2.07	2.00	3.6	30.0
Dibromochloromethane	Ave	0.7414	0.7330		1.98	2.00	-1.1	30.0
1,2-Dibromoethane	Ave	0.7027	0.6886		1.96	2.00	-2.0	30.0
Tetrachloroethene	Ave	0.4961	0.4489		1.81	2.00	-9.5	30.0
2,3-Dimethylheptane	Ave	1.166	1.029		1.77	2.00	-11.7	30.0
Chlorobenzene	Ave	1.054	1.029		1.95	2.00	-2.4	30.0
Ethylbenzene	Ave	1.528	1.504		1.97	2.00	-1.6	30.0
m-Xylene & p-Xylene	Ave	1.228	1.218		3.97	4.00	-0.8	30.0
Nonane	Ave	0.8270	0.9020		2.18	2.00	9.1	30.0
Bromoform	Ave	0.7934	0.8619		2.17	2.00	8.6	30.0
Styrene	Ave	0.9091	0.9257		2.04	2.00	1.8	30.0
o-Xylene	Ave	1.257	1.239		1.97	2.00	-1.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.9793	1.021		2.08	2.00	4.2	30.0
1,2,3-Trichloropropane	Ave	0.2092	0.2067		1.98	2.00	-1.2	30.0
Isopropylbenzene	Ave	1.741	1.761		2.02	2.00	1.1	30.0
Propylbenzene	Ave	0.4671	0.4735		2.03	2.00	1.4	30.0
2-Chlorotoluene	Ave	0.4639	0.4613		1.99	2.00	-0.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Lab Sample ID: CCVIS 140-51283/2 Calibration Date: 06/29/2021 08:12

Instrument ID: MS Calib Start Date: 06/09/2021 14:14

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 06/09/2021 23:44

Lab File ID: SCCVF29.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Ethyltoluene	Ave	1.793	1.704		1.90	2.00	-5.0	30.0
1,3,5-Trimethylbenzene	Ave	0.7038	0.7938		2.26	2.00	12.8	30.0
Alpha Methyl Styrene	Ave	0.7222	0.6751		1.87	2.00	-6.5	30.0
Decane	Ave	1.138	1.252		2.20	2.00	10.0	30.0
tert-Butylbenzene	Ave	1.608	1.576		1.96	2.00	-2.0	30.0
1,2,4-Trimethylbenzene	Ave	1.597	1.564		1.96	2.00	-2.1	30.0
sec-Butylbenzene	Ave	2.326	2.299		1.98	2.00	-1.2	30.0
1,3-Dichlorobenzene	Ave	1.217	1.130		1.86	2.00	-7.2	30.0
Benzyl chloride	Ave	1.120	1.087		1.94	2.00	-2.9	30.0
1,4-Dichlorobenzene	Ave	1.201	1.104		1.84	2.00	-8.1	30.0
4-Isopropyltoluene	Ave	1.846	1.761		1.91	2.00	-4.6	30.0
1,2,3-Trimethylbenzene	Ave	1.598	1.161		1.45	2.00	-27.4	30.0
Butylcyclohexane	Ave	1.261	1.253		1.99	2.00	-0.6	30.0
1,2-Dichlorobenzene	Ave	1.222	1.154		1.89	2.00	-5.6	30.0
Indane	Ave	1.540	1.541		2.00	2.00	0.0	30.0
Butylbenzene	Ave	1.928	1.992		2.07	2.00	3.3	30.0
Indene	Ave	1.250	1.092		1.75	2.00	-12.7	30.0
Undecane	Ave	1.293	1.359		2.10	2.00	5.1	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.5167	0.4180		1.62	2.00	-19.1	30.0
1,2,4,5-Tetramethylbenzene	Ave	1.815	1.575		1.74	2.00	-13.2	30.0
Dodecane	Ave	1.358	1.318		1.94	2.00	-2.9	30.0
1,2,4-Trichlorobenzene	Ave	0.9550	0.8082		1.69	2.00	-15.4	30.0
Naphthalene	Lin1F		1.659		1.46	2.00	-26.8	30.0
Hexachlorobutadiene	Ave	1.453	1.263		1.74	2.00	-13.0	30.0
1,2,3-Trichlorobenzene	Ave	1.015	0.8900		1.75	2.00	-12.3	30.0
2-Methylnaphthalene	Ave	0.5075	0.4735		1.87	2.00	-6.7	50.0
1-Methylnaphthalene	Ave	0.5642	0.5689		2.02	2.00	0.8	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7409	0.7610		4.77	4.64	2.7	30.0

Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MS\20210628-19746.b\SCCVF29.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 29-Jun-2021 08:12:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019746-002
Misc. Info.: S145 100ML
Operator ID: HMT Instrument ID: MS
Sublist: chrom-MS_TO15A*sub2

Method: \\chromfs\Knoxville\ChromData\MS\20210628-19746.b\MS_TO15A.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jun-2021 11:22:40 Calib Date: 09-Jun-2021 23:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1612

First Level Reviewer: khachitpongpanits Date: 30-Jun-2021 11:22:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.217	9.217	0.000	97	195219	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.396	11.396	0.000	94	979316	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	16.065	16.065	0.000	87	843518	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.712	17.712	0.000	96	620489	4.64	4.77	
6 Chlorodifluoromethane	51	3.811	3.811	0.000	96	218288	2.00	1.98	
7 Propene	41	3.821	3.821	0.000	97	86786	2.00	1.85	
8 Dichlorodifluoromethane	85	3.881	3.881	0.000	99	297883	2.00	1.93	
9 Chloromethane	52	4.074	4.074	0.000	98	46805	2.00	2.05	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.080	4.080	0.000	89	287276	2.00	2.00	
11 Acetaldehyde	44	4.241	4.241	0.000	81	220230	10.0	6.85	
12 Vinyl chloride	62	4.263	4.263	0.000	98	162184	2.00	2.22	
14 Butane	43	4.354	4.354	0.000	85	166842	2.00	2.00	
13 Butadiene	54	4.354	4.354	0.000	73	114239	2.00	2.24	
15 Bromomethane	94	4.704	4.704	0.000	99	141690	2.00	2.32	
16 Chloroethane	64	4.854	4.854	0.000	91	58808	2.00	2.39	
17 Ethanol	31	4.940	4.940	0.000	85	121066	10.0	6.92	
18 Vinyl bromide	106	5.177	5.177	0.000	98	114733	2.00	1.85	
19 2-Methylbutane	43	5.231	5.231	0.000	89	129171	2.00	1.89	
20 Trichlorofluoromethane	101	5.468	5.468	0.000	99	278255	2.00	1.82	
21 Acrolein	56	5.473	5.473	0.000	34	44313	2.00	2.02	
22 Acetonitrile	40	5.543	5.543	0.000	99	41340	2.00	1.68	
23 Acetone	58	5.591	5.591	0.000	95	70002	2.00	1.73	
24 Isopropyl alcohol	45	5.672	5.672	0.000	94	154140	2.00	2.00	
25 Pentane	72	5.699	5.699	0.000	95	12817	2.00	2.01	
26 Ethyl ether	31	5.876	5.876	0.000	89	92818	2.00	1.78	
27 1,1-Dichloroethene	96	6.221	6.221	0.000	94	105140	2.00	1.88	
29 2-Methyl-2-propanol	59	6.301	6.301	0.000	93	182730	2.00	1.75	
28 Acrylonitrile	53	6.323	6.323	0.000	97	97378	2.00	1.97	
30 112TCTFE	101	6.398	6.398	0.000	98	251806	2.00	1.93	
31 Methylene Chloride	84	6.581	6.581	0.000	98	102849	2.00	1.86	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.603	6.603	0.000	94	80959	2.00	1.96	
33 Carbon disulfide	76	6.759	6.759	0.000	98	327666	2.00	1.93	
34 trans-1,2-Dichloroethene	96	7.426	7.426	0.000	95	104129	2.00	1.89	
35 2-Methylpentane	43	7.442	7.442	0.000	96	223708	2.00	1.71	
36 Methyl tert-butyl ether	73	7.544	7.544	0.000	97	265772	2.00	1.93	
37 1,1-Dichloroethane	63	7.867	7.867	0.000	99	239433	2.00	2.00	
38 Vinyl acetate	43	7.964	7.964	0.000	100	249048	2.00	1.99	
39 2-Butanone (MEK)	72	8.416	8.416	0.000	97	50004	2.00	1.79	
40 Hexane	56	8.459	8.459	0.000	86	97171	2.00	2.03	
41 Isopropyl ether	45	8.604	8.604	0.000	98	375510	2.00	1.92	
42 cis-1,2-Dichloroethene	96	8.884	8.884	0.000	98	113533	2.00	1.97	
43 Ethyl acetate	43	9.045	9.045	0.000	98	229378	2.00	1.77	
44 Chloroform	83	9.228	9.228	0.000	94	242592	2.00	1.92	
45 Tert-butyl ethyl ether	59	9.303	9.303	0.000	93	355354	2.00	1.90	
46 Tetrahydrofuran	42	9.626	9.626	0.000	95	117010	2.00	1.91	
47 1,1,1-Trichloroethane	97	10.277	10.277	0.000	96	215410	2.00	1.87	
48 1,2-Dichloroethane	62	10.390	10.390	0.000	96	160202	2.00	1.97	
49 n-Butanol	31	10.799	10.799	0.000	80	26191	2.00	1.48	
50 Cyclohexane	69	10.869	10.869	0.000	72	51061	2.00	1.98	
51 Benzene	78	10.874	10.874	0.000	97	361582	2.00	1.95	
52 Carbon tetrachloride	117	10.890	10.890	0.000	97	238612	2.00	2.03	
53 2,3-Dimethylpentane	71	10.976	10.976	0.000	91	71367	2.00	2.05	
54 Thiophene	84	11.143	11.143	0.000	97	195125	2.00	1.91	
55 Isooctane	57	11.606	11.606	0.000	98	668580	2.00	2.08	
56 n-Heptane	71	11.972	11.972	0.000	88	108324	2.00	2.07	
57 1,2-Dichloropropane	63	12.068	12.068	0.000	97	174885	2.00	2.09	
58 Trichloroethene	130	12.106	12.106	0.000	95	153095	2.00	1.86	
59 Dibromomethane	93	12.192	12.192	0.000	96	156209	2.00	1.95	
60 Dichlorobromomethane	83	12.327	12.327	0.000	99	242166	2.00	1.99	
61 1,4-Dioxane	88	12.332	12.332	0.000	37	42965	2.00	1.69	
62 Methyl methacrylate	41	12.407	12.407	0.000	97	127451	2.00	1.81	
63 Methylcyclohexane	83	12.859	12.859	0.000	95	243360	2.00	2.18	
64 4-Methyl-2-pentanone (MIBK)	43	13.241	13.241	0.000	95	249091	2.00	1.84	
65 cis-1,3-Dichloropropene	75	13.311	13.311	0.000	91	200183	2.00	2.08	
66 trans-1,3-Dichloropropene	75	13.994	13.994	0.000	96	166050	2.00	2.06	
67 Toluene	91	14.123	14.123	0.000	92	419354	2.00	1.94	
68 1,1,2-Trichloroethane	83	14.193	14.193	0.000	96	142954	2.00	1.98	
69 2-Hexanone	58	14.559	14.559	0.000	95	148061	2.00	2.06	
70 n-Octane	85	14.785	14.785	0.000	91	110699	2.00	2.07	
71 Chlorodibromomethane	129	14.893	14.893	0.000	97	257636	2.00	1.98	
72 Ethylene Dibromide	107	15.183	15.183	0.000	98	242002	2.00	1.96	
73 Tetrachloroethene	129	15.248	15.248	0.000	96	157778	2.00	1.81	
74 2,3-Dimethylheptane	43	16.114	16.114	0.000	95	361718	2.00	1.77	
75 Chlorobenzene	112	16.114	16.114	0.000	92	361809	2.00	1.95	
76 Ethylbenzene	91	16.394	16.394	0.000	98	528569	2.00	1.97	
77 m-Xylene & p-Xylene	91	16.555	16.555	0.000	97	856477	4.00	3.97	
78 n-Nonane	57	16.958	16.958	0.000	90	317010	2.00	2.18	
79 Bromoform	173	17.018	17.018	0.000	97	302937	2.00	2.17	
80 Styrene	104	17.023	17.023	0.000	98	325335	2.00	2.04	
81 o-Xylene	91	17.082	17.082	0.000	99	435337	2.00	1.97	
82 1,1,2,2-Tetrachloroethane	83	17.410	17.410	0.000	98	358746	2.00	2.08	
83 1,2,3-Trichloropropane	110	17.572	17.572	0.000	97	72658	2.00	1.98	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Isopropylbenzene	105	17.674	17.674	0.000	95	618800	2.00	2.02	
85 N-Propylbenzene	120	18.206	18.206	0.000	99	166404	2.00	2.03	
86 2-Chlorotoluene	126	18.255	18.255	0.000	97	162139	2.00	1.99	
87 4-Ethyltoluene	105	18.357	18.357	0.000	99	598791	2.00	1.90	
88 1,3,5-Trimethylbenzene	120	18.427	18.427	0.000	92	278983	2.00	2.26	
89 Alpha Methyl Styrene	118	18.653	18.653	0.000	89	237290	2.00	1.87	
90 n-Decane	57	18.696	18.696	0.000	86	439995	2.00	2.20	
91 tert-Butylbenzene	119	18.847	18.847	0.000	92	553889	2.00	1.96	
92 1,2,4-Trimethylbenzene	105	18.863	18.863	0.000	96	549618	2.00	1.96	
93 sec-Butylbenzene	105	19.116	19.116	0.000	99	807959	2.00	1.98	
94 1,3-Dichlorobenzene	146	19.137	19.137	0.000	97	397106	2.00	1.86	
95 Benzyl chloride	91	19.207	19.207	0.000	98	382206	2.00	1.94	
96 1,4-Dichlorobenzene	146	19.218	19.218	0.000	96	387893	2.00	1.84	
97 4-Isopropyltoluene	119	19.272	19.272	0.000	97	618880	2.00	1.91	
98 1,2,3-Trimethylbenzene	105	19.331	19.331	0.000	98	407916	2.00	1.45	
99 Butylcyclohexane	83	19.379	19.379	0.000	94	440497	2.00	1.99	
100 2,3-Dihydroindene	117	19.578	19.578	0.000	93	541698	2.00	2.00	
101 1,2-Dichlorobenzene	146	19.578	19.578	0.000	98	405452	2.00	1.89	
102 n-Butylbenzene	91	19.702	19.702	0.000	96	700218	2.00	2.07	
103 Indene	116	19.707	19.707	0.000	88	383735	2.00	1.75	
104 Undecane	57	19.998	19.998	0.000	92	477809	2.00	2.10	
105 1,2-Dibromo-3-Chloropropane	157	20.175	20.175	0.000	96	146906	2.00	1.62	
106 1,2,4,5-Tetramethylbenzene	119	20.455	20.455	0.000	97	553681	2.00	1.74	
107 Dodecane	57	21.068	21.068	0.000	95	463239	2.00	1.94	
108 1,2,4-Trichlorobenzene	180	21.305	21.305	0.000	93	284062	2.00	1.69	
109 Naphthalene	128	21.450	21.450	0.000	99	583099	2.00	1.46	
110 Hexachlorobutadiene	225	21.644	21.644	0.000	92	443924	2.00	1.74	
111 1,2,3-Trichlorobenzene	180	21.709	21.709	0.000	93	312794	2.00	1.75	
112 2-Methylnaphthalene	142	22.263	22.263	0.000	99	166418	2.00	1.87	
113 1-Methylnaphthalene	142	22.386	22.386	0.000	99	199971	2.00	2.02	
A 115 C8 Range	1	14.790	(14.737-14.833)		0	1149424	2.00	1.96	
S 116 Xylenes, Total	100				0		6.00	5.94	
S 117 1,2-Dichloroethene, Total	1				0		4.00	3.86	
T 141 2-Methylthiophene TIC	97	14.274	14.274	0.000	96	328759	2.00	1.87	
T 142 3-Methylthiophene TIC	97	14.473	14.473	0.000	94	323075	2.00	1.84	
T 144 2-Ethylthiophene TIC	97	16.496	16.496	0.000	59	390262	2.00	2.22	
T 149 1,2-Dimethyl-4-Ethylbenzene TIC	119	20.068	20.068	0.000	98	461286	2.00	2.62	
T 150 1,2,3,5-Tetramethylbenzene TIC	119	20.509	20.509	0.000	95	338493	2.00	1.93	
T 151 1,2,3,4-Tetramethylbenzene TIC	119	20.923	20.923	0.000	96	440580	2.00	2.51	
T 152 Benzo(b)thiophene TIC	134	21.553	21.553	0.000	98	317322	2.00	1.81	

QC Flag Legend

Processing Flags

Reagents:

40CV101S_00145	Amount Added: 100.00	Units: ml	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

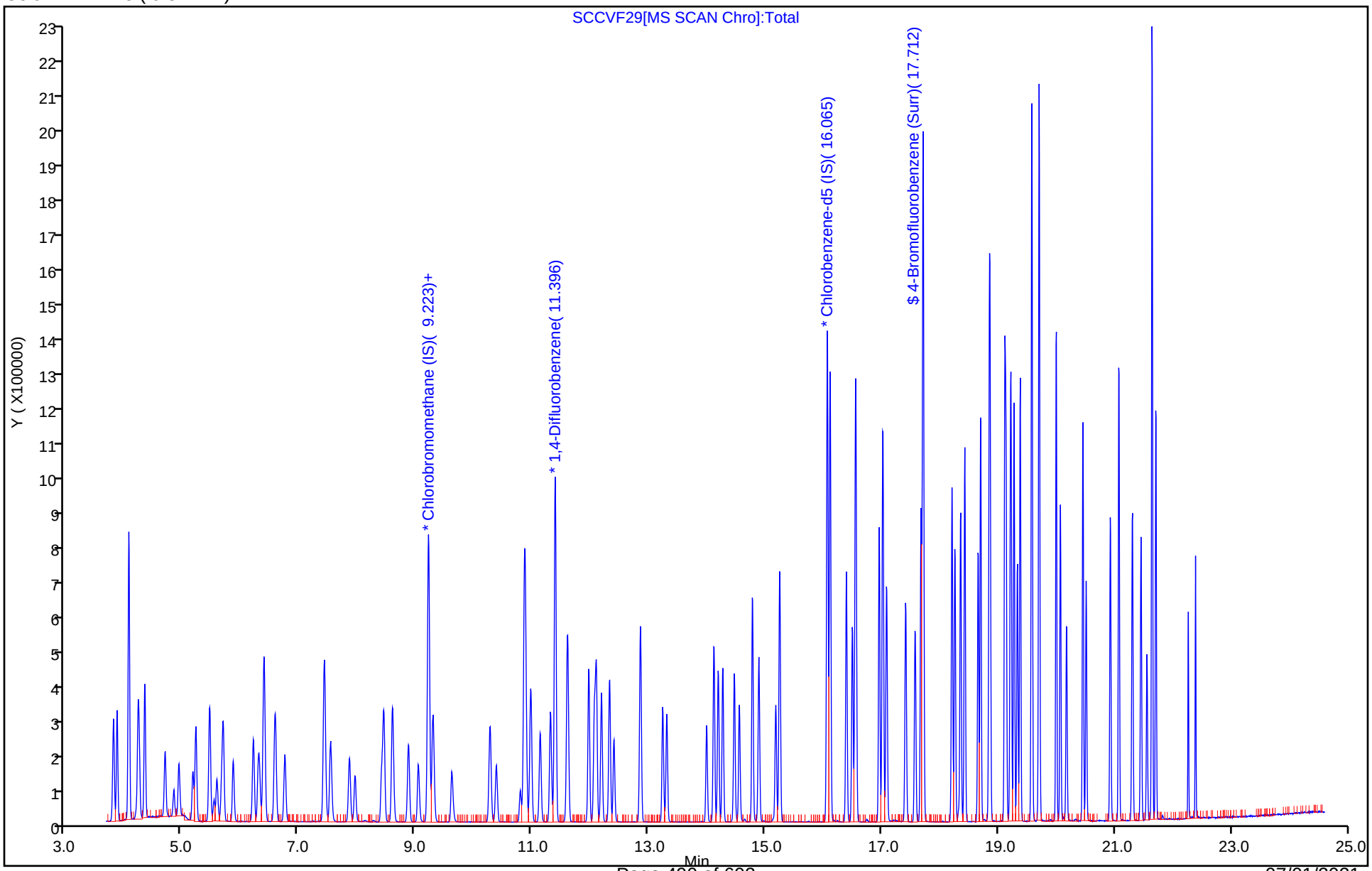
Report Date: 30-Jun-2021 11:22:40 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MS\20210628-19746.b\SCCVF29.D

Injection Date:	29-Jun-2021 08:12:30	Instrument ID:	MS	Operator ID:	HMT
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File:	\\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RBFBF19.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	19-Jun-2021 07:45:30	ALS Bottle#:	21	Worklist Smp#:	1
Injection Vol:	500.0 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	BFB				
Operator ID:	HMT	Instrument ID:	MR		
Method:	\\chromfs\Knoxville\ChromData\MR\20210619-19646.b\MR_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	21-Jun-2021 12:56:34	Calib Date:	19-Jun-2021 18:49:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	CTX1626				

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
$ 5 BFB	95	6.241	6.241	0.000	0	983780	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

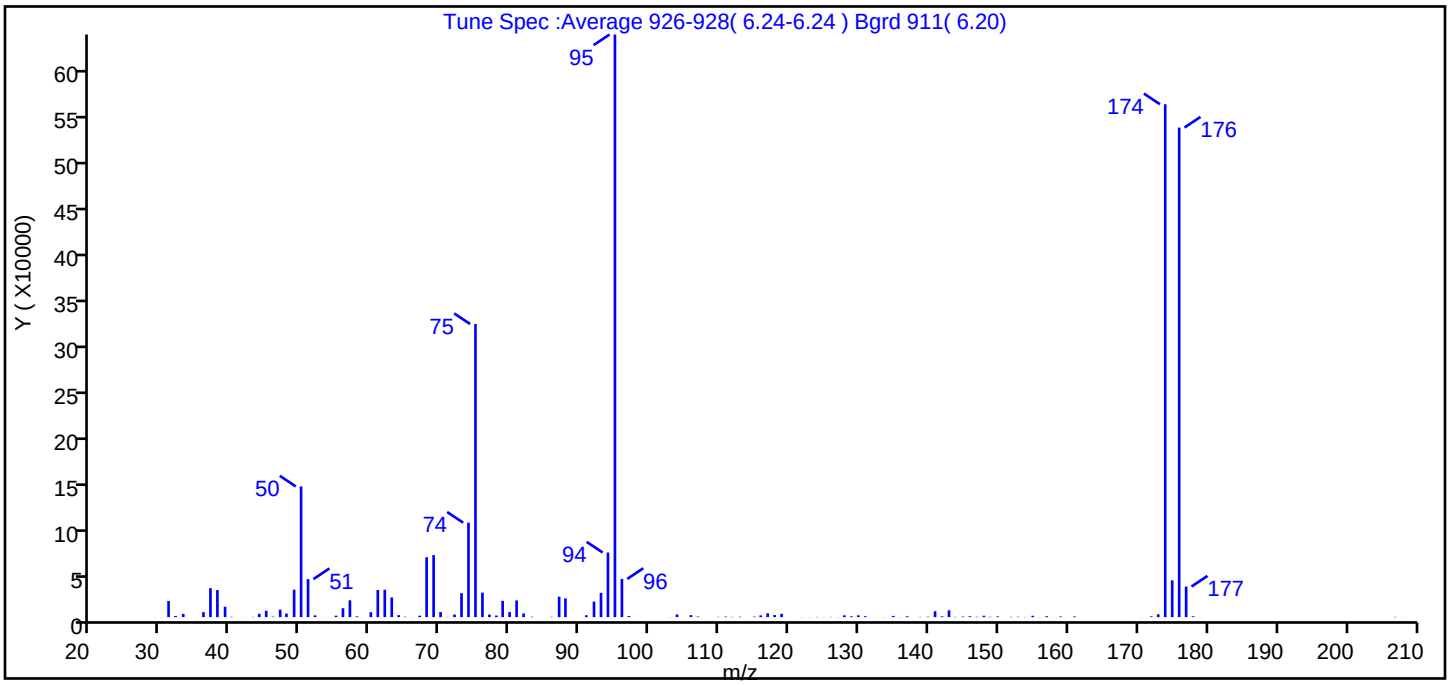
40MXBFB_00001 Amount Added: 40.00 Units: mL

MS Tune Report

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RBFBF19.D
Injection Date: 19-Jun-2021 07:45:30 Instrument ID: MR
Lims ID: BFB
Client ID:
Operator ID: HMT ALS Bottle#: 21 Worklist Smp#: 1
Injection Vol: 500.0 mL Dil. Factor: 1.0000
Method: MR_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.4
75	30 to 60% of m/z 95	50.3
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	88.0
175	5 to 9% of m/z 174	6.3 (7.2)
176	Greater than 95% but less than 101% of m/z 174	84.0 (95.4)
177	5 to 9% of m/z 176	5.2 (6.2)

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RBFBF19.D\MR_TO15.rslt\spectra.d
Injection Date: 19-Jun-2021 07:45:30
Spectrum: Tune Spec :Average 926-928(6.24-6.24) Bgrd 911(6.20)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 126

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	78	63.00	21568	104.00	2967	143.00	7478
30.00	93	64.00	2162	106.00	2205	144.00	325
31.00	17736	65.00	460	107.00	627	145.00	587
32.00	1312	66.00	88	110.00	309	146.00	980
33.00	3610	67.00	1594	111.00	603	147.00	427
36.00	5420	68.00	65664	112.00	315	148.00	1579
37.00	31768	69.00	68064	113.00	437	149.00	392
38.00	29664	70.00	5537	115.00	578	150.00	841
39.00	11441	71.00	235	116.00	1948	151.00	33
40.00	386	72.00	2901	117.00	4247	152.00	339
41.00	4	73.00	26240	118.00	2337	153.00	452
42.00	42	74.00	103576	119.00	3661	154.00	246
43.00	241	75.00	321408	122.00	115	155.00	1505
44.00	3666	76.00	26864	123.00	166	156.00	182
45.00	7007	77.00	2802	124.00	272	157.00	997
46.00	527	78.00	1732	125.00	172	158.00	35
47.00	8183	79.00	17896	126.00	274	159.00	745
48.00	3919	80.00	5492	127.00	147	161.00	830
49.00	30136	81.00	18320	128.00	1989	170.00	98
50.00	143296	82.00	4044	129.00	934	171.00	46
51.00	41704	83.00	445	130.00	2020	172.00	848
52.00	1943	86.00	396	131.00	1058	173.00	3147
53.00	89	87.00	22408	132.00	63	174.00	562432
54.00	35	88.00	20568	134.00	121	175.00	40344
55.00	1632	91.00	2077	134.00	93	176.00	536832
56.00	9805	92.00	17064	135.00	1390	177.00	33528
57.00	18488	93.00	26624	136.00	169	178.00	947
58.00	901	94.00	70872	137.00	941	190.00	55
59.00	37	95.00	638912	139.00	300	207.00	313
60.00	5437	96.00	41912	140.00	478	208.00	78
61.00	29744	97.00	1186	141.00	6533		
62.00	30000	103.00	157	142.00	901		

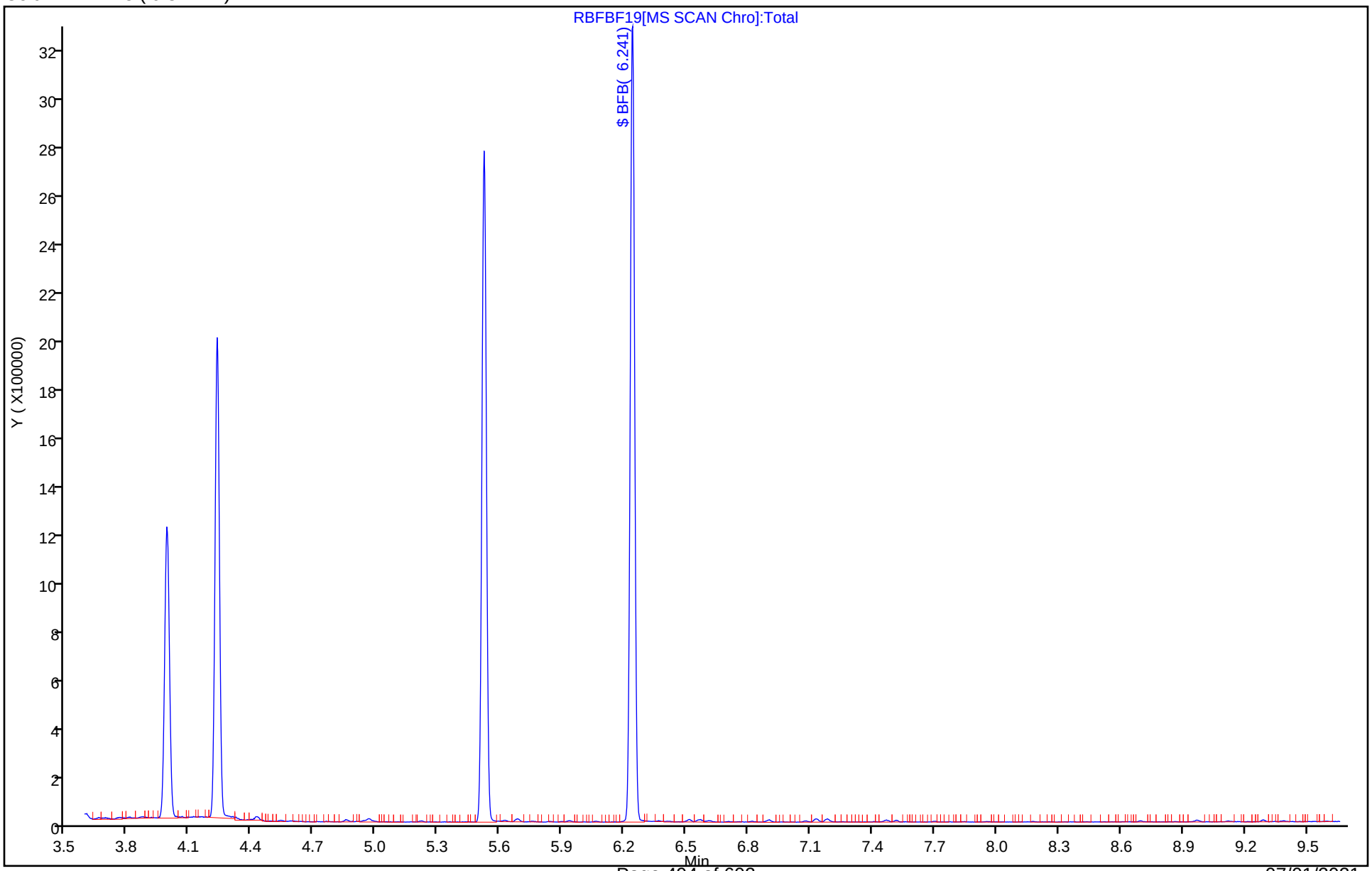
Report Date: 21-Jun-2021 12:56:34 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RBFBF19.D

Injection Date:	19-Jun-2021 07:45:30	Instrument ID:	MR	Operator ID:	HMT
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	500.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File:	\\chromfs\Knoxville\ChromData\MR\20210627-19739.b\RBFBF28.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	28-Jun-2021 07:35:30	ALS Bottle#:	16	Worklist Smp#:	1
Injection Vol:	500.0 mL	Dil. Factor:	1.0000		
Sample Info:	140-0019739-001				
Misc. Info.:	BFB				
Operator ID:	HMT	Instrument ID:	MR		
Method:	\\chromfs\Knoxville\ChromData\MR\20210627-19739.b\MR_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	29-Jun-2021 10:19:17	Calib Date:	19-Jun-2021 18:49:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	CTX1663				
First Level Reviewer: khachitpongpanits		Date:	29-Jun-2021 10:19:17		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
$ 5 BFB	95	6.238	6.238	0.000	0	693579	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

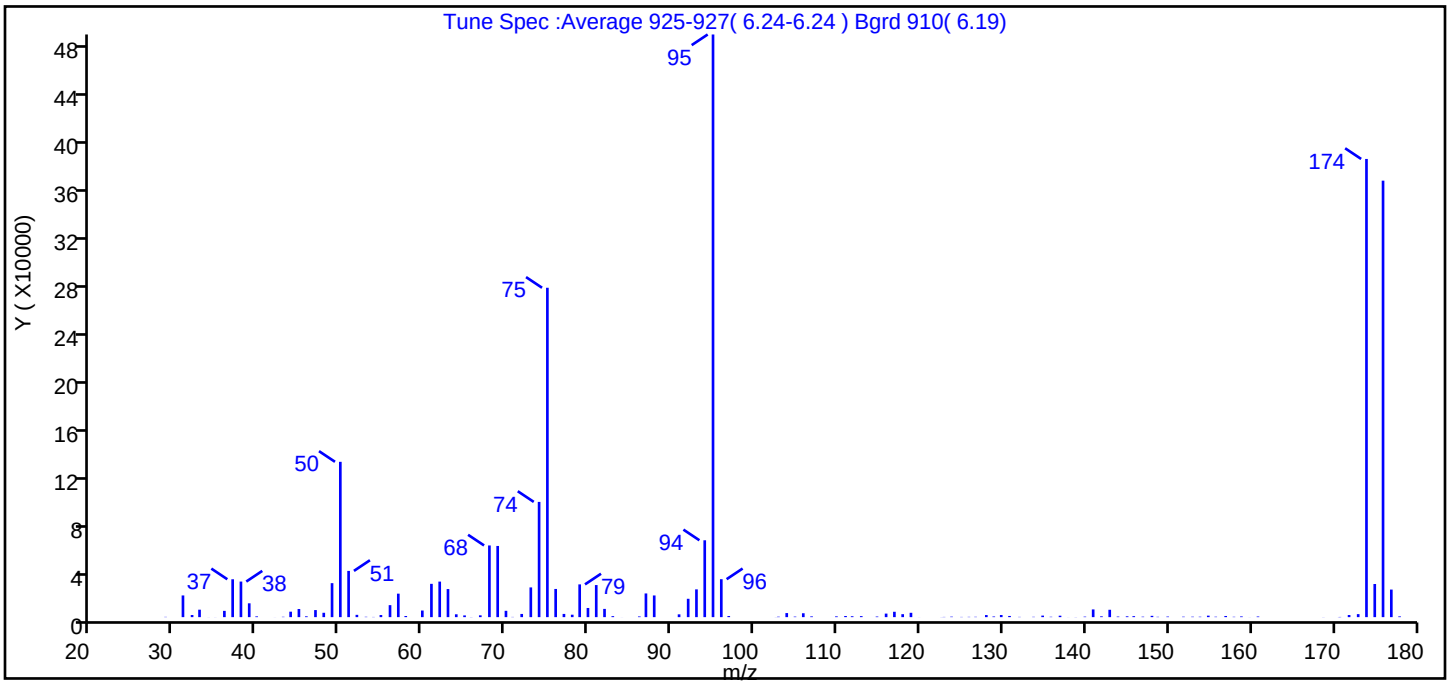
40MXBFB_00001 Amount Added: 40.00 Units: mL

MS Tune Report

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MR\20210627-19739.b\RBFBF28.D
Injection Date: 28-Jun-2021 07:35:30 Instrument ID: MR
Lims ID: BFB
Client ID:
Operator ID: HMT ALS Bottle#: 16 Worklist Smp#: 1
Injection Vol: 500.0 mL Dil. Factor: 1.0000
Method: MR_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	26.7
75	30 to 60% of m/z 95	56.5
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.5 (0.7)
174	50 to 120% of m/z 95	78.6
175	5 to 9% of m/z 174	5.7 (7.2)
176	Greater than 95% but less than 101% of m/z 174	74.9 (95.3)
177	5 to 9% of m/z 176	4.7 (6.3)

Data File: \\chromfs\Knoxville\ChromData\MR\20210627-19739.b\RBFBF28.D\MR_TO15.rslt\spectra.d
Injection Date: 28-Jun-2021 07:35:30
Spectrum: Tune Spec :Average 925-927(6.24-6.24) Bgrd 910(6.19)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 127

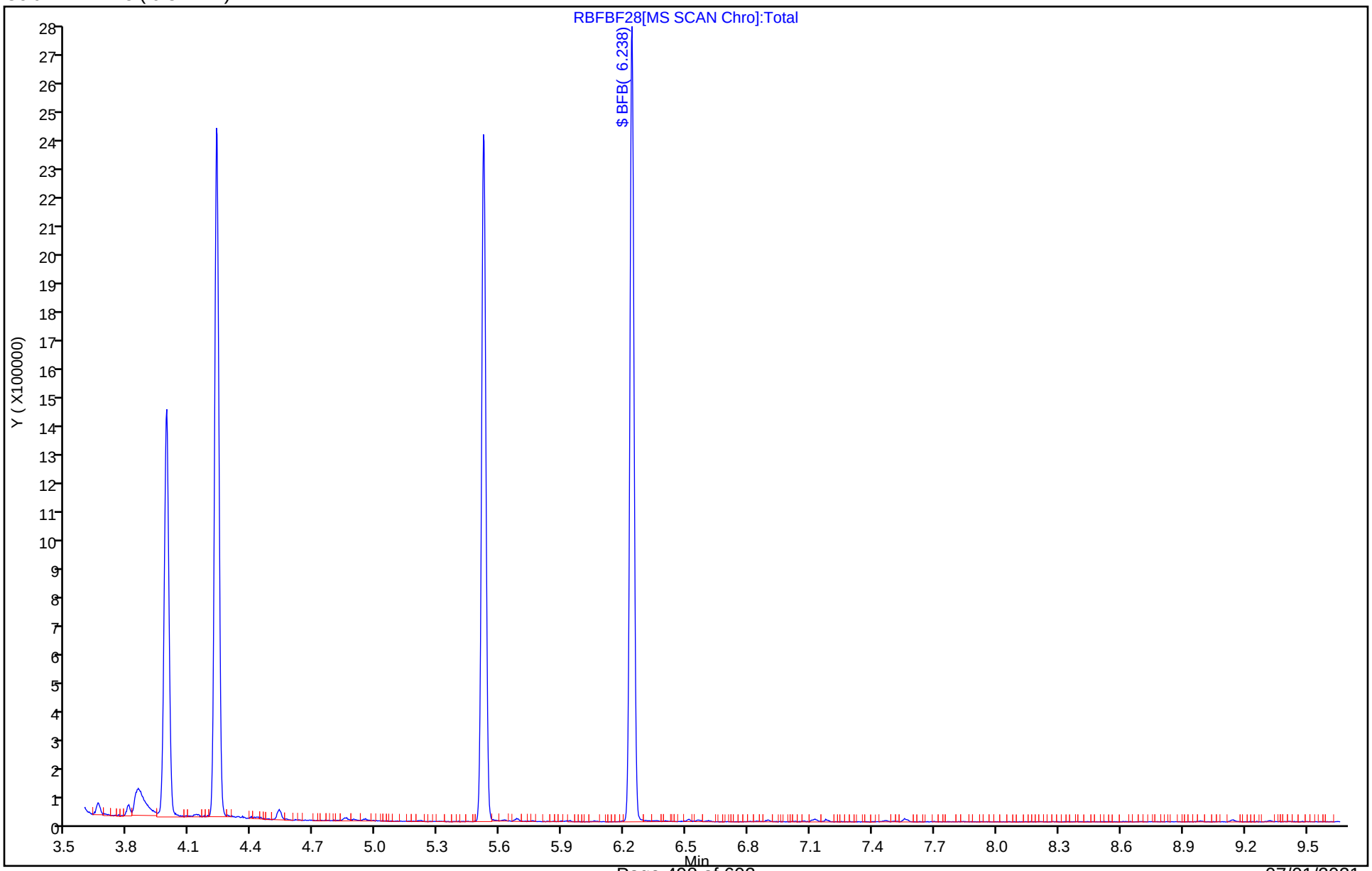
m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	228	64.00	2397	103.00	374	140.00	433
31.00	18232	65.00	1452	104.00	3421	141.00	6487
32.00	1777	66.00	105	105.00	445	142.00	682
33.00	6260	67.00	1516	106.00	3270	143.00	6195
34.00	46	68.00	60232	107.00	624	144.00	496
35.00	50	69.00	59808	110.00	662	145.00	697
36.00	5277	70.00	5318	111.00	962	146.00	828
37.00	31824	71.00	186	112.00	754	147.00	391
38.00	29896	72.00	2687	113.00	849	148.00	1101
39.00	11619	73.00	24976	115.00	517	149.00	276
40.00	646	74.00	96824	116.00	2979	150.00	483
42.00	36	75.00	276736	117.00	4513	152.00	384
43.00	300	76.00	23680	118.00	2496	153.00	376
44.00	4588	77.00	2708	119.00	3647	154.00	356
45.00	6822	78.00	2052	120.00	34	155.00	1250
46.00	702	79.00	27520	123.00	69	156.00	362
47.00	5937	80.00	7700	123.00	185	157.00	970
48.00	3668	81.00	26952	124.00	411	158.00	306
49.00	28552	82.00	6927	125.00	188	159.00	604
50.00	130504	83.00	832	126.00	247	160.00	44
51.00	38856	84.00	35	127.00	287	161.00	535
52.00	1936	86.00	587	128.00	1737	169.00	74
53.00	306	87.00	19912	129.00	552	171.00	93
54.00	169	88.00	18216	130.00	1774	171.00	174
55.00	1770	91.00	2355	131.00	996	172.00	1776
56.00	10073	92.00	15426	132.00	219	173.00	2527
57.00	19736	93.00	23344	134.00	277	174.00	384960
58.00	952	94.00	64576	135.00	1294	175.00	27840
60.00	5563	95.00	489536	136.00	318	176.00	366720
61.00	27984	96.00	31888	137.00	1210	177.00	23168
62.00	29864	97.00	921	138.00	38	178.00	616
63.00	23600	103.00	68	139.00	91		

Report Date: 29-Jun-2021 10:19:17 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MR\20210627-19739.b\RBFBF28.D				
Injection Date:	28-Jun-2021 07:35:30	Instrument ID:	MR	Operator ID:	HMT
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	500.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File:	\\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RBFBF30.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	30-Jun-2021 08:23:30	ALS Bottle#:	16	Worklist Smp#:	1
Injection Vol:	500.0 mL	Dil. Factor:	1.0000		
Sample Info:	140-0019757-001				
Misc. Info.:	BFB				
Operator ID:	HMT	Instrument ID:	MR		
Method:	\\chromfs\Knoxville\ChromData\MR\20210629-19757.b\MR_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	01-Jul-2021 13:57:14	Calib Date:	19-Jun-2021 18:49:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	CTX1621				
First Level Reviewer: khachitpongpanits		Date:	01-Jul-2021 13:57:14		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
$ 5 BFB	95	6.238	6.238	0.000	0	781983	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

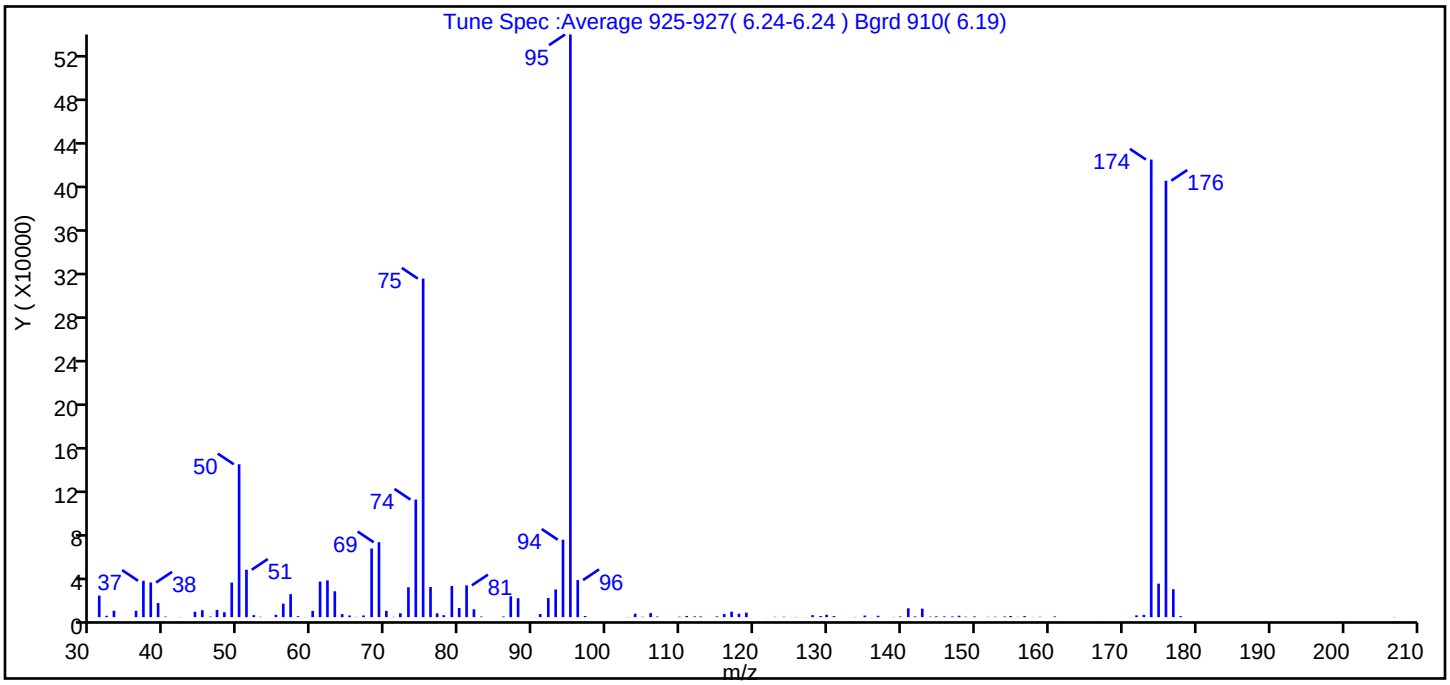
40MXBFB_00001 Amount Added: 40.00 Units: mL

MS Tune Report

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RBFBF30.D
Injection Date: 30-Jun-2021 08:23:30 Instrument ID: MR
Lims ID: BFB
Client ID:
Operator ID: HMT ALS Bottle#: 16 Worklist Smp#: 1
Injection Vol: 500.0 mL Dil. Factor: 1.0000
Method: MR_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	26.2
75	30 to 60% of m/z 95	58.1
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.4 (0.5)
174	50 to 120% of m/z 95	78.5
175	5 to 9% of m/z 174	5.7 (7.3)
176	Greater than 95% but less than 101% of m/z 174	74.9 (95.4)
177	5 to 9% of m/z 176	4.8 (6.4)

Data File: \\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RBFBF30.D\MR_TO15.rslt\spectra.d
Injection Date: 30-Jun-2021 08:23:30
Spectrum: Tune Spec :Average 925-927(6.24-6.24) Bgrd 910(6.19)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 127

m/z	Y	m/z	Y	m/z	Y	m/z	Y
30.00	96	64.00	2787	103.00	101	140.00	604
31.00	19656	65.00	1494	103.00	194	141.00	8047
32.00	1258	66.00	225	104.00	3165	142.00	673
33.00	5864	67.00	1524	105.00	343	143.00	7743
34.00	52	68.00	62536	106.00	3632	144.00	456
36.00	5776	69.00	68296	107.00	572	145.00	748
37.00	33144	70.00	5713	110.00	453	146.00	675
38.00	31560	71.00	264	111.00	1091	147.00	610
39.00	12811	72.00	3524	112.00	696	148.00	1299
40.00	526	73.00	27216	113.00	652	149.00	423
42.00	168	74.00	107136	115.00	693	150.00	689
43.00	12	75.00	308544	116.00	2815	151.00	35
44.00	4940	76.00	27512	117.00	5038	152.00	259
45.00	6355	77.00	3438	118.00	3128	153.00	394
46.00	543	78.00	1775	119.00	4135	154.00	576
47.00	6611	79.00	28496	122.00	33	155.00	1051
48.00	4448	80.00	8292	122.00	53	156.00	250
49.00	31448	81.00	28976	123.00	296	157.00	982
50.00	139328	82.00	7157	124.00	361	158.00	191
51.00	43224	83.00	567	125.00	111	159.00	351
52.00	1829	86.00	608	126.00	187	161.00	696
53.00	330	87.00	18984	127.00	118	167.00	35
54.00	60	88.00	17248	128.00	1822	171.00	79
55.00	2123	90.00	54	129.00	1004	172.00	1638
56.00	12323	90.00	71	130.00	2127	173.00	2080
57.00	20952	91.00	2829	131.00	976	174.00	417024
58.00	816	92.00	17392	133.00	80	175.00	30528
59.00	147	93.00	25240	134.00	227	176.00	397760
60.00	5681	94.00	70592	135.00	1445	177.00	25424
61.00	32384	95.00	531008	136.00	73	178.00	906
62.00	33504	96.00	33816	137.00	1255	207.00	203
63.00	23584	97.00	1063	139.00	210		

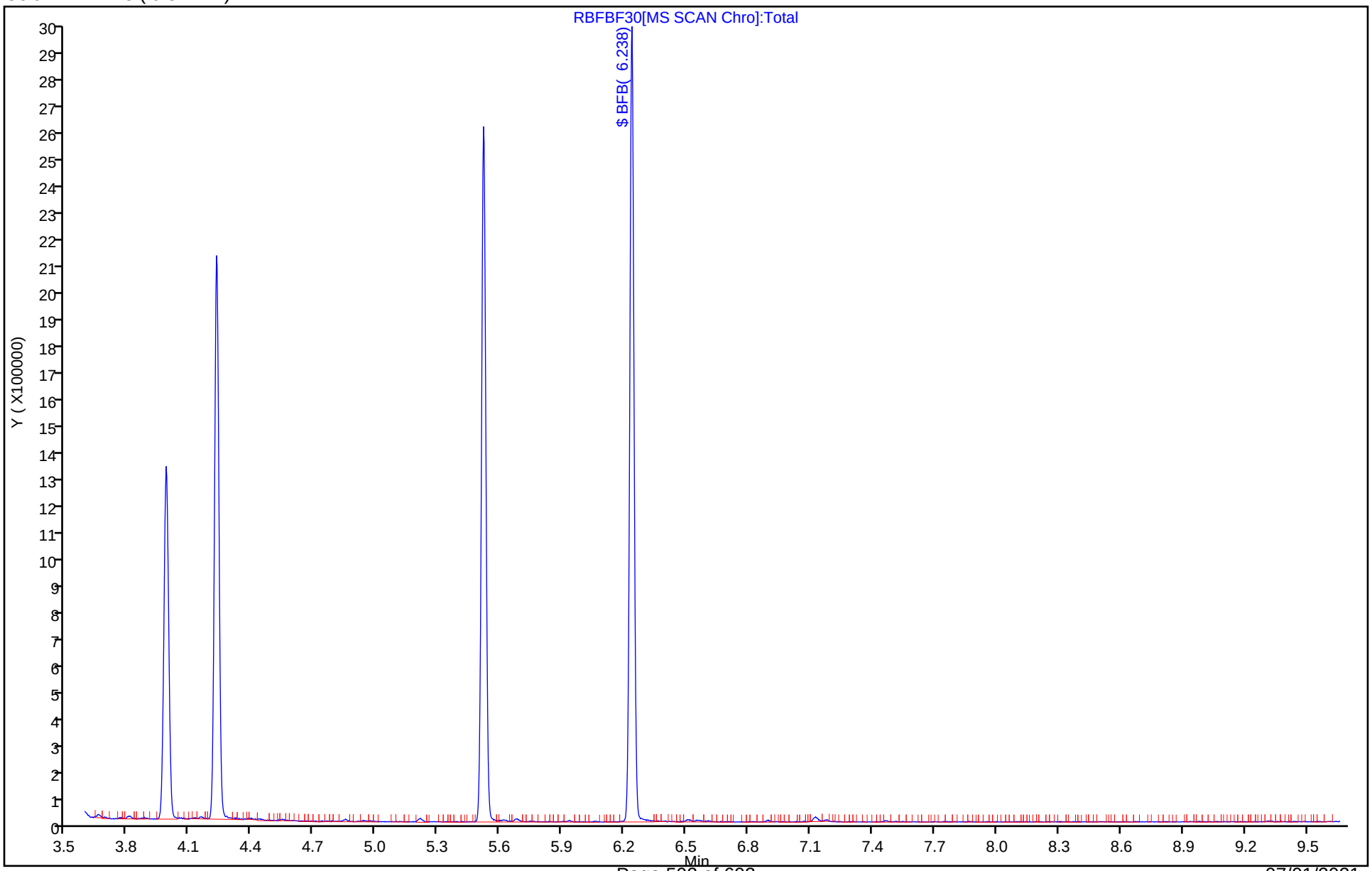
Report Date: 01-Jul-2021 13:57:14 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RBFBF30.D

Injection Date:	30-Jun-2021 08:23:30	Instrument ID:	MR	Operator ID:	HMT
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	500.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File:	\\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SBFBF09B.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	09-Jun-2021 11:10:30	ALS Bottle#:	16	Worklist Smp#:	1
Injection Vol:	500.0 mL	Dil. Factor:	1.0000		
Sample Info:	140-0019493-001				
Misc. Info.:	BFB				
Operator ID:	HMT	Instrument ID:	MS		
Method:	\\chromfs\Knoxville\ChromData\MS\20210609-19525.b\MS_TO15A.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	10-Jun-2021 10:20:12	Calib Date:	09-Jun-2021 23:44:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	CTX1623				

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
$ 5 BFB	95	4.810	4.810	0.000	0	767024	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

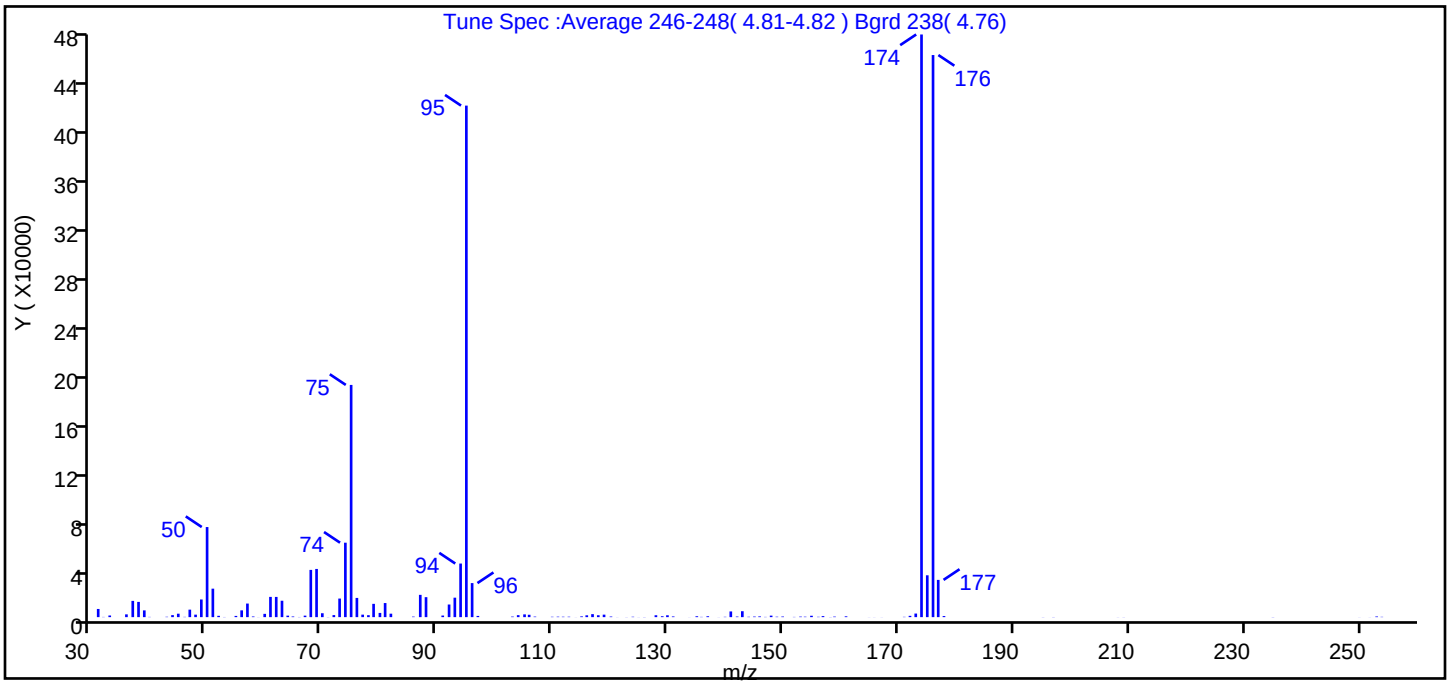
40MXBFB_00001 Amount Added: 40.00 Units: mL

MS Tune Report

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SBFBF09B.D
Injection Date: 09-Jun-2021 11:10:30 Instrument ID: MS
Lims ID: BFB
Client ID:
Operator ID: HMT ALS Bottle#: 16 Worklist Smp#: 1
Injection Vol: 500.0 mL Dil. Factor: 1.0000
Method: MS_TO15A Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.6
75	30 to 60% of m/z 95	45.4
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.7 (0.6)
174	50 to 120% of m/z 95	113.9
175	5 to 9% of m/z 174	8.2 (7.2)
176	Greater than 95% but less than 101% of m/z 174	109.9 (96.5)
177	5 to 9% of m/z 176	7.3 (6.6)

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SBFBF09B.D\MS_TO15A.rslt\spectra.d
Injection Date: 09-Jun-2021 11:10:30
Spectrum: Tune Spec :Average 246-248(4.81-4.82) Bgrd 238(4.76)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 127

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	6664	68.00	38512	112.00	340	149.00	351
32.00	170	69.00	39288	113.00	351	150.00	494
33.00	1340	70.00	3185	114.00	50	152.00	185
36.00	2272	71.00	108	115.00	618	153.00	440
37.00	13247	72.00	1674	116.00	1498	154.00	368
38.00	12424	73.00	15154	117.00	2452	155.00	1130
39.00	5509	74.00	60696	118.00	1550	156.00	276
40.00	191	75.00	189312	119.00	2037	157.00	836
43.00	300	76.00	15665	120.00	493	158.00	104
44.00	1651	77.00	2038	121.00	56	159.00	439
45.00	2808	78.00	1600	123.00	80	161.00	666
46.00	213	79.00	10843	124.00	320	165.00	56
47.00	6113	80.00	3443	125.00	64	166.00	57
48.00	2032	81.00	11491	126.00	118	167.00	57
49.00	14406	82.00	2825	128.00	1542	171.00	245
50.00	73448	86.00	430	129.00	724	172.00	1064
51.00	23216	87.00	18168	130.00	1517	173.00	2927
52.00	1082	88.00	16287	131.00	564	174.00	475008
53.00	134	91.00	1299	134.00	52	175.00	34120
55.00	1000	92.00	10294	135.00	726	176.00	458240
56.00	5538	93.00	15865	136.00	209	177.00	30368
57.00	11079	94.00	43696	137.00	730	178.00	871
58.00	526	95.00	417024	139.00	59	195.00	91
59.00	70	96.00	27760	140.00	268	197.00	123
60.00	2684	97.00	989	141.00	4655	208.00	62
61.00	16512	103.00	457	142.00	482	209.00	78
62.00	16488	104.00	1622	143.00	4836	235.00	117
63.00	13376	105.00	2257	144.00	298	250.00	54
64.00	1217	106.00	1943	145.00	465	252.00	54
65.00	526	107.00	440	146.00	602	253.00	543
66.00	131	110.00	304	147.00	195	254.00	256
67.00	1226	111.00	384	148.00	1234		

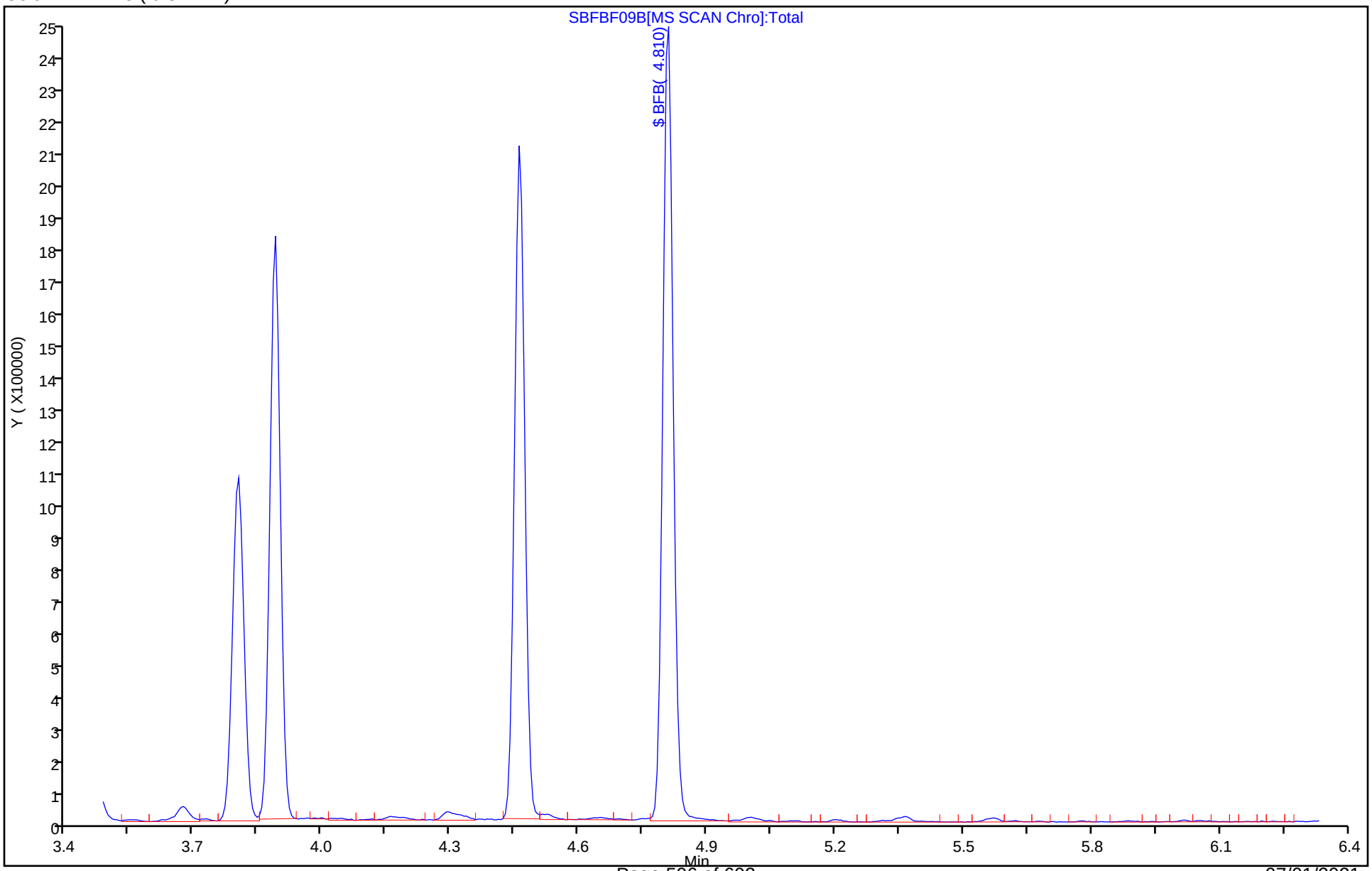
Report Date: 10-Jun-2021 10:20:12 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SBFBF09B.D

Injection Date:	09-Jun-2021 11:10:30	Instrument ID:	MS	Operator ID:	HMT
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	500.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File:	\\chromfs\Knoxville\ChromData\MS\20210628-19746.b\SBFBF29.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	29-Jun-2021 07:42:30	ALS Bottle#:	16	Worklist Smp#:	1
Injection Vol:	500.0 mL	Dil. Factor:	1.0000		
Sample Info:	140-0019746-001				
Misc. Info.:	BFB				
Operator ID:	HMT	Instrument ID:	MS		
Method:	\\chromfs\Knoxville\ChromData\MS\20210628-19746.b\MS_TO15A.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	30-Jun-2021 11:21:39	Calib Date:	09-Jun-2021 23:44:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	CTX1612				
First Level Reviewer: khachitpongpanits		Date:	30-Jun-2021 11:21:39		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
$ 5 BFB	95	4.784	4.784	0.000	0	664934	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

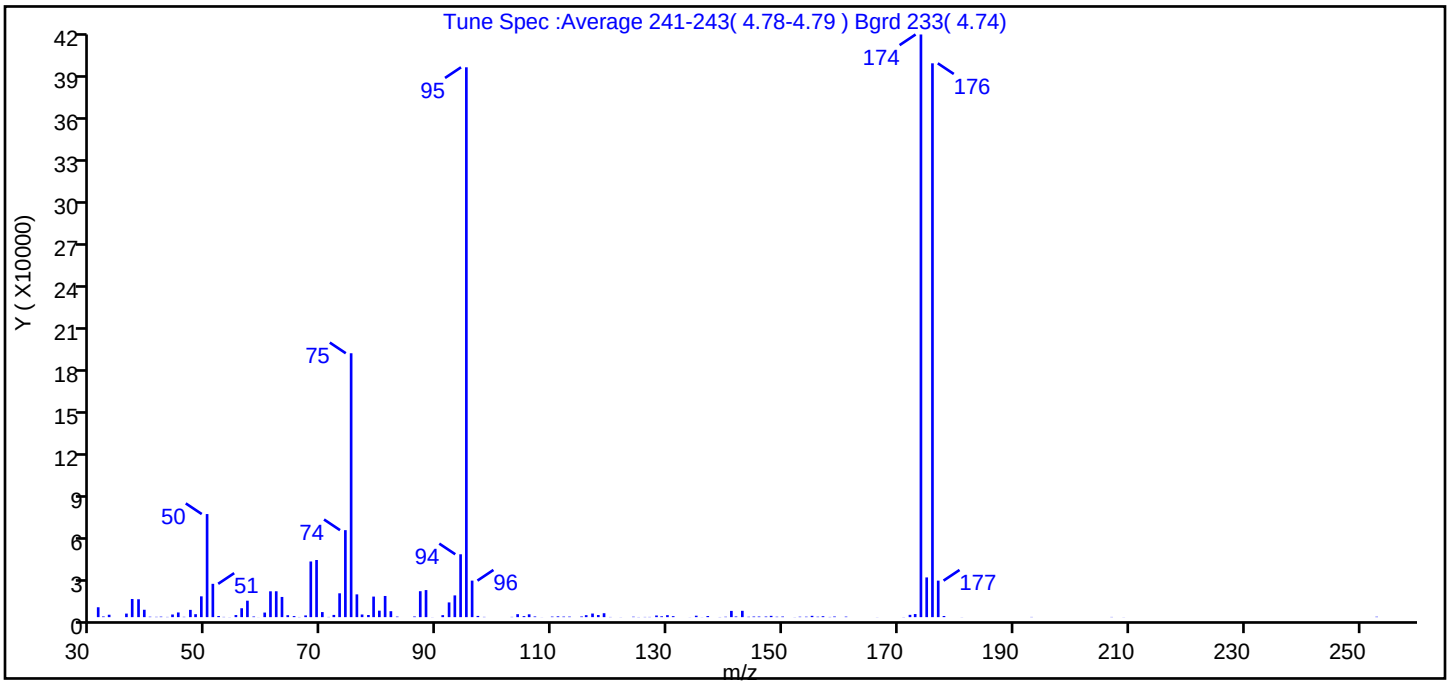
40MXBFB_00001 Amount Added: 40.00 Units: mL

MS Tune Report

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MS\20210628-19746.b\SBFBF29.D
Injection Date: 29-Jun-2021 07:42:30 Instrument ID: MS
Lims ID: BFB
Client ID:
Operator ID: HMT ALS Bottle#: 16 Worklist Smp#: 1
Injection Vol: 500.0 mL Dil. Factor: 1.0000
Method: MS_TO15A Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.7
75	30 to 60% of m/z 95	48.0
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.6 (0.5)
174	50 to 120% of m/z 95	106.0
175	5 to 9% of m/z 174	7.2 (6.8)
176	Greater than 95% but less than 101% of m/z 174	100.7 (95.1)
177	5 to 9% of m/z 176	6.6 (6.6)

Data File: \\chromfs\Knoxville\ChromData\MS\20210628-19746.b\SBFBF29.D\MS_TO15A.rslt\spectra.d
Injection Date: 29-Jun-2021 07:42:30
Spectrum: Tune Spec :Average 241-243(4.78-4.79) Bgrd 233(4.74)
Base Peak: 173.90
Minimum % Base Peak: 0
Number of Points: 127

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	7005	65.00	752	104.00	2099	143.00	4481
32.00	480	66.00	121	105.00	730	144.00	263
33.00	1711	67.00	1213	106.00	2006	145.00	436
36.00	2522	68.00	39408	107.00	496	146.00	442
37.00	12856	69.00	40448	108.00	51	147.00	440
38.00	12666	70.00	3585	110.00	395	148.00	924
39.00	5231	71.00	158	111.00	569	149.00	296
40.00	304	72.00	1572	112.00	397	150.00	429
41.00	214	73.00	16880	113.00	394	152.00	82
42.00	357	74.00	61576	115.00	470	153.00	309
43.00	162	75.00	186816	116.00	1395	154.00	323
44.00	1875	76.00	16122	117.00	2551	155.00	932
45.00	3308	77.00	1872	118.00	1491	156.00	309
46.00	228	78.00	1515	119.00	2775	157.00	659
47.00	5160	79.00	14559	120.00	139	158.00	150
48.00	2082	80.00	4588	122.00	70	159.00	451
49.00	14723	81.00	14988	124.00	300	161.00	376
50.00	72976	82.00	4208	125.00	112	166.00	61
51.00	23592	83.00	390	126.00	153	171.00	104
52.00	779	86.00	467	127.00	155	172.00	1624
53.00	176	87.00	18360	128.00	1166	173.00	2195
54.00	78	88.00	19160	129.00	590	174.00	412480
55.00	1473	89.00	65	130.00	1397	175.00	28120
56.00	6298	91.00	1402	131.00	697	176.00	392064
57.00	11650	92.00	10423	134.00	59	177.00	25848
58.00	448	93.00	15394	135.00	1024	178.00	797
59.00	51	94.00	44504	136.00	60	181.00	68
60.00	3241	95.00	389248	137.00	790	193.00	148
61.00	18288	96.00	25864	139.00	111	207.00	146
62.00	18320	97.00	865	140.00	274	209.00	62
63.00	14297	98.00	181	141.00	4423	253.00	286
64.00	1371	103.00	181	142.00	480		

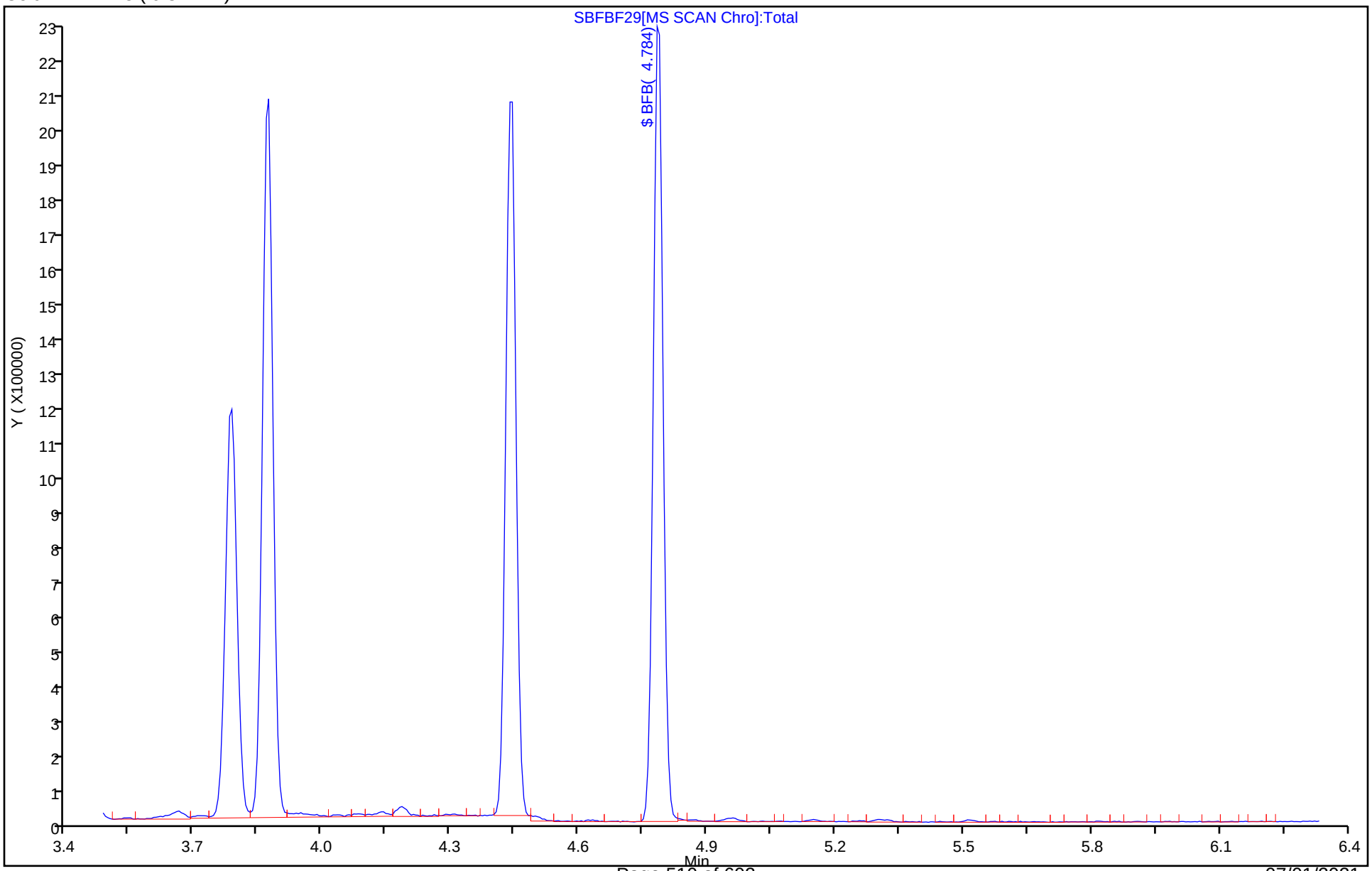
Report Date: 30-Jun-2021 11:21:39 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MS\20210628-19746.b\SBFBF29.D

Injection Date:	29-Jun-2021 07:42:30	Instrument ID:	MS	Operator ID:	HMT
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	500.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-51274/8

Matrix: Air Lab File ID: R500BF28.D

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 06/28/2021 11:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51274 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.080	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.080	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.080	
75-34-3	1,1-Dichloroethane	98.96	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.040	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.080	
106-93-4	1,2-Dibromoethane	187.87	ND		0.080	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.080	
107-06-2	1,2-Dichloroethane	98.96	ND		0.080	
78-87-5	1,2-Dichloropropane	112.99	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.080	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.080	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.080	
123-91-1	1,4-Dioxane	88.11	ND		0.20	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.20	
78-93-3	2-Butanone	72.11	ND		0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.20	
71-43-2	Benzene	78.11	ND		0.080	
100-44-7	Benzyl chloride	126.58	ND		0.16	
75-27-4	Bromodichloromethane	163.83	ND		0.080	
75-25-2	Bromoform	252.75	ND		0.080	
74-83-9	Bromomethane	94.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	ND		0.032	
108-90-7	Chlorobenzene	112.56	ND		0.080	
75-00-3	Chloroethane	64.52	ND		0.080	
67-66-3	Chloroform	119.38	ND		0.080	
74-87-3	Chloromethane	50.49	ND		0.20	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.040	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.080	
110-82-7	Cyclohexane	84.16	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-51274/8

Matrix: Air Lab File ID: R500BF28.D

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 06/28/2021 11:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51274 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.28	ND		0.080	
75-71-8	Dichlorodifluoromethane	120.91	ND		0.080	
64-17-5	Ethanol	46.07	ND		2.0	
100-41-4	Ethylbenzene	106.17	ND		0.080	
87-68-3	Hexachlorobutadiene	260.76	ND		0.080	
110-54-3	Hexane	86.17	ND		0.20	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16	
75-09-2	Methylene Chloride	84.93	ND		0.40	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.080	
91-20-3	Naphthalene	128.17	ND		0.20	
95-47-6	o-Xylene	106.17	ND		0.080	
100-42-5	Styrene	104.15	ND		0.080	
75-65-0	t-Butyl alcohol	74.12	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
108-88-3	Toluene	92.14	ND		0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.036	
75-69-4	Trichlorofluoromethane	137.37	ND		0.080	
75-01-4	Vinyl chloride	62.50	ND		0.040	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-51274/8

Matrix: Air Lab File ID: R500BF28.D

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 06/28/2021 11:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51274 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.55	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.61	
75-34-3	1,1-Dichloroethane	98.96	ND		0.32	
75-35-4	1,1-Dichloroethene	96.94	ND		0.16	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.39	
106-93-4	1,2-Dibromoethane	187.87	ND		0.61	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48	
107-06-2	1,2-Dichloroethane	98.96	ND		0.32	
78-87-5	1,2-Dichloropropane	112.99	ND		0.37	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.56	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.39	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48	
123-91-1	1,4-Dioxane	88.11	ND		0.72	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93	
78-93-3	2-Butanone	72.11	ND		0.94	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82	
71-43-2	Benzene	78.11	ND		0.26	
100-44-7	Benzyl chloride	126.58	ND		0.83	
75-27-4	Bromodichloromethane	163.83	ND		0.54	
75-25-2	Bromoform	252.75	ND		0.83	
74-83-9	Bromomethane	94.94	ND		0.31	
56-23-5	Carbon tetrachloride	153.81	ND		0.20	
108-90-7	Chlorobenzene	112.56	ND		0.37	
75-00-3	Chloroethane	64.52	ND		0.21	
67-66-3	Chloroform	119.38	ND		0.39	
74-87-3	Chloromethane	50.49	ND		0.41	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.16	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36	
110-82-7	Cyclohexane	84.16	ND		0.69	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-51274/8

Matrix: Air Lab File ID: R500BF28.D

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 06/28/2021 11:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51274 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.28	ND		0.68	
75-71-8	Dichlorodifluoromethane	120.91	ND		0.40	
64-17-5	Ethanol	46.07	ND		3.8	
100-41-4	Ethylbenzene	106.17	ND		0.35	
87-68-3	Hexachlorobutadiene	260.76	ND		0.85	
110-54-3	Hexane	86.17	ND		0.70	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58	
75-09-2	Methylene Chloride	84.93	ND		1.4	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.35	
91-20-3	Naphthalene	128.17	ND		1.0	
95-47-6	o-Xylene	106.17	ND		0.35	
100-42-5	Styrene	104.15	ND		0.34	
75-65-0	t-Butyl alcohol	74.12	ND		0.97	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
108-88-3	Toluene	92.14	ND		0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.36	
79-01-6	Trichloroethene	131.39	ND		0.19	
75-69-4	Trichlorofluoromethane	137.37	ND		0.45	
75-01-4	Vinyl chloride	62.50	ND		0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MR\20210627-19739.b\R500BF28.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 28-Jun-2021 11:54:30 ALS Bottle#: 16 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019739-008
Misc. Info.: 500ML BLK
Operator ID: HMT Instrument ID: MR

Method: \\chromfs\Knoxville\ChromData\MR\20210627-19739.b\MR_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 28-Jun-2021 22:09:24 Calib Date: 19-Jun-2021 18:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: khachitpongpanits Date: 29-Jun-2021 10:24:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.787	8.781	0.006	96	281294	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.003	10.998	0.005	96	1281653	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	15.818	15.824	-0.006	90	1115753	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.468	17.456	0.000	89	783174	4.64	4.49	
7 Propene	41	3.551	3.548	0.000	86	1151		0.0155	7
59 Dibromomethane	93	11.806	11.806	0.000	84	946		0.0103	
68 1,1,2-Trichloroethane	83	13.904	13.895	0.000	73	689		0.008730	
72 Ethylene Dibromide	107	14.912	14.907	-0.006	24	996		0.007423	
74 Chlorobenzene	112	15.861	15.861	-0.011	1	2327		0.0122	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

40MXISSUR_00001 Amount Added: 40.00 Units: mL Run Reagent

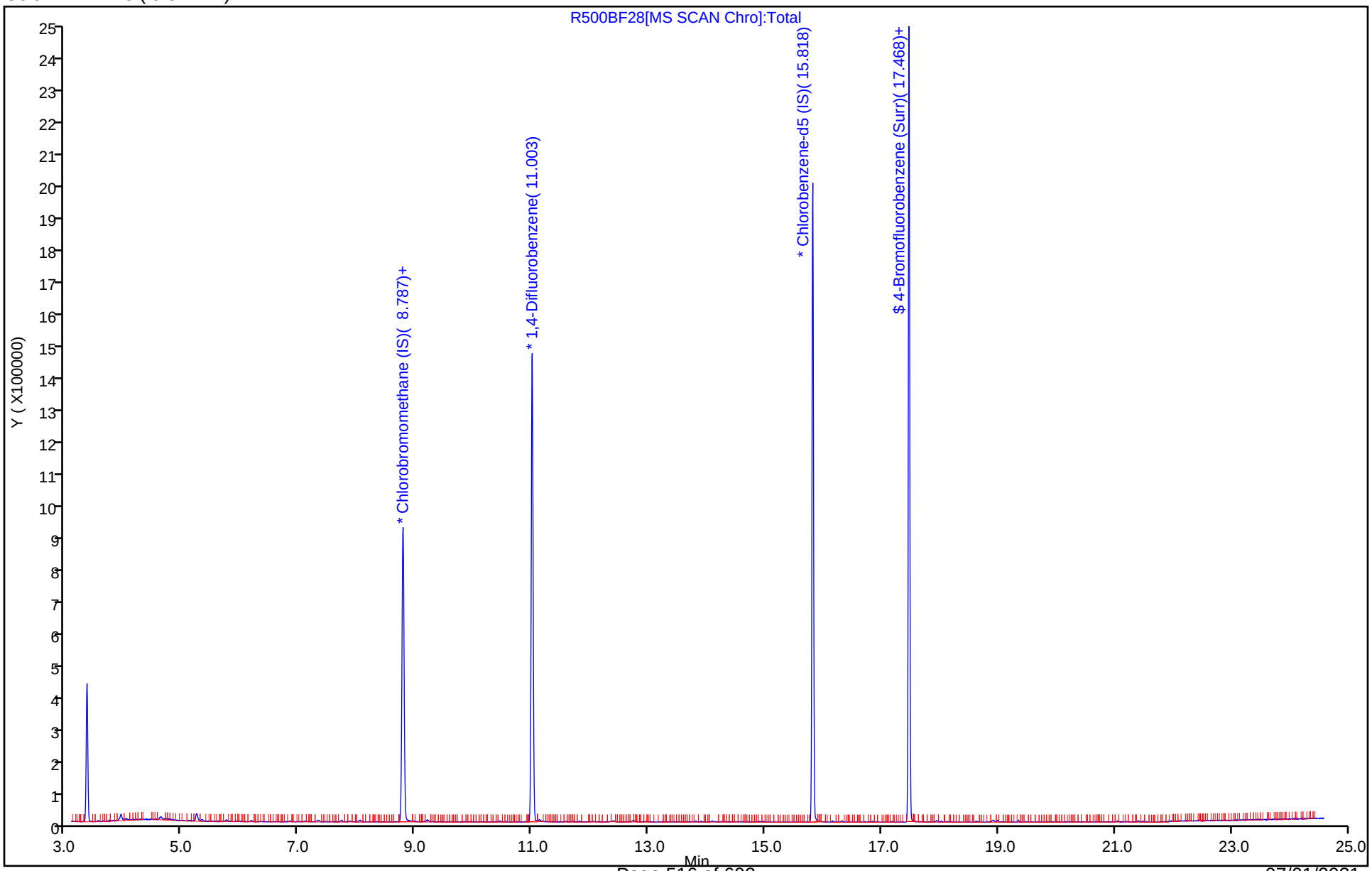
Report Date: 29-Jun-2021 11:17:48 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MR\20210627-19739.b\R500BF28.D

Injection Date:	28-Jun-2021 11:54:30	Instrument ID:	MR	Operator ID:	HMT
Lims ID:	mb			Worklist Smp#:	8
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Eurofins TestAmerica, Knoxville
Recovery Report

Data File:	\\chromfs\Knoxville\ChromData\MR\20210627-19739.b\R500BF28.D				
Lims ID:	mb				
Client ID:					
Sample Type:	MB				
Inject. Date:	28-Jun-2021 11:54:30	ALS Bottle#:	16	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	140-0019739-008				
Misc. Info.:	500ML BLK				
Operator ID:	HMT	Instrument ID:	MR		
Method:	\\chromfs\Knoxville\ChromData\MR\20210627-19739.b\MR_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	28-Jun-2021 22:09:24	Calib Date:	19-Jun-2021 18:49:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	CTX1663				
First Level Reviewer: khachitpongpanits		Date:	29-Jun-2021 10:24:21		

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.64	4.49	96.79

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-51283/4

Matrix: Air Lab File ID: S500BF29.D

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 06/29/2021 09:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51283 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.080	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.080	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.080	
75-34-3	1,1-Dichloroethane	98.96	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.040	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.080	
106-93-4	1,2-Dibromoethane	187.87	ND		0.080	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.080	
107-06-2	1,2-Dichloroethane	98.96	ND		0.080	
78-87-5	1,2-Dichloropropane	112.99	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.080	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.080	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.080	
123-91-1	1,4-Dioxane	88.11	ND		0.20	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.20	
78-93-3	2-Butanone	72.11	ND		0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.20	
71-43-2	Benzene	78.11	ND		0.080	
100-44-7	Benzyl chloride	126.58	ND		0.16	
75-27-4	Bromodichloromethane	163.83	ND		0.080	
75-25-2	Bromoform	252.75	ND		0.080	
74-83-9	Bromomethane	94.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	ND		0.032	
108-90-7	Chlorobenzene	112.56	ND		0.080	
75-00-3	Chloroethane	64.52	ND		0.080	
67-66-3	Chloroform	119.38	ND		0.080	
74-87-3	Chloromethane	50.49	ND		0.20	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.040	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.080	
110-82-7	Cyclohexane	84.16	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-51283/4

Matrix: Air Lab File ID: S500BF29.D

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 06/29/2021 09:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51283 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.28	ND		0.080	
75-71-8	Dichlorodifluoromethane	120.91	ND		0.080	
64-17-5	Ethanol	46.07	ND		2.0	
100-41-4	Ethylbenzene	106.17	ND		0.080	
87-68-3	Hexachlorobutadiene	260.76	ND		0.080	
110-54-3	Hexane	86.17	ND		0.20	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16	
75-09-2	Methylene Chloride	84.93	ND		0.40	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.080	
91-20-3	Naphthalene	128.17	ND		0.20	
95-47-6	o-Xylene	106.17	ND		0.080	
100-42-5	Styrene	104.15	ND		0.080	
75-65-0	t-Butyl alcohol	74.12	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
108-88-3	Toluene	92.14	ND		0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.036	
75-69-4	Trichlorofluoromethane	137.37	ND		0.080	
75-01-4	Vinyl chloride	62.50	ND		0.040	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-51283/4

Matrix: Air Lab File ID: S500BF29.D

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 06/29/2021 09:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51283 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.55	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.61	
75-34-3	1,1-Dichloroethane	98.96	ND		0.32	
75-35-4	1,1-Dichloroethene	96.94	ND		0.16	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.39	
106-93-4	1,2-Dibromoethane	187.87	ND		0.61	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48	
107-06-2	1,2-Dichloroethane	98.96	ND		0.32	
78-87-5	1,2-Dichloropropane	112.99	ND		0.37	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.56	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.39	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48	
123-91-1	1,4-Dioxane	88.11	ND		0.72	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93	
78-93-3	2-Butanone	72.11	ND		0.94	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82	
71-43-2	Benzene	78.11	ND		0.26	
100-44-7	Benzyl chloride	126.58	ND		0.83	
75-27-4	Bromodichloromethane	163.83	ND		0.54	
75-25-2	Bromoform	252.75	ND		0.83	
74-83-9	Bromomethane	94.94	ND		0.31	
56-23-5	Carbon tetrachloride	153.81	ND		0.20	
108-90-7	Chlorobenzene	112.56	ND		0.37	
75-00-3	Chloroethane	64.52	ND		0.21	
67-66-3	Chloroform	119.38	ND		0.39	
74-87-3	Chloromethane	50.49	ND		0.41	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.16	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36	
110-82-7	Cyclohexane	84.16	ND		0.69	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-51283/4

Matrix: Air Lab File ID: S500BF29.D

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 06/29/2021 09:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51283 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.28	ND		0.68	
75-71-8	Dichlorodifluoromethane	120.91	ND		0.40	
64-17-5	Ethanol	46.07	ND		3.8	
100-41-4	Ethylbenzene	106.17	ND		0.35	
87-68-3	Hexachlorobutadiene	260.76	ND		0.85	
110-54-3	Hexane	86.17	ND		0.70	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58	
75-09-2	Methylene Chloride	84.93	ND		1.4	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.35	
91-20-3	Naphthalene	128.17	ND		1.0	
95-47-6	o-Xylene	106.17	ND		0.35	
100-42-5	Styrene	104.15	ND		0.34	
75-65-0	t-Butyl alcohol	74.12	ND		0.97	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
108-88-3	Toluene	92.14	ND		0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.36	
79-01-6	Trichloroethene	131.39	ND		0.19	
75-69-4	Trichlorofluoromethane	137.37	ND		0.45	
75-01-4	Vinyl chloride	62.50	ND		0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MS\20210628-19746.b\S500BF29.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 29-Jun-2021 09:51:30 ALS Bottle#: 16 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019746-004
Misc. Info.: 500ML BLK
Operator ID: HMT Instrument ID: MS

Method: \\chromfs\Knoxville\ChromData\MS\20210628-19746.b\MS_TO15A.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jun-2021 11:23:37 Calib Date: 09-Jun-2021 23:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1612

First Level Reviewer: khachitpongpanits Date: 30-Jun-2021 11:23:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.223	9.217	0.006	97	214048	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.401	11.396	0.005	94	1063822	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	16.065	16.065	0.000	87	877086	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.712	17.712	0.000	96	581585	4.64	4.30	
33 Carbon disulfide	76	6.764	6.759	0.005	78	2723		0.0146	
75 Chlorobenzene	112	16.114	16.114	0.000	90	1820		0.009447	

QC Flag Legend
Processing Flags

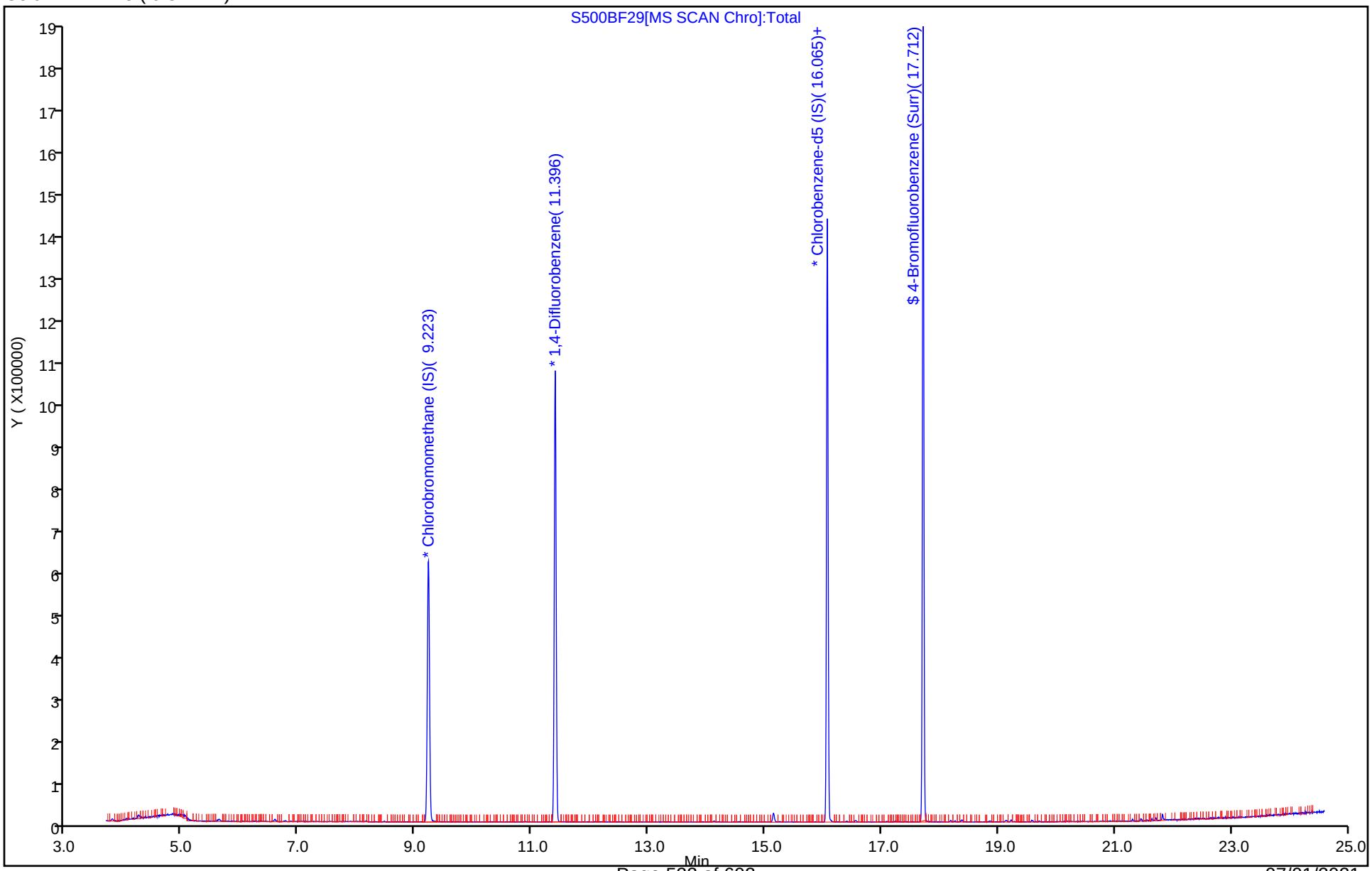
Reagents:
40MXISSUR_00001 Amount Added: 40.00 Units: mL Run Reagent

Report Date: 30-Jun-2021 11:23:38 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MS\20210628-19746.b\S500BF29.D				
Injection Date:	29-Jun-2021 09:51:30	Instrument ID:	MS	Operator ID:	HMT
Lims ID:	MB			Worklist Smp#:	4
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Eurofins TestAmerica, Knoxville
Recovery Report

Data File:	\\chromfs\Knoxville\ChromData\MS\20210628-19746.b\S500BF29.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	29-Jun-2021 09:51:30	ALS Bottle#:	16	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	140-0019746-004				
Misc. Info.:	500ML BLK				
Operator ID:	HMT	Instrument ID:	MS		
Method:	\\chromfs\Knoxville\ChromData\MS\20210628-19746.b\MS_TO15A.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	30-Jun-2021 11:23:37	Calib Date:	09-Jun-2021 23:44:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	CTX1612				

First Level Reviewer: khachitpongpanits Date: 30-Jun-2021 11:23:37

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.64	4.30	92.59

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-51316/4

Matrix: Air Lab File ID: R500BF30.D

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 06/30/2021 10:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51316 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.080	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.080	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.080	
75-34-3	1,1-Dichloroethane	98.96	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.040	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.080	
106-93-4	1,2-Dibromoethane	187.87	ND		0.080	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.080	
107-06-2	1,2-Dichloroethane	98.96	ND		0.080	
78-87-5	1,2-Dichloropropane	112.99	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.080	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.080	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.080	
123-91-1	1,4-Dioxane	88.11	ND		0.20	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.20	
78-93-3	2-Butanone	72.11	ND		0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.20	
71-43-2	Benzene	78.11	ND		0.080	
100-44-7	Benzyl chloride	126.58	ND		0.16	
75-27-4	Bromodichloromethane	163.83	ND		0.080	
75-25-2	Bromoform	252.75	ND		0.080	
74-83-9	Bromomethane	94.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	ND		0.032	
108-90-7	Chlorobenzene	112.56	ND		0.080	
75-00-3	Chloroethane	64.52	ND		0.080	
67-66-3	Chloroform	119.38	ND		0.080	
74-87-3	Chloromethane	50.49	ND		0.20	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.040	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.080	
110-82-7	Cyclohexane	84.16	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-51316/4

Matrix: Air Lab File ID: R500BF30.D

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 06/30/2021 10:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51316 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.28	ND		0.080	
75-71-8	Dichlorodifluoromethane	120.91	ND		0.080	
64-17-5	Ethanol	46.07	ND		2.0	
100-41-4	Ethylbenzene	106.17	ND		0.080	
87-68-3	Hexachlorobutadiene	260.76	ND		0.080	
110-54-3	Hexane	86.17	ND		0.20	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16	
75-09-2	Methylene Chloride	84.93	ND		0.40	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.080	
91-20-3	Naphthalene	128.17	ND		0.20	
95-47-6	o-Xylene	106.17	ND		0.080	
100-42-5	Styrene	104.15	ND		0.080	
75-65-0	t-Butyl alcohol	74.12	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
108-88-3	Toluene	92.14	ND		0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.036	
75-69-4	Trichlorofluoromethane	137.37	ND		0.080	
75-01-4	Vinyl chloride	62.50	ND		0.040	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-51316/4

Matrix: Air Lab File ID: R500BF30.D

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 06/30/2021 10:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51316 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.55	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.61	
75-34-3	1,1-Dichloroethane	98.96	ND		0.32	
75-35-4	1,1-Dichloroethene	96.94	ND		0.16	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.39	
106-93-4	1,2-Dibromoethane	187.87	ND		0.61	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48	
107-06-2	1,2-Dichloroethane	98.96	ND		0.32	
78-87-5	1,2-Dichloropropane	112.99	ND		0.37	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.56	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.39	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48	
123-91-1	1,4-Dioxane	88.11	ND		0.72	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93	
78-93-3	2-Butanone	72.11	ND		0.94	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82	
71-43-2	Benzene	78.11	ND		0.26	
100-44-7	Benzyl chloride	126.58	ND		0.83	
75-27-4	Bromodichloromethane	163.83	ND		0.54	
75-25-2	Bromoform	252.75	ND		0.83	
74-83-9	Bromomethane	94.94	ND		0.31	
56-23-5	Carbon tetrachloride	153.81	ND		0.20	
108-90-7	Chlorobenzene	112.56	ND		0.37	
75-00-3	Chloroethane	64.52	ND		0.21	
67-66-3	Chloroform	119.38	ND		0.39	
74-87-3	Chloromethane	50.49	ND		0.41	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.16	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36	
110-82-7	Cyclohexane	84.16	ND		0.69	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-51316/4

Matrix: Air Lab File ID: R500BF30.D

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 06/30/2021 10:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51316 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.28	ND		0.68	
75-71-8	Dichlorodifluoromethane	120.91	ND		0.40	
64-17-5	Ethanol	46.07	ND		3.8	
100-41-4	Ethylbenzene	106.17	ND		0.35	
87-68-3	Hexachlorobutadiene	260.76	ND		0.85	
110-54-3	Hexane	86.17	ND		0.70	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58	
75-09-2	Methylene Chloride	84.93	ND		1.4	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.35	
91-20-3	Naphthalene	128.17	ND		1.0	
95-47-6	o-Xylene	106.17	ND		0.35	
100-42-5	Styrene	104.15	ND		0.34	
75-65-0	t-Butyl alcohol	74.12	ND		0.97	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
108-88-3	Toluene	92.14	ND		0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.36	
79-01-6	Trichloroethene	131.39	ND		0.19	
75-69-4	Trichlorofluoromethane	137.37	ND		0.45	
75-01-4	Vinyl chloride	62.50	ND		0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MR\20210629-19757.b\R500BF30.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 30-Jun-2021 10:48:30 ALS Bottle#: 16 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019757-004
Misc. Info.: 500ML BLK
Operator ID: HMT Instrument ID: MR

Method: \\chromfs\Knoxville\ChromData\MR\20210629-19757.b\MR_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 01-Jul-2021 14:03:11 Calib Date: 19-Jun-2021 18:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: khachitpongpanits Date: 01-Jul-2021 14:03:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.786	8.786	0.000	95	273036	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.003	11.003	0.000	96	1266409	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	15.818	15.824	-0.006	90	1114804	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.468	17.474	-0.006	89	799004	4.64	4.59	
7 Propene	41	3.567	3.556	0.011	54	789		0.0109	7
44 Chloroform	83	8.803	8.797	0.006	34	1001		0.006407	
51 Benzene	78	10.458	10.453	0.005	92	2146		0.0100	
59 Dibromomethane	93	11.806	11.812	-0.006	31	870		0.009543	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

40MXISSUR_00001 Amount Added: 40.00 Units: mL Run Reagent

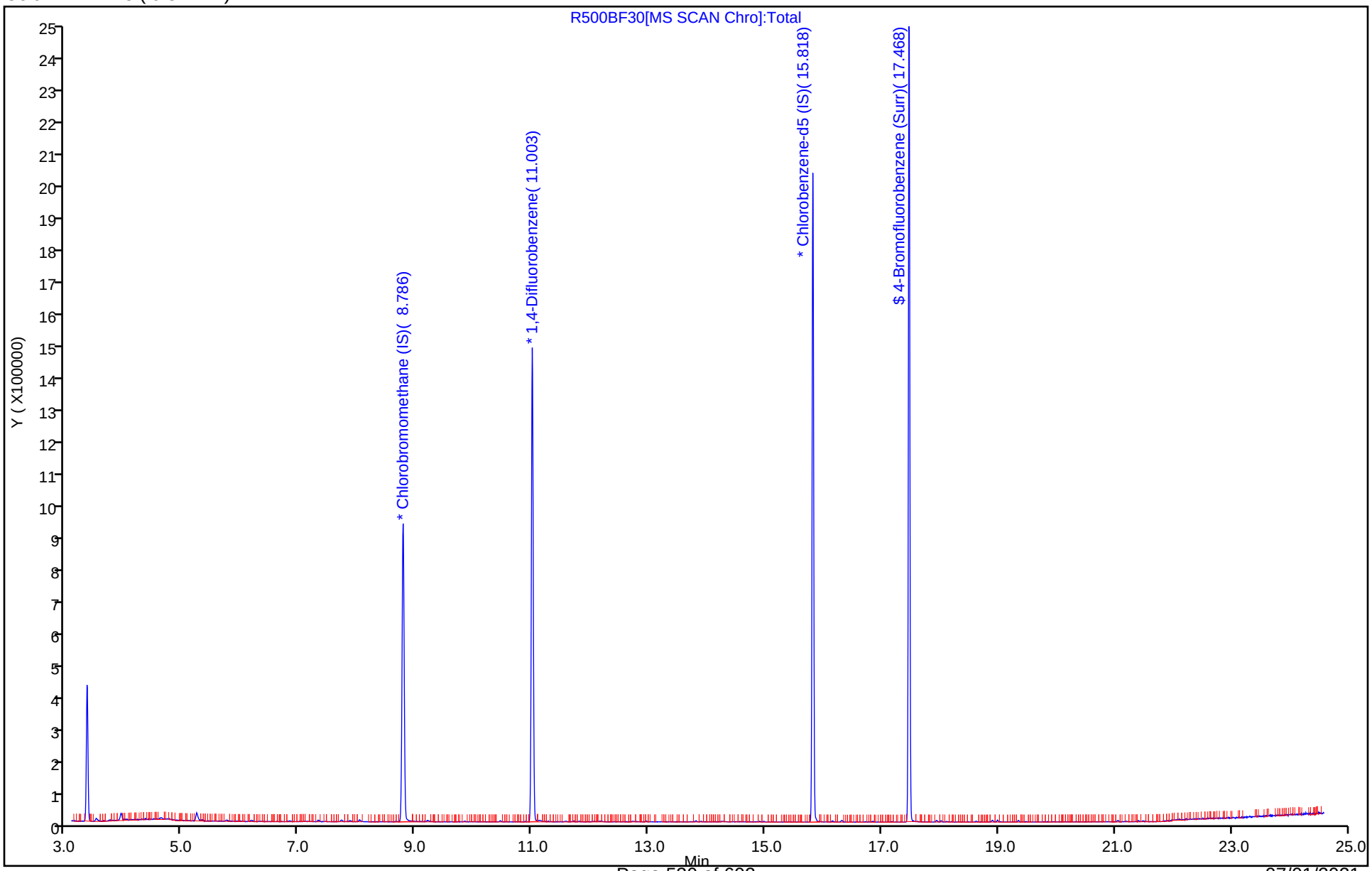
Report Date: 01-Jul-2021 14:03:11 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File: \\chromfs\Knoxville\ChromData\MR\20210629-19757.b\R500BF30.D

Injection Date:	30-Jun-2021 10:48:30	Instrument ID:	MR	Operator ID:	HMT
Lims ID:	MB			Worklist Smp#:	4
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Eurofins TestAmerica, Knoxville
Recovery Report

Data File:	\\chromfs\Knoxville\ChromData\MR\20210629-19757.b\R500BF30.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	30-Jun-2021 10:48:30	ALS Bottle#:	16	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	140-0019757-004				
Misc. Info.:	500ML BLK				
Operator ID:	HMT	Instrument ID:	MR		
Method:	\\chromfs\Knoxville\ChromData\MR\20210629-19757.b\MR_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	01-Jul-2021 14:03:11	Calib Date:	19-Jun-2021 18:49:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	CTX1621				

First Level Reviewer: khachitpongpanits Date: 01-Jul-2021 14:03:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.64	4.59	98.83

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-51274/1002

Matrix: Air Lab File ID: RCCVF28-LCS.d

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 06/28/2021 08:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51274 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	2.05		0.080	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.42		0.080	
79-00-5	1,1,2-Trichloroethane	133.41	2.23		0.080	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	2.17		0.080	
75-34-3	1,1-Dichloroethane	98.96	2.15		0.080	
75-35-4	1,1-Dichloroethene	96.94	1.91		0.040	
120-82-1	1,2,4-Trichlorobenzene	181.45	1.96		0.080	
95-63-6	1,2,4-Trimethylbenzene	120.20	2.58		0.080	
106-93-4	1,2-Dibromoethane	187.87	2.05		0.080	
95-50-1	1,2-Dichlorobenzene	147.00	2.51		0.080	
107-06-2	1,2-Dichloroethane	98.96	2.12		0.080	
78-87-5	1,2-Dichloropropane	112.99	2.22		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.45		0.080	
108-67-8	1,3,5-Trimethylbenzene	120.20	2.35		0.080	
541-73-1	1,3-Dichlorobenzene	147.00	2.41		0.080	
106-46-7	1,4-Dichlorobenzene	147.00	2.39		0.080	
123-91-1	1,4-Dioxane	88.11	2.05		0.20	
540-84-1	2,2,4-Trimethylpentane	114.23	2.03		0.20	
78-93-3	2-Butanone	72.11	1.87		0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.10		0.20	
71-43-2	Benzene	78.11	2.14		0.080	
100-44-7	Benzyl chloride	126.58	2.68		0.16	
75-27-4	Bromodichloromethane	163.83	2.27		0.080	
75-25-2	Bromoform	252.75	2.58		0.080	
74-83-9	Bromomethane	94.94	2.24		0.080	
56-23-5	Carbon tetrachloride	153.81	2.43		0.032	
108-90-7	Chlorobenzene	112.56	2.24		0.080	
75-00-3	Chloroethane	64.52	1.84		0.080	
67-66-3	Chloroform	119.38	2.20		0.080	
74-87-3	Chloromethane	50.49	1.76		0.20	
156-59-2	cis-1,2-Dichloroethene	96.94	1.93		0.040	
10061-01-5	cis-1,3-Dichloropropene	110.97	2.11		0.080	
110-82-7	Cyclohexane	84.16	1.89		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-51274/1002

Matrix: Air Lab File ID: RCCVF28-LCS.d

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 06/28/2021 08:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51274 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.28	2.32		0.080	
75-71-8	Dichlorodifluoromethane	120.91	2.21		0.080	
64-17-5	Ethanol	46.07	10.3		2.0	
100-41-4	Ethylbenzene	106.17	2.11		0.080	
87-68-3	Hexachlorobutadiene	260.76	2.23		0.080	
110-54-3	Hexane	86.17	2.10		0.20	
1634-04-4	Methyl tert-butyl ether	88.15	1.95		0.16	
75-09-2	Methylene Chloride	84.93	2.18		0.40	
179601-23-1	m-Xylene & p-Xylene	106.17	4.46		0.080	
91-20-3	Naphthalene	128.17	2.29		0.20	
95-47-6	o-Xylene	106.17	2.28		0.080	
100-42-5	Styrene	104.15	2.43		0.080	
75-65-0	t-Butyl alcohol	74.12	2.14		0.32	
127-18-4	Tetrachloroethene	165.83	1.94		0.080	
108-88-3	Toluene	92.14	1.98		0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	1.98		0.080	
10061-02-6	trans-1,3-Dichloropropene	110.97	2.11		0.080	
79-01-6	Trichloroethene	131.39	1.92		0.036	
75-69-4	Trichlorofluoromethane	137.37	2.40		0.080	
75-01-4	Vinyl chloride	62.50	2.07		0.040	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	114		60-140

Eurofins Environment Testing America
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MR\20210627-19739.b\RCCVF28-LCS.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 28-Jun-2021 08:03:30 ALS Bottle#: 7 Worklist Smp#: 1002
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019739-002
Misc. Info.: P140 100ML
Operator ID: HMT Instrument ID: MR

Method: \\chromfs\Knoxville\ChromData\MR\20210627-19739.b\MR_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 29-Jun-2021 10:21:30 Calib Date: 19-Jun-2021 18:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: khachitpongpanits Date: 29-Jun-2021 10:21:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.781	8.781	0.000	94	264071	4.80	4.80	
* 2 1,4-Difluorobenzene	114	10.998	10.998	0.000	96	1282467	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	15.824	15.824	0.000	89	1127080	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.468	17.468	0.000	90	929841	4.64	5.28	
6 Chlorodifluoromethane	51	3.540	3.540	0.000	97	291392	2.00	2.30	
7 Propene	41	3.551	3.551	0.000	98	141680	2.00	2.03	
8 Dichlorodifluoromethane	85	3.605	3.605	0.000	100	426997	2.00	2.21	
9 Chloromethane	52	3.788	3.788	0.000	56	34386	2.00	1.76	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.793	3.793	0.000	90	290207	2.00	2.45	
11 Acetaldehyde	44	3.939	3.939	0.000	95	214302	10.0	8.05	
12 Vinyl chloride	62	3.960	3.960	0.000	99	120554	2.00	2.07	
13 Butane	43	4.047	4.047	0.000	79	170953	2.00	1.84	
14 Butadiene	54	4.047	4.047	0.000	74	85040	2.00	1.82	
15 Bromomethane	94	4.370	4.370	0.000	95	118293	2.00	2.24	
16 Chloroethane	64	4.510	4.510	0.000	89	43695	2.00	1.84	
17 Ethanol	31	4.602	4.602	0.000	97	299727	10.0	10.3	
18 Vinyl bromide	106	4.818	4.818	0.000	96	132421	2.00	2.22	
19 2-Methylbutane	43	4.866	4.866	0.000	90	174087	2.00	1.84	
20 Trichlorofluoromethane	101	5.087	5.087	0.000	99	446385	2.00	2.40	
21 Acrolein	56	5.104	5.104	0.000	94	49029	2.00	2.05	
22 Acetonitrile	40	5.168	5.168	0.000	98	79142	2.00	2.32	
23 Acetone	58	5.212	5.212	0.000	99	243739	6.00	6.27	
24 Isopropyl alcohol	45	5.298	5.298	0.000	95	772740	6.00	7.18	
25 Pentane	72	5.314	5.314	0.000	97	20424	2.00	2.16	
26 Ethyl ether	31	5.481	5.481	0.000	90	174962	2.00	2.02	
27 1,1-Dichloroethene	96	5.815	5.815	0.000	93	133578	2.00	1.91	
28 2-Methyl-2-propanol	59	5.907	5.907	0.000	97	277562	2.00	2.14	
29 Acrylonitrile	53	5.929	5.929	0.000	93	126845	2.00	2.28	
30 112TCTFE	101	5.993	5.993	0.000	94	331729	2.00	2.17	
31 Methylene Chloride	84	6.177	6.177	0.000	93	134513	2.00	2.18	
32 3-Chloro-1-propene	39	6.193	6.193	0.000	96	139060	2.00	2.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 Carbon disulfide	76	6.344	6.344	0.000	99	442269	2.00	2.33	
34 trans-1,2-Dichloroethene	96	7.007	7.007	0.000	93	136802	2.00	1.98	
35 2-Methylpentane	43	7.018	7.018	0.000	95	383516	2.00	2.00	
36 Methyl tert-butyl ether	73	7.120	7.120	0.000	96	364334	2.00	1.95	
37 1,1-Dichloroethane	63	7.439	7.439	0.000	99	294509	2.00	2.15	
38 Vinyl acetate	43	7.541	7.541	0.000	100	376584	2.00	1.84	
39 2-Butanone (MEK)	72	7.994	7.994	0.000	96	68883	2.00	1.87	
40 Hexane	56	8.021	8.021	0.000	88	126047	2.00	2.10	
41 Isopropyl ether	45	8.172	8.172	0.000	95	554216	2.00	2.00	
42 cis-1,2-Dichloroethene	96	8.442	8.442	0.000	98	144033	2.00	1.93	
43 Ethyl acetate	43	8.619	8.619	0.000	98	389326	2.00	2.08	
44 Chloroform	83	8.792	8.792	0.000	96	332434	2.00	2.20	
45 Tert-butyl ethyl ether	59	8.862	8.862	0.000	98	472246	2.00	2.04	
46 Tetrahydrofuran	42	9.186	9.186	0.000	92	188022	2.00	1.98	
47 1,1,1-Trichloroethane	97	9.833	9.833	0.000	95	307794	2.00	2.05	
48 1,2-Dichloroethane	62	9.951	9.951	0.000	96	234461	2.00	2.12	
49 n-Butanol	31	10.388	10.388	0.000	90	63051	2.00	1.85	
50 Cyclohexane	69	10.437	10.437	0.000	85	65089	2.00	1.89	
51 Benzene	78	10.447	10.447	0.000	98	465436	2.00	2.14	
52 Carbon tetrachloride	117	10.464	10.464	0.000	94	344116	2.00	2.43	
53 2,3-Dimethylpentane	71	10.555	10.555	0.000	90	97160	2.00	1.98	
54 Thiophene	84	10.717	10.717	0.000	97	254318	2.00	2.11	
55 Isooctane	57	11.208	11.208	0.000	97	790481	2.00	2.03	
56 n-Heptane	71	11.585	11.585	0.000	94	147782	2.00	1.97	
57 1,2-Dichloropropane	63	11.688	11.688	0.000	92	207698	2.00	2.22	
58 Trichloroethene	130	11.715	11.715	0.000	92	189038	2.00	1.92	
59 Dibromomethane	93	11.806	11.806	0.000	93	205788	2.00	2.23	
60 Dichlorobromomethane	83	11.957	11.957	0.000	97	328687	2.00	2.27	
61 1,4-Dioxane	88	11.963	11.963	0.000	98	67785	2.00	2.05	
62 Methyl methacrylate	41	12.044	12.044	0.000	89	238231	2.00	2.02	
63 Methylcyclohexane	83	12.502	12.502	0.000	89	249613	2.00	1.87	
64 4-Methyl-2-pentanone (MIBK)	43	12.917	12.917	0.000	98	447222	2.00	2.10	
65 cis-1,3-Dichloropropene	75	12.987	12.987	0.000	99	260590	2.00	2.11	
66 trans-1,3-Dichloropropene	75	13.704	13.704	0.000	95	208969	2.00	2.11	
67 Toluene	91	13.823	13.823	0.000	92	512816	2.00	1.98	
68 1,1,2-Trichloroethane	83	13.904	13.904	0.000	94	177664	2.00	2.23	
69 2-Hexanone	58	14.287	14.287	0.000	89	180356	2.00	2.10	
70 n-Octane	85	14.513	14.513	0.000	97	146598	2.00	1.96	
71 Chlorodibromomethane	129	14.621	14.621	0.000	96	307742	2.00	2.32	
72 Ethylene Dibromide	107	14.918	14.918	0.000	97	278329	2.00	2.05	
73 Tetrachloroethene	129	14.982	14.982	0.000	93	186546	2.00	1.94	
74 Chlorobenzene	112	15.872	15.872	0.000	91	431046	2.00	2.24	
75 2,3-Dimethylheptane	43	15.878	15.878	0.000	94	672362	2.00	2.27	
76 Ethylbenzene	91	16.158	16.158	0.000	99	701347	2.00	2.11	
77 m-Xylene & p-Xylene	91	16.320	16.320	0.000	98	1171773	4.00	4.46	
78 n-Nonane	57	16.730	16.730	0.000	95	381529	2.00	2.22	
79 Bromoform	173	16.778	16.778	0.000	94	355997	2.00	2.58	
80 Styrene	104	16.789	16.789	0.000	99	420419	2.00	2.43	
81 o-Xylene	91	16.848	16.848	0.000	99	630288	2.00	2.28	
82 1,1,2,2-Tetrachloroethane	83	17.177	17.177	0.000	98	469770	2.00	2.42	
83 1,2,3-Trichloropropane	110	17.339	17.339	0.000	95	110267	2.00	2.24	
84 Isopropylbenzene	105	17.436	17.436	0.000	95	812309	2.00	2.26	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
85 N-Propylbenzene	120	17.975	17.975	0.000	99	226401	2.00	2.24	
86 2-Chlorotoluene	126	18.024	18.024	0.000	98	217435	2.00	2.36	
88 4-Ethyltoluene	105	18.121	18.121	0.000	98	873217	2.00	2.35	
87 1,3,5-Trimethylbenzene	120	18.196	18.196	0.000	92	353827	2.00	2.35	
89 Alpha Methyl Styrene	118	18.423	18.423	0.000	88	339816	2.00	2.32	
90 n-Decane	57	18.471	18.471	0.000	88	585464	2.00	2.55	
91 tert-Butylbenzene	119	18.617	18.617	0.000	90	819308	2.00	2.51	
92 1,2,4-Trimethylbenzene	105	18.628	18.628	0.000	96	819142	2.00	2.58	
93 sec-Butylbenzene	105	18.881	18.881	0.000	99	1144817	2.00	2.51	
94 1,3-Dichlorobenzene	146	18.903	18.903	0.000	98	507669	2.00	2.41	
95 Benzyl chloride	91	18.978	18.978	0.000	97	595213	2.00	2.68	
96 1,4-Dichlorobenzene	146	18.989	18.989	0.000	94	489575	2.00	2.39	
97 4-Isopropyltoluene	119	19.043	19.043	0.000	97	957586	2.00	2.53	
98 1,2,3-Trimethylbenzene	105	19.097	19.097	0.000	99	841996	2.00	2.57	
99 Butylcyclohexane	83	19.151	19.151	0.000	92	711012	2.00	2.74	
100 2,3-Dihydroindene	117	19.345	19.345	0.000	92	779213	2.00	2.60	
101 1,2-Dichlorobenzene	146	19.350	19.350	0.000	96	526394	2.00	2.51	
103 n-Butylbenzene	91	19.474	19.474	0.000	94	1076363	2.00	2.86	
102 Indene	116	19.474	19.474	0.000	75	670416	2.00	2.74	
104 Undecane	57	19.771	19.771	0.000	94	692886	2.00	2.60	
105 1,2-Dibromo-3-Chloropropane	157	19.949	19.949	0.000	94	264323	2.00	2.53	
106 1,2,4,5-Tetramethylbenzene	119	20.224	20.224	0.000	96	898460	2.00	2.42	
107 Dodecane	57	20.833	20.833	0.000	92	677771	2.00	2.46	
108 1,2,4-Trichlorobenzene	180	21.049	21.049	0.000	94	391703	2.00	1.96	
109 Naphthalene	128	21.200	21.200	0.000	99	870604	2.00	2.29	
110 Hexachlorobutadiene	225	21.410	21.410	0.000	95	503374	2.00	2.23	
111 1,2,3-Trichlorobenzene	180	21.480	21.480	0.000	95	439868	2.00	2.21	
112 2-Methylnaphthalene	142	22.100	22.100	0.000	99	387331	2.00	3.59	
113 1-Methylnaphthalene	142	22.224	22.224	0.000	99	514677	2.00	4.38	
A 116 C8 Range	1	14.519	(14.476-14.562)		0	1792391	2.00	2.10	
S 117 Xylenes, Total	100				0		6.00	6.74	
S 118 1,2-Dichloroethene, Total	1				0		4.00	3.91	

QC Flag Legend

Processing Flags

Reagents:

40CV101P_00140	Amount Added: 100.00	Units: ml	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

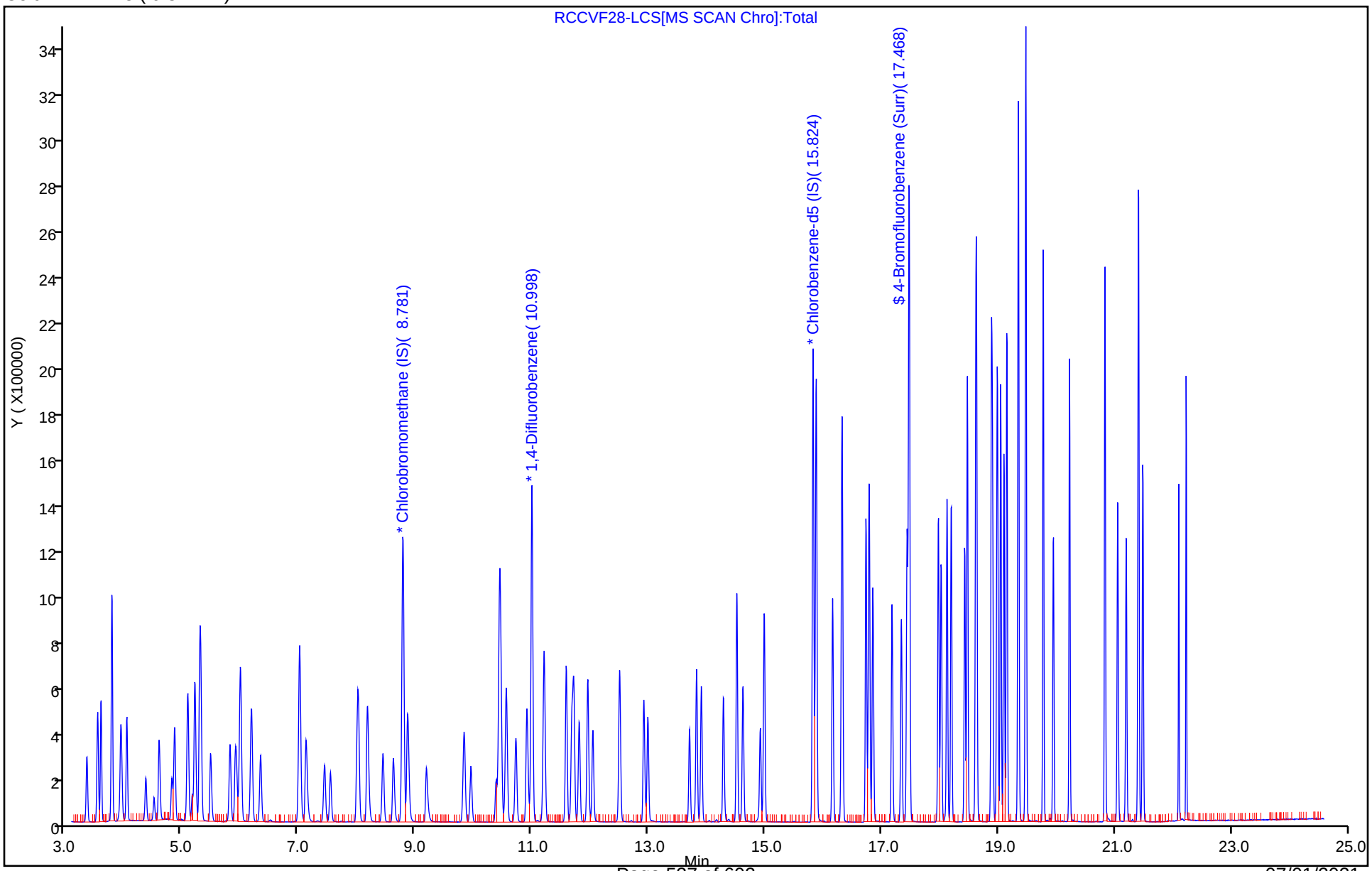
Report Date: 29-Jun-2021 10:21:32 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Environment Testing America

Data File: \\chromfs\Knoxville\ChromData\MR\20210627-19739.b\RCCVF28-LCS.d

Injection Date:	28-Jun-2021 08:03:30	Instrument ID:	MR	Operator ID:	HMT
Lims ID:	LCS			Worklist Smp#:	1002
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Eurofins Environment Testing America
Recovery Report

Data File:	\\chromfs\Knoxville\ChromData\MR\20210627-19739.b\RCCVF28-LCS.d				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	28-Jun-2021 08:03:30	ALS Bottle#:	7	Worklist Smp#:	1002
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	140-0019739-002				
Misc. Info.:	P140 100ML				
Operator ID:	HMT	Instrument ID:	MR		
Method:	\\chromfs\Knoxville\ChromData\MR\20210627-19739.b\MR_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	29-Jun-2021 10:21:30	Calib Date:	19-Jun-2021 18:49:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	CTX1663				

First Level Reviewer: khachitpongpanits Date: 29-Jun-2021 10:21:30

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.64	5.28	113.76

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-51283/1002

Matrix: Air Lab File ID: SCCVF29-LCS.d

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 06/29/2021 08:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51283 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	1.87		0.080	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.08		0.080	
79-00-5	1,1,2-Trichloroethane	133.41	1.98		0.080	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	1.93		0.080	
75-34-3	1,1-Dichloroethane	98.96	2.00		0.080	
75-35-4	1,1-Dichloroethene	96.94	1.88		0.040	
120-82-1	1,2,4-Trichlorobenzene	181.45	1.69		0.080	
95-63-6	1,2,4-Trimethylbenzene	120.20	1.96		0.080	
106-93-4	1,2-Dibromoethane	187.87	1.96		0.080	
95-50-1	1,2-Dichlorobenzene	147.00	1.89		0.080	
107-06-2	1,2-Dichloroethane	98.96	1.97		0.080	
78-87-5	1,2-Dichloropropane	112.99	2.09		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.00		0.080	
108-67-8	1,3,5-Trimethylbenzene	120.20	2.26		0.080	
541-73-1	1,3-Dichlorobenzene	147.00	1.86		0.080	
106-46-7	1,4-Dichlorobenzene	147.00	1.84		0.080	
123-91-1	1,4-Dioxane	88.11	1.69		0.20	
540-84-1	2,2,4-Trimethylpentane	114.23	2.08		0.20	
78-93-3	2-Butanone	72.11	1.79		0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.84		0.20	
71-43-2	Benzene	78.11	1.95		0.080	
100-44-7	Benzyl chloride	126.58	1.94		0.16	
75-27-4	Bromodichloromethane	163.83	1.99		0.080	
75-25-2	Bromoform	252.75	2.17		0.080	
74-83-9	Bromomethane	94.94	2.32		0.080	
56-23-5	Carbon tetrachloride	153.81	2.03		0.032	
108-90-7	Chlorobenzene	112.56	1.95		0.080	
75-00-3	Chloroethane	64.52	2.39		0.080	
67-66-3	Chloroform	119.38	1.92		0.080	
74-87-3	Chloromethane	50.49	2.05		0.20	
156-59-2	cis-1,2-Dichloroethene	96.94	1.97		0.040	
10061-01-5	cis-1,3-Dichloropropene	110.97	2.08		0.080	
110-82-7	Cyclohexane	84.16	1.98		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-51283/1002

Matrix: Air Lab File ID: SCCVF29-LCS.d

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 06/29/2021 08:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51283 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.28	1.98		0.080	
75-71-8	Dichlorodifluoromethane	120.91	1.93		0.080	
64-17-5	Ethanol	46.07	6.92		2.0	
100-41-4	Ethylbenzene	106.17	1.97		0.080	
87-68-3	Hexachlorobutadiene	260.76	1.74		0.080	
110-54-3	Hexane	86.17	2.03		0.20	
1634-04-4	Methyl tert-butyl ether	88.15	1.93		0.16	
75-09-2	Methylene Chloride	84.93	1.86		0.40	
179601-23-1	m-Xylene & p-Xylene	106.17	3.97		0.080	
91-20-3	Naphthalene	128.17	1.46		0.20	
95-47-6	o-Xylene	106.17	1.97		0.080	
100-42-5	Styrene	104.15	2.04		0.080	
75-65-0	t-Butyl alcohol	74.12	1.75		0.32	
127-18-4	Tetrachloroethene	165.83	1.81		0.080	
108-88-3	Toluene	92.14	1.94		0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	1.89		0.080	
10061-02-6	trans-1,3-Dichloropropene	110.97	2.06		0.080	
79-01-6	Trichloroethene	131.39	1.86		0.036	
75-69-4	Trichlorofluoromethane	137.37	1.82		0.080	
75-01-4	Vinyl chloride	62.50	2.22		0.040	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

Eurofins Environment Testing America
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MS\20210628-19746.b\SCCVF29-LCS.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 29-Jun-2021 08:12:30 ALS Bottle#: 1 Worklist Smp#: 1002
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019746-002
Misc. Info.: S145 100ML
Operator ID: HMT Instrument ID: MS

Method: \\chromfs\Knoxville\ChromData\MS\20210628-19746.b\MS_TO15A.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 30-Jun-2021 11:22:40 Calib Date: 09-Jun-2021 23:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1612

First Level Reviewer: khachitpongpanits Date: 30-Jun-2021 11:22:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.217	9.217	0.000	97	195219	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.396	11.396	0.000	94	979316	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	16.065	16.065	0.000	87	843518	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.712	17.712	0.000	96	620489	4.64	4.77	
6 Chlorodifluoromethane	51	3.811	3.811	0.000	96	218288	2.00	1.98	
7 Propene	41	3.821	3.821	0.000	97	86786	2.00	1.85	
8 Dichlorodifluoromethane	85	3.881	3.881	0.000	99	297883	2.00	1.93	
9 Chloromethane	52	4.074	4.074	0.000	98	46805	2.00	2.05	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.080	4.080	0.000	89	287276	2.00	2.00	
11 Acetaldehyde	44	4.241	4.241	0.000	81	220230	10.0	6.85	
12 Vinyl chloride	62	4.263	4.263	0.000	98	162184	2.00	2.22	
14 Butane	43	4.354	4.354	0.000	85	166842	2.00	2.00	
13 Butadiene	54	4.354	4.354	0.000	73	114239	2.00	2.24	
15 Bromomethane	94	4.704	4.704	0.000	99	141690	2.00	2.32	
16 Chloroethane	64	4.854	4.854	0.000	91	58808	2.00	2.39	
17 Ethanol	31	4.940	4.940	0.000	85	121066	10.0	6.92	
18 Vinyl bromide	106	5.177	5.177	0.000	98	114733	2.00	1.85	
19 2-Methylbutane	43	5.231	5.231	0.000	89	129171	2.00	1.89	
20 Trichlorofluoromethane	101	5.468	5.468	0.000	99	278255	2.00	1.82	
21 Acrolein	56	5.473	5.473	0.000	34	44313	2.00	2.02	
22 Acetonitrile	40	5.543	5.543	0.000	99	41340	2.00	1.68	
23 Acetone	58	5.591	5.591	0.000	95	70002	2.00	1.73	
24 Isopropyl alcohol	45	5.672	5.672	0.000	94	154140	2.00	2.00	
25 Pentane	72	5.699	5.699	0.000	95	12817	2.00	2.01	
26 Ethyl ether	31	5.876	5.876	0.000	89	92818	2.00	1.78	
27 1,1-Dichloroethene	96	6.221	6.221	0.000	94	105140	2.00	1.88	
29 2-Methyl-2-propanol	59	6.301	6.301	0.000	93	182730	2.00	1.75	
28 Acrylonitrile	53	6.323	6.323	0.000	97	97378	2.00	1.97	
30 112TCTFE	101	6.398	6.398	0.000	98	251806	2.00	1.93	
31 Methylene Chloride	84	6.581	6.581	0.000	98	102849	2.00	1.86	
32 3-Chloro-1-propene	39	6.603	6.603	0.000	94	80959	2.00	1.96	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 Carbon disulfide	76	6.759	6.759	0.000	98	327666	2.00	1.93	
34 trans-1,2-Dichloroethene	96	7.426	7.426	0.000	95	104129	2.00	1.89	
35 2-Methylpentane	43	7.442	7.442	0.000	96	223708	2.00	1.71	
36 Methyl tert-butyl ether	73	7.544	7.544	0.000	97	265772	2.00	1.93	
37 1,1-Dichloroethane	63	7.867	7.867	0.000	99	239433	2.00	2.00	
38 Vinyl acetate	43	7.964	7.964	0.000	100	249048	2.00	1.99	
39 2-Butanone (MEK)	72	8.416	8.416	0.000	97	50004	2.00	1.79	
40 Hexane	56	8.459	8.459	0.000	86	97171	2.00	2.03	
41 Isopropyl ether	45	8.604	8.604	0.000	98	375510	2.00	1.92	
42 cis-1,2-Dichloroethene	96	8.884	8.884	0.000	98	113533	2.00	1.97	
43 Ethyl acetate	43	9.045	9.045	0.000	98	229378	2.00	1.77	
44 Chloroform	83	9.228	9.228	0.000	94	242592	2.00	1.92	
45 Tert-butyl ethyl ether	59	9.303	9.303	0.000	93	355354	2.00	1.90	
46 Tetrahydrofuran	42	9.626	9.626	0.000	95	117010	2.00	1.91	
47 1,1,1-Trichloroethane	97	10.277	10.277	0.000	96	215410	2.00	1.87	
48 1,2-Dichloroethane	62	10.390	10.390	0.000	96	160202	2.00	1.97	
49 n-Butanol	31	10.799	10.799	0.000	80	26191	2.00	1.48	
50 Cyclohexane	69	10.869	10.869	0.000	72	51061	2.00	1.98	
51 Benzene	78	10.874	10.874	0.000	97	361582	2.00	1.95	
52 Carbon tetrachloride	117	10.890	10.890	0.000	97	238612	2.00	2.03	
53 2,3-Dimethylpentane	71	10.976	10.976	0.000	91	71367	2.00	2.05	
54 Thiophene	84	11.143	11.143	0.000	97	195125	2.00	1.91	
55 Isooctane	57	11.606	11.606	0.000	98	668580	2.00	2.08	
56 n-Heptane	71	11.972	11.972	0.000	88	108324	2.00	2.07	
57 1,2-Dichloropropane	63	12.068	12.068	0.000	97	174885	2.00	2.09	
58 Trichloroethene	130	12.106	12.106	0.000	95	153095	2.00	1.86	
59 Dibromomethane	93	12.192	12.192	0.000	96	156209	2.00	1.95	
60 Dichlorobromomethane	83	12.327	12.327	0.000	99	242166	2.00	1.99	
61 1,4-Dioxane	88	12.332	12.332	0.000	37	42965	2.00	1.69	
62 Methyl methacrylate	41	12.407	12.407	0.000	97	127451	2.00	1.81	
63 Methylcyclohexane	83	12.859	12.859	0.000	95	243360	2.00	2.18	
64 4-Methyl-2-pentanone (MIBK)	43	13.241	13.241	0.000	95	249091	2.00	1.84	
65 cis-1,3-Dichloropropene	75	13.311	13.311	0.000	91	200183	2.00	2.08	
66 trans-1,3-Dichloropropene	75	13.994	13.994	0.000	96	166050	2.00	2.06	
67 Toluene	91	14.123	14.123	0.000	92	419354	2.00	1.94	
68 1,1,2-Trichloroethane	83	14.193	14.193	0.000	96	142954	2.00	1.98	
69 2-Hexanone	58	14.559	14.559	0.000	95	148061	2.00	2.06	
70 n-Octane	85	14.785	14.785	0.000	91	110699	2.00	2.07	
71 Chlorodibromomethane	129	14.893	14.893	0.000	97	257636	2.00	1.98	
72 Ethylene Dibromide	107	15.183	15.183	0.000	98	242002	2.00	1.96	
73 Tetrachloroethene	129	15.248	15.248	0.000	96	157778	2.00	1.81	
74 2,3-Dimethylheptane	43	16.114	16.114	0.000	95	361718	2.00	1.77	
75 Chlorobenzene	112	16.114	16.114	0.000	92	361809	2.00	1.95	
76 Ethylbenzene	91	16.394	16.394	0.000	98	528569	2.00	1.97	
77 m-Xylene & p-Xylene	91	16.555	16.555	0.000	97	856477	4.00	3.97	
78 n-Nonane	57	16.958	16.958	0.000	90	317010	2.00	2.18	
79 Bromoform	173	17.018	17.018	0.000	97	302937	2.00	2.17	
80 Styrene	104	17.023	17.023	0.000	98	325335	2.00	2.04	
81 o-Xylene	91	17.082	17.082	0.000	99	435337	2.00	1.97	
82 1,1,2,2-Tetrachloroethane	83	17.410	17.410	0.000	98	358746	2.00	2.08	
83 1,2,3-Trichloropropane	110	17.572	17.572	0.000	97	72658	2.00	1.98	
84 Isopropylbenzene	105	17.674	17.674	0.000	95	618800	2.00	2.02	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
85 N-Propylbenzene	120	18.206	18.206	0.000	99	166404	2.00	2.03	
86 2-Chlorotoluene	126	18.255	18.255	0.000	97	162139	2.00	1.99	
87 4-Ethyltoluene	105	18.357	18.357	0.000	99	598791	2.00	1.90	
88 1,3,5-Trimethylbenzene	120	18.427	18.427	0.000	92	278983	2.00	2.26	
89 Alpha Methyl Styrene	118	18.653	18.653	0.000	89	237290	2.00	1.87	
90 n-Decane	57	18.696	18.696	0.000	86	439995	2.00	2.20	
91 tert-Butylbenzene	119	18.847	18.847	0.000	92	553889	2.00	1.96	
92 1,2,4-Trimethylbenzene	105	18.863	18.863	0.000	96	549618	2.00	1.96	
93 sec-Butylbenzene	105	19.116	19.116	0.000	99	807959	2.00	1.98	
94 1,3-Dichlorobenzene	146	19.137	19.137	0.000	97	397106	2.00	1.86	
95 Benzyl chloride	91	19.207	19.207	0.000	98	382206	2.00	1.94	
96 1,4-Dichlorobenzene	146	19.218	19.218	0.000	96	387893	2.00	1.84	
97 4-Isopropyltoluene	119	19.272	19.272	0.000	97	618880	2.00	1.91	
98 1,2,3-Trimethylbenzene	105	19.331	19.331	0.000	98	407916	2.00	1.45	
99 Butylcyclohexane	83	19.379	19.379	0.000	94	440497	2.00	1.99	
100 2,3-Dihydroindene	117	19.578	19.578	0.000	93	541698	2.00	2.00	
101 1,2-Dichlorobenzene	146	19.578	19.578	0.000	98	405452	2.00	1.89	
102 n-Butylbenzene	91	19.702	19.702	0.000	96	700218	2.00	2.07	
103 Indene	116	19.707	19.707	0.000	88	383735	2.00	1.75	
104 Undecane	57	19.998	19.998	0.000	92	477809	2.00	2.10	
105 1,2-Dibromo-3-Chloropropane	157	20.175	20.175	0.000	96	146906	2.00	1.62	
106 1,2,4,5-Tetramethylbenzene	119	20.455	20.455	0.000	97	553681	2.00	1.74	
107 Dodecane	57	21.068	21.068	0.000	95	463239	2.00	1.94	
108 1,2,4-Trichlorobenzene	180	21.305	21.305	0.000	93	284062	2.00	1.69	
109 Naphthalene	128	21.450	21.450	0.000	99	583099	2.00	1.46	
110 Hexachlorobutadiene	225	21.644	21.644	0.000	92	443924	2.00	1.74	
111 1,2,3-Trichlorobenzene	180	21.709	21.709	0.000	93	312794	2.00	1.75	
112 2-Methylnaphthalene	142	22.263	22.263	0.000	99	166418	2.00	1.87	
113 1-Methylnaphthalene	142	22.386	22.386	0.000	99	199971	2.00	2.02	
A 115 C8 Range	1	14.790	(14.737-14.833)		0	1149424	2.00	1.96	
S 116 Xylenes, Total	100				0		6.00	5.94	
S 117 1,2-Dichloroethene, Total	1				0		4.00	3.86	
T 141 2-Methylthiophene TIC	97	14.274	14.274	0.000	96	328759	2.00	1.87	
T 142 3-Methylthiophene TIC	97	14.473	14.473	0.000	94	323075	2.00	1.84	
T 144 2-Ethylthiophene TIC	97	16.496	16.496	0.000	59	390262	2.00	2.22	
T 149 1,2-Dimethyl-4-Ethylbenzene TIC	119	20.068	20.068	0.000	98	461286	2.00	2.62	
T 150 1,2,3,5-Tetramethylbenzene TIC	119	20.509	20.509	0.000	95	338493	2.00	1.93	
T 151 1,2,3,4-Tetramethylbenzene TIC	119	20.923	20.923	0.000	96	440580	2.00	2.51	
T 152 Benzo(b)thiophene TIC	134	21.553	21.553	0.000	98	317322	2.00	1.81	

QC Flag Legend

Processing Flags

Reagents:

40CV101S_00145	Amount Added: 100.00	Units: ml	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

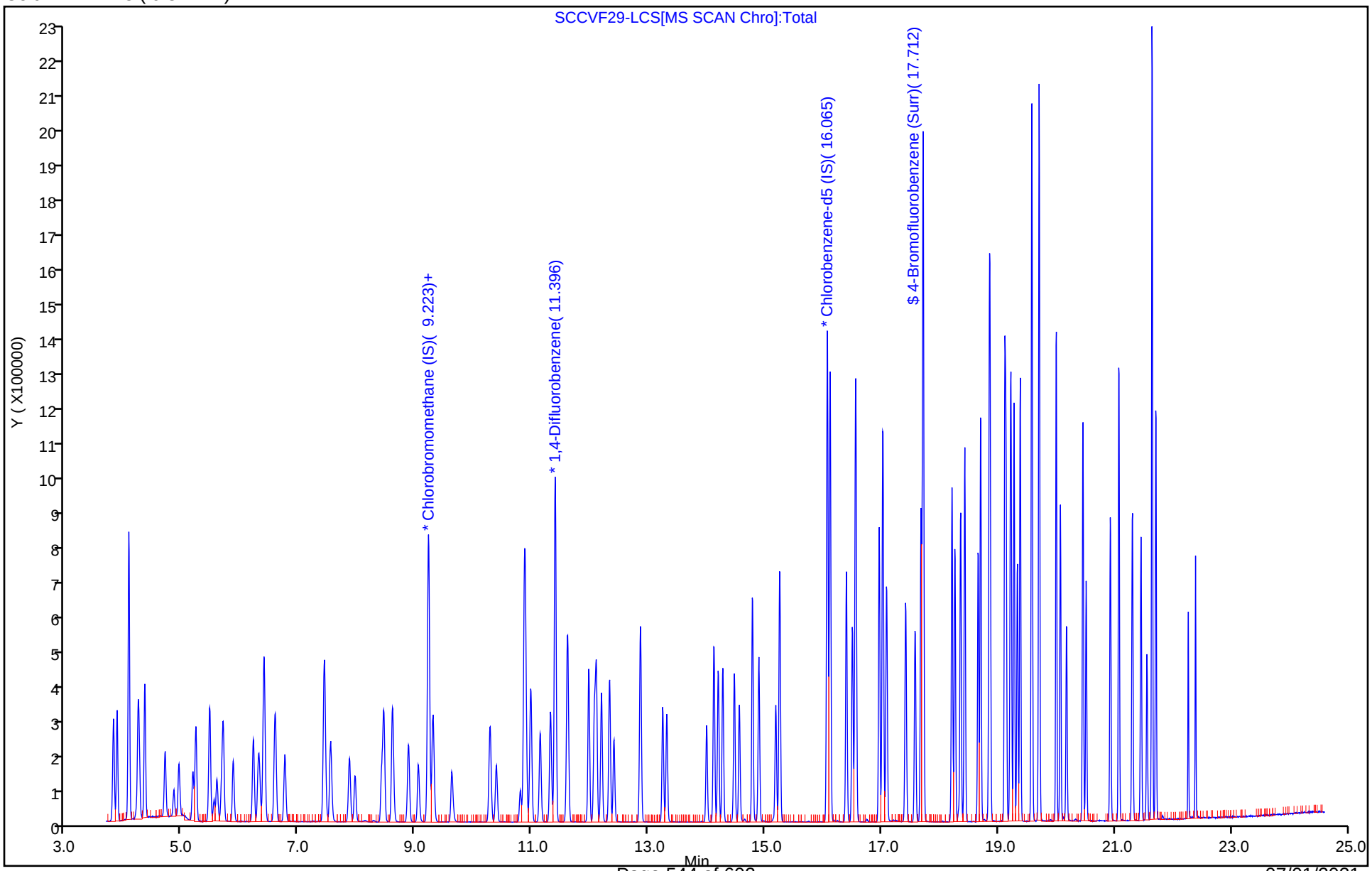
Report Date: 30-Jun-2021 11:22:42 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Environment Testing America

Data File: \\chromfs\Knoxville\ChromData\MS\20210628-19746.b\SCCVF29-LCS.d

Injection Date:	29-Jun-2021 08:12:30	Instrument ID:	MS	Operator ID:	HMT
Lims ID:	LCS			Worklist Smp#:	1002
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MS_TO15A	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Eurofins Environment Testing America
Recovery Report

Data File:	\\chromfs\Knoxville\ChromData\MS\20210628-19746.b\SCCVF29-LCS.d				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	29-Jun-2021 08:12:30	ALS Bottle#:	1	Worklist Smp#:	1002
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	140-0019746-002				
Misc. Info.:	S145 100ML				
Operator ID:	HMT	Instrument ID:	MS		
Method:	\\chromfs\Knoxville\ChromData\MS\20210628-19746.b\MS_TO15A.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	30-Jun-2021 11:22:40	Calib Date:	09-Jun-2021 23:44:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Knoxville\ChromData\MS\20210609-19525.b\SF09IC07.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	CTX1612				

First Level Reviewer: khachitpongpanits Date: 30-Jun-2021 11:22:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.64	4.77	102.71

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-51316/1002

Matrix: Air Lab File ID: RCCVF30-LCS.d

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 06/30/2021 08:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51316 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	2.29		0.080	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.49		0.080	
79-00-5	1,1,2-Trichloroethane	133.41	2.41		0.080	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	2.38		0.080	
75-34-3	1,1-Dichloroethane	98.96	2.38		0.080	
75-35-4	1,1-Dichloroethene	96.94	2.16		0.040	
120-82-1	1,2,4-Trichlorobenzene	181.45	1.94		0.080	
95-63-6	1,2,4-Trimethylbenzene	120.20	2.63		0.080	
106-93-4	1,2-Dibromoethane	187.87	2.31		0.080	
95-50-1	1,2-Dichlorobenzene	147.00	2.49		0.080	
107-06-2	1,2-Dichloroethane	98.96	2.46		0.080	
78-87-5	1,2-Dichloropropane	112.99	2.43		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.56		0.080	
108-67-8	1,3,5-Trimethylbenzene	120.20	2.41		0.080	
541-73-1	1,3-Dichlorobenzene	147.00	2.43		0.080	
106-46-7	1,4-Dichlorobenzene	147.00	2.41		0.080	
123-91-1	1,4-Dioxane	88.11	2.29		0.20	
540-84-1	2,2,4-Trimethylpentane	114.23	2.26		0.20	
78-93-3	2-Butanone	72.11	2.05		0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.32		0.20	
71-43-2	Benzene	78.11	2.31		0.080	
100-44-7	Benzyl chloride	126.58	2.74		0.16	
75-27-4	Bromodichloromethane	163.83	2.55		0.080	
75-25-2	Bromoform	252.75	2.68		0.080	
74-83-9	Bromomethane	94.94	2.23		0.080	
56-23-5	Carbon tetrachloride	153.81	2.81		0.032	
108-90-7	Chlorobenzene	112.56	2.36		0.080	
75-00-3	Chloroethane	64.52	1.94		0.080	
67-66-3	Chloroform	119.38	2.41		0.080	
74-87-3	Chloromethane	50.49	1.83		0.20	
156-59-2	cis-1,2-Dichloroethene	96.94	2.13		0.040	
10061-01-5	cis-1,3-Dichloropropene	110.97	2.34		0.080	
110-82-7	Cyclohexane	84.16	2.17		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-51316/1002

Matrix: Air Lab File ID: RCCVF30-LCS.d

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 06/30/2021 08:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51316 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.28	2.55		0.080	
75-71-8	Dichlorodifluoromethane	120.91	2.48		0.080	
64-17-5	Ethanol	46.07	9.82		2.0	
100-41-4	Ethylbenzene	106.17	2.29		0.080	
87-68-3	Hexachlorobutadiene	260.76	2.27		0.080	
110-54-3	Hexane	86.17	2.25		0.20	
1634-04-4	Methyl tert-butyl ether	88.15	2.22		0.16	
75-09-2	Methylene Chloride	84.93	2.36		0.40	
179601-23-1	m-Xylene & p-Xylene	106.17	4.76		0.080	
91-20-3	Naphthalene	128.17	2.26		0.20	
95-47-6	o-Xylene	106.17	2.42		0.080	
100-42-5	Styrene	104.15	2.52		0.080	
75-65-0	t-Butyl alcohol	74.12	2.44		0.32	
127-18-4	Tetrachloroethene	165.83	2.21		0.080	
108-88-3	Toluene	92.14	2.20		0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	2.14		0.080	
10061-02-6	trans-1,3-Dichloropropene	110.97	2.41		0.080	
79-01-6	Trichloroethene	131.39	2.10		0.036	
75-69-4	Trichlorofluoromethane	137.37	2.73		0.080	
75-01-4	Vinyl chloride	62.50	2.10		0.040	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	112		60-140

Eurofins Environment Testing America
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RCCVF30-LCS.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 30-Jun-2021 08:50:30 ALS Bottle#: 1 Worklist Smp#: 1002
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019757-002
Misc. Info.: P140 100ML
Operator ID: HMT Instrument ID: MR

Method: \\chromfs\Knoxville\ChromData\MR\20210629-19757.b\MR_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 01-Jul-2021 14:02:22 Calib Date: 19-Jun-2021 18:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: khachitpongpanits Date: 01-Jul-2021 14:02:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.786	8.786	0.000	95	284908	4.80	4.80	
* 2 1,4-Difluorobenzene	114	11.003	11.003	0.000	96	1350914	4.80	4.80	
* 3 Chlorobenzene-d5 (IS)	117	15.824	15.824	0.000	89	1228118	4.80	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.474	17.474	0.000	89	994444	4.64	5.18	
6 Chlorodifluoromethane	51	3.545	3.545	0.000	97	340391	2.00	2.49	
7 Propene	41	3.556	3.556	0.000	99	159956	2.00	2.13	
8 Dichlorodifluoromethane	85	3.604	3.604	0.000	100	516375	2.00	2.48	
9 Chloromethane	52	3.788	3.788	0.000	55	38539	2.00	1.83	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.793	3.793	0.000	90	327815	2.00	2.56	
11 Acetaldehyde	44	3.944	3.944	0.000	94	243749	10.0	8.59	
12 Vinyl chloride	62	3.960	3.960	0.000	99	131490	2.00	2.10	
13 Butane	43	4.047	4.047	0.000	79	194625	2.00	1.94	
14 Butadiene	54	4.052	4.052	0.000	74	102279	2.00	2.03	
15 Bromomethane	94	4.376	4.376	0.000	96	127412	2.00	2.23	
16 Chloroethane	64	4.516	4.516	0.000	77	49726	2.00	1.94	
17 Ethanol	31	4.602	4.602	0.000	95	307325	10.0	9.82	
18 Vinyl bromide	106	4.823	4.823	0.000	96	141491	2.00	2.20	
19 2-Methylbutane	43	4.872	4.872	0.000	89	181911	2.00	1.78	
20 Trichlorofluoromethane	101	5.098	5.098	0.000	99	547127	2.00	2.73	
21 Acrolein	56	5.109	5.109	0.000	94	55062	2.00	2.13	
22 Acetonitrile	40	5.174	5.174	0.000	99	94714	2.00	2.57	
23 Acetone	58	5.217	5.217	0.000	99	273430	6.00	6.58	
24 Isopropyl alcohol	45	5.298	5.298	0.000	97	860892	6.00	7.41	
25 Pentane	72	5.325	5.325	0.000	95	23542	2.00	2.30	
26 Ethyl ether	31	5.486	5.486	0.000	93	196677	2.00	2.10	
27 1,1-Dichloroethene	96	5.821	5.821	0.000	93	162675	2.00	2.16	
28 2-Methyl-2-propanol	59	5.907	5.907	0.000	97	341836	2.00	2.44	
29 Acrylonitrile	53	5.934	5.934	0.000	97	145055	2.00	2.41	
30 112TCTFE	101	5.999	5.999	0.000	94	392857	2.00	2.38	
31 Methylene Chloride	84	6.182	6.182	0.000	94	157222	2.00	2.36	
32 3-Chloro-1-propene	39	6.193	6.193	0.000	96	175729	2.00	2.45	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 Carbon disulfide	76	6.344	6.344	0.000	99	513858	2.00	2.50	
34 trans-1,2-Dichloroethene	96	7.007	7.007	0.000	93	159234	2.00	2.14	
35 2-Methylpentane	43	7.023	7.023	0.000	95	455059	2.00	2.20	
36 Methyl tert-butyl ether	73	7.126	7.126	0.000	96	446852	2.00	2.22	
37 1,1-Dichloroethane	63	7.444	7.444	0.000	99	351573	2.00	2.38	
38 Vinyl acetate	43	7.546	7.546	0.000	100	448115	2.00	2.03	
39 2-Butanone (MEK)	72	7.999	7.999	0.000	96	81251	2.00	2.05	
40 Hexane	56	8.021	8.021	0.000	88	145728	2.00	2.25	
41 Isopropyl ether	45	8.177	8.177	0.000	95	662355	2.00	2.21	
42 cis-1,2-Dichloroethene	96	8.452	8.452	0.000	98	171747	2.00	2.13	
43 Ethyl acetate	43	8.625	8.625	0.000	98	459040	2.00	2.27	
44 Chloroform	83	8.797	8.797	0.000	96	393155	2.00	2.41	
45 Tert-butyl ethyl ether	59	8.867	8.867	0.000	98	572728	2.00	2.29	
46 Tetrahydrofuran	42	9.191	9.191	0.000	93	221120	2.00	2.16	
47 1,1,1-Trichloroethane	97	9.838	9.838	0.000	95	370711	2.00	2.29	
48 1,2-Dichloroethane	62	9.957	9.957	0.000	96	287060	2.00	2.46	
49 n-Butanol	31	10.383	10.383	0.000	92	77884	2.00	2.17	
50 Cyclohexane	69	10.447	10.447	0.000	93	78354	2.00	2.17	
51 Benzene	78	10.453	10.453	0.000	97	528750	2.00	2.31	
52 Carbon tetrachloride	117	10.469	10.469	0.000	94	417983	2.00	2.81	
53 2,3-Dimethylpentane	71	10.561	10.561	0.000	91	118024	2.00	2.28	
54 Thiophene	84	10.728	10.728	0.000	97	297985	2.00	2.35	
55 Isooctane	57	11.213	11.213	0.000	96	927810	2.00	2.26	
56 n-Heptane	71	11.591	11.591	0.000	94	175873	2.00	2.23	
57 1,2-Dichloropropane	63	11.688	11.688	0.000	90	239422	2.00	2.43	
58 Trichloroethene	130	11.725	11.725	0.000	91	217926	2.00	2.10	
59 Dibromomethane	93	11.812	11.812	0.000	92	240569	2.00	2.47	
60 Dichlorobromomethane	83	11.963	11.963	0.000	97	388827	2.00	2.55	
61 1,4-Dioxane	88	11.963	11.963	0.000	95	79885	2.00	2.29	
62 Methyl methacrylate	41	12.049	12.049	0.000	89	283867	2.00	2.28	
63 Methylcyclohexane	83	12.507	12.507	0.000	91	302062	2.00	2.15	
64 4-Methyl-2-pentanone (MIBK)	43	12.922	12.922	0.000	98	519484	2.00	2.32	
65 cis-1,3-Dichloropropene	75	12.993	12.993	0.000	99	304418	2.00	2.34	
66 trans-1,3-Dichloropropene	75	13.704	13.704	0.000	96	259878	2.00	2.41	
67 Toluene	91	13.828	13.828	0.000	92	622689	2.00	2.20	
68 1,1,2-Trichloroethane	83	13.909	13.909	0.000	94	209674	2.00	2.41	
69 2-Hexanone	58	14.287	14.287	0.000	91	211873	2.00	2.27	
70 n-Octane	85	14.519	14.519	0.000	96	186191	2.00	2.29	
71 Chlorodibromomethane	129	14.621	14.621	0.000	96	368915	2.00	2.55	
72 Ethylene Dibromide	107	14.918	14.918	0.000	97	341633	2.00	2.31	
73 Tetrachloroethene	129	14.988	14.988	0.000	93	231350	2.00	2.21	
74 Chlorobenzene	112	15.872	15.872	0.000	91	494602	2.00	2.36	
75 2,3-Dimethylheptane	43	15.883	15.883	0.000	94	769931	2.00	2.38	
76 Ethylbenzene	91	16.163	16.163	0.000	99	831837	2.00	2.29	
77 m-Xylene & p-Xylene	91	16.320	16.320	0.000	98	1363984	4.00	4.76	
78 n-Nonane	57	16.735	16.735	0.000	95	450522	2.00	2.41	
79 Bromoform	173	16.783	16.783	0.000	95	402935	2.00	2.68	
80 Styrene	104	16.789	16.789	0.000	99	475271	2.00	2.52	
81 o-Xylene	91	16.848	16.848	0.000	99	726504	2.00	2.42	
82 1,1,2,2-Tetrachloroethane	83	17.177	17.177	0.000	98	527455	2.00	2.49	
83 1,2,3-Trichloropropane	110	17.339	17.339	0.000	95	128276	2.00	2.40	
84 Isopropylbenzene	105	17.436	17.436	0.000	95	943499	2.00	2.41	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
85 N-Propylbenzene	120	17.975	17.975	0.000	99	261571	2.00	2.38	
86 2-Chlorotoluene	126	18.024	18.024	0.000	98	242740	2.00	2.41	
88 4-Ethyltoluene	105	18.121	18.121	0.000	98	954335	2.00	2.35	
87 1,3,5-Trimethylbenzene	120	18.196	18.196	0.000	91	395532	2.00	2.41	
89 Alpha Methyl Styrene	118	18.423	18.423	0.000	88	382161	2.00	2.39	
90 n-Decane	57	18.471	18.471	0.000	88	648461	2.00	2.60	
91 tert-Butylbenzene	119	18.617	18.617	0.000	90	907331	2.00	2.55	
92 1,2,4-Trimethylbenzene	105	18.628	18.628	0.000	97	910091	2.00	2.63	
93 sec-Butylbenzene	105	18.881	18.881	0.000	99	1274782	2.00	2.56	
94 1,3-Dichlorobenzene	146	18.903	18.903	0.000	97	556358	2.00	2.43	
95 Benzyl chloride	91	18.978	18.978	0.000	97	663628	2.00	2.74	
96 1,4-Dichlorobenzene	146	18.989	18.989	0.000	95	538919	2.00	2.41	
97 4-Isopropyltoluene	119	19.043	19.043	0.000	97	1051919	2.00	2.56	
98 1,2,3-Trimethylbenzene	105	19.097	19.097	0.000	99	925099	2.00	2.59	
99 Butylcyclohexane	83	19.151	19.151	0.000	92	767538	2.00	2.72	
100 2,3-Dihydroindene	117	19.345	19.345	0.000	93	860622	2.00	2.63	
101 1,2-Dichlorobenzene	146	19.350	19.350	0.000	96	568050	2.00	2.49	
103 n-Butylbenzene	91	19.474	19.474	0.000	94	1156694	2.00	2.82	
102 Indene	116	19.474	19.474	0.000	76	724564	2.00	2.71	
104 Undecane	57	19.771	19.771	0.000	95	766940	2.00	2.64	
105 1,2-Dibromo-3-Chloropropane	157	19.949	19.949	0.000	94	285100	2.00	2.51	
106 1,2,4,5-Tetramethylbenzene	119	20.224	20.224	0.000	96	1002647	2.00	2.48	
107 Dodecane	57	20.833	20.833	0.000	92	750563	2.00	2.50	
108 1,2,4-Trichlorobenzene	180	21.049	21.049	0.000	94	422079	2.00	1.94	
109 Naphthalene	128	21.194	21.194	0.000	99	938354	2.00	2.26	
110 Hexachlorobutadiene	225	21.405	21.405	0.000	95	556129	2.00	2.27	
111 1,2,3-Trichlorobenzene	180	21.480	21.480	0.000	94	463925	2.00	2.14	
112 2-Methylnaphthalene	142	22.100	22.100	0.000	99	461245	2.00	3.92	
113 1-Methylnaphthalene	142	22.224	22.224	0.000	99	574256	2.00	4.48	
A 116 C8 Range	1	14.516	(14.470-14.578)		0	2077584	2.00	2.32	
S 117 Xylenes, Total	100				0		6.00	7.18	
S 118 1,2-Dichloroethene, Total	1				0		4.00	4.27	

QC Flag Legend

Processing Flags

Reagents:

40CV101P_00140	Amount Added: 100.00	Units: ml	
40MXISSUR_00001	Amount Added: 40.00	Units: mL	Run Reagent

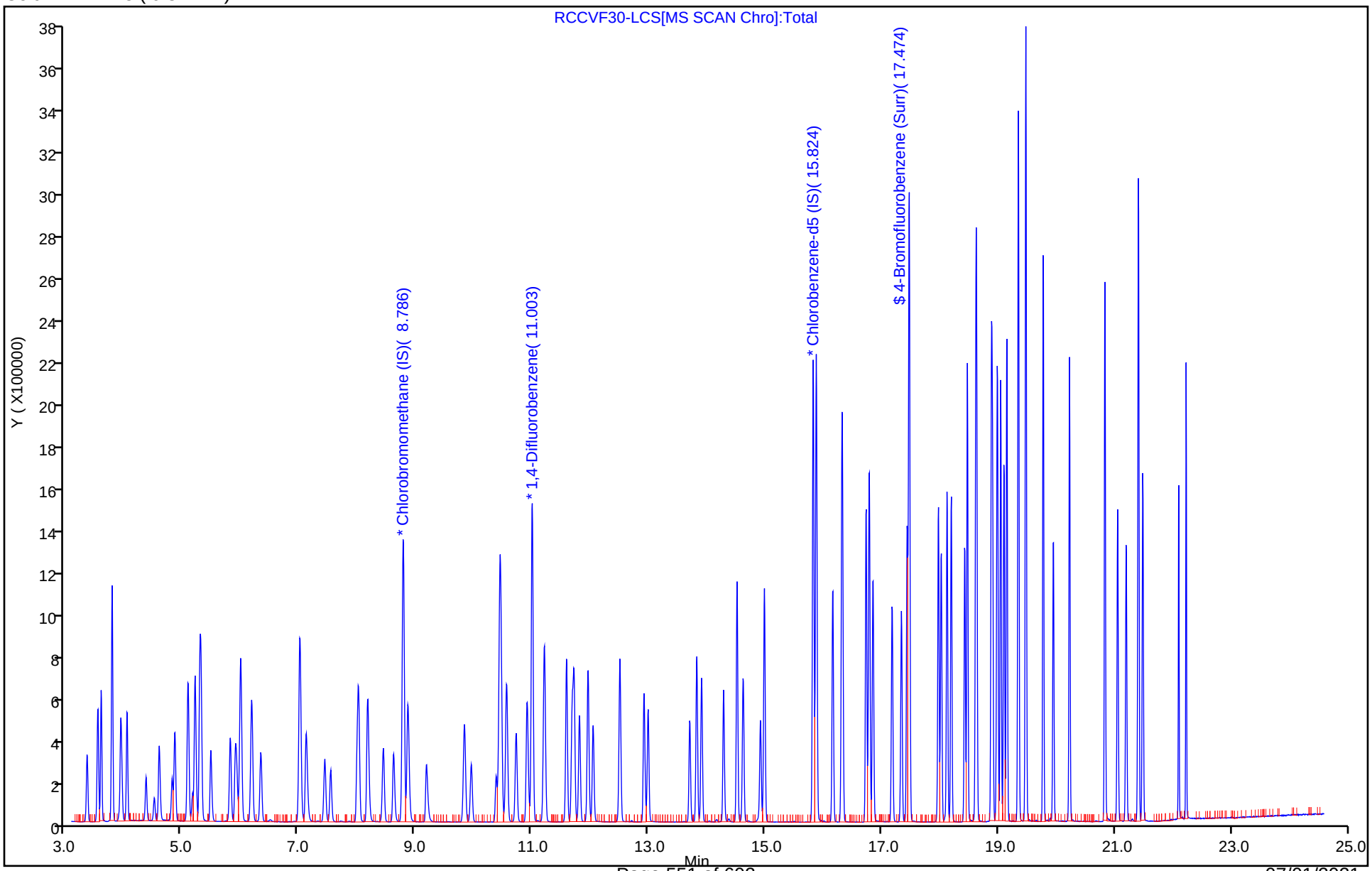
Report Date: 01-Jul-2021 14:02:24 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Environment Testing America

Data File: \\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RCCVF30-LCS.d

Injection Date:	30-Jun-2021 08:50:30	Instrument ID:	MR	Operator ID:	HMT
Lims ID:	LCS			Worklist Smp#:	1002
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MR_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



Eurofins Environment Testing America
Recovery Report

Data File:	\\chromfs\Knoxville\ChromData\MR\20210629-19757.b\RCCVF30-LCS.d				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	30-Jun-2021 08:50:30	ALS Bottle#:	1	Worklist Smp#:	1002
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	140-0019757-002				
Misc. Info.:	P140 100ML				
Operator ID:	HMT	Instrument ID:	MR		
Method:	\\chromfs\Knoxville\ChromData\MR\20210629-19757.b\MR_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	01-Jul-2021 14:02:22	Calib Date:	19-Jun-2021 18:49:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Knoxville\ChromData\MR\20210619-19646.b\RF19IC07.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	CTX1621				

First Level Reviewer: khachitpongpanits Date: 01-Jul-2021 14:02:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.64	5.18	111.65

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Instrument ID: MS Start Date: 06/09/2021 11:10

Analysis Batch Number: 50646 End Date: 06/10/2021 03:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-50646/1		06/09/2021 11:10	1	SBFBF09B.D	RTX-5 0.32(mm)
IC 140-50646/3		06/09/2021 14:14	1	SF09IC10.D	RTX-5 0.32(mm)
IC 140-50646/5		06/09/2021 15:49	1	SF09C09.D	RTX-5 0.32(mm)
IC 140-50646/7		06/09/2021 17:23	1	SF09IC08.D	RTX-5 0.32(mm)
IC 140-50646/9		06/09/2021 18:55	1	SF09IC01.D	RTX-5 0.32(mm)
IC 140-50646/10		06/09/2021 19:40	1	SF09IC02.D	RTX-5 0.32(mm)
140-22501-A-1 MDLV		06/09/2021 19:40	1		RTX-5 0.32(mm)
ZZZZZ		06/09/2021 19:40	1		RTX-5 0.32(mm)
IC 140-50646/11		06/09/2021 20:27	1	SF09IC03.D	RTX-5 0.32(mm)
140-22501-A-2 MDLV		06/09/2021 20:27	1		RTX-5 0.32(mm)
ZZZZZ		06/09/2021 20:27	1		RTX-5 0.32(mm)
IC 140-50646/12		06/09/2021 21:15	1	SF09IC04.D	RTX-5 0.32(mm)
140-22501-A-3 MDLV		06/09/2021 21:15	1		RTX-5 0.32(mm)
ZZZZZ		06/09/2021 21:15	1		RTX-5 0.32(mm)
IC 140-50646/13		06/09/2021 22:04	1	SF09IC05.D	RTX-5 0.32(mm)
140-22501-A-4 MDLV		06/09/2021 22:04	1		RTX-5 0.32(mm)
ZZZZZ		06/09/2021 22:04	1		RTX-5 0.32(mm)
IC 140-50646/14		06/09/2021 22:54	1	SF09IC06.D	RTX-5 0.32(mm)
ICIS 140-50646/15		06/09/2021 23:44	1	SF09IC07.D	RTX-5 0.32(mm)
ICV 140-50646/17		06/10/2021 01:28	1	SF09ICV.D	RTX-5 0.32(mm)
ZZZZZ		06/10/2021 03:52	1		RTX-5 0.32(mm)

Eurofins/TestAmerica Knoxville GC/MS Air - Initial Calibration Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 22 & KNOX-MS-0023, Rev 5

Analysis Date:	6/9/21	Instrument:	MS	Chrom WL #:	19525	TALS Batch & Event #	TO14/15: 3095 / 50646	DODS: 3098 / 50649
							DOD: 3096 / 50647	OHIO: 3097 / 50648

Chrom/Worklist Review	1st	Comments	2nd
1. Re-read each Limit Group [method editor-limit groups]	✓		na
2. Verify LODV in Chrom [method editor -> edit -> MDL]	✓		na
3. Are the reagents and init/final volumes correct and first level "unlock/clear"? (Verify reagents & amt. injected at each level) [WL Sample Reagents Tab vs. Entech]	✓		
4. Files linked properly to calibration levels? [Sample List- Lab ID vs. Info]	✓		
5. Did BFB meet tune criteria? [F8]	✓		
6. Were all standards injected within 24 hr of BFB? [F7]	✓		
7. High point checked for saturation and point removed if so? [Chrom]	✓		
8. If manual integrations performed, are they properly performed, correct, baseline clearly identified, and correct reason given? [Chrom]	✓		
9. RT for each IS ±20 sec avg. RT? [F6 IstdRec]	✓		
10. Area for each IS ± 40% avg. area? [F6 IstdRec]	✓		
11. Each analyte ± 0.06 RRT of avg. RRT? [F6 - RRT]	✓		
12. Elution order checked on isomeric pairs? [Chrom]			
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane	✓		
• 2-methyl butane / acrolein	✓		
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane	✓		
• vinyl acetate / hexane	✓		
• cis- and trans- isomers	✓		
• ethyl benzene / m/p-xylene / o-xylene	✓		
• n-propylbenzene/4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene/ sec-butylbenzene/1,2,3-trimethylbenzene	MLW		
• tert-butylbenzene/4-isopropyltoluene	✓		
• 1,3- , 1,4- , and 1,2-dichlorobenzene	✓		
• 1,2-dimethyl-4-ethylbenzene/1,2,4,5-, 1,2,3,5-, and 1,2,3,4-tetramethylbenzenes	✓		
• 1,2,4- and 1,2,3-trichlorobenzenes	✓		
• 2-, and 1-methylnaphthalene	✓		
13. "Range" analytes & internal standard RIC ID'd correctly, inspected for interferences & proper integration?	✓		

MLG Review	TO	DOD	OH	Comments	TO-	DOD	OH
14. Is %RSD for all target analytes ≤ 30%? (with up to 2 compounds with RSD ≤ 40%) 1& 2 methylnaphthalene ≤ 50% acetaldehyde [F6 Σ]	✓	✓	✓				
15. Were at least 5 levels of each compound analyzed? [F6]	✓	✓	✓				
16. Is low level std at or <RL and are the remaining points consec.? [F6]	✓	✓	✓				
17. At least 6 consec. points used for quad curves; at least 5 consec. points for linear curves? (Note: Ohio does not allow quad) [F6]	✓	✓	✓				
18. If curves were used, is correlation coefficient ≥0.990? [F6]	✓	✓	✓				
19. Is the intercept less than the RL for each curve? [F6]	✓	✓	✓				
20. For quadratic: is a tangent's slope to the curve entirely positive or negative and continuous. [Cntrl-C, details]	✓	✓	na				na
21. Is low point RSE ≤ 50 %? [F6]	✓	✓	✓				
22. Is the second source analysis within limits? [F8 - icv]	✓	✓	✓				

Analyst/Date: 6/10/21 **2nd Level Reviewer/Date:**

TALS Review	TO	DOD	OH	Comments	TO	DOD	OH
23. Upload ICAL	✓				na	na	na
24. Graphics uploaded? [paperclip]	✓	✓	✓				
25. All points are in the most recent active calibration event? [Calibration Events –'Fix ICAL linkage' if needed]	✓	✓	✓				
26. Runs linked to BFB? [QC Links]	✓	✓	✓				
27. Run Checklist and acknowledge findings [F8]	✓	✓	✓				
28. If criteria not met, was a NCM generated?	✓	✓					
29. After review in TALS, approve the method in TALS.	na	na	na				
30. After verifying TALS is correct, lock method in Chrom <resolve any error issues>	na	na	na				
31. Checklist & Entech report scanned, attached & assigned properly?	na	na	na				

Analyst/date: 6/10/21 **2nd Level Reviewer/date:**

Comments: **Comments:**

Eurofins/TestAmerica Knoxville GC/MS Air - Initial Calibration Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 20 & KNOX-MS-0023, Rev 4

Analysis Date:	6/9/21	Instrument:	MS	Chrom WL #:	19525	TALS Batch & Event #	TO14/15: 50646/3095 DOD: 50647/3096	DOD5: 50649/3098 OHIO: 50648/3097

Chrom/Worklist Review	1st	Comments	2nd
1. Re-read each Limit Group [method editor-limit groups]			na
2. Verify LODV in Chrom [method editor -> edit -> MDL]			na
3. Are the reagents and init/final volumes correct and first level "unlock/clear"? (Verify reagents & amt. injected at each level) [WL Sample Reagents Tab vs. Entech]			Y
4. Files linked properly to calibration levels? [Sample List- Lab ID vs. Info]			Y
5. Did BFB meet tune criteria? [F8]			Y
6. Were all standards injected within 24 hr of BFB? [F7]			Y
7. High point checked for saturation and point removed if so? [Chrom]			Y
8. If manual integrations performed, are they properly performed, correct, baseline clearly identified, and correct reason given? [Chrom]			NA
9. RT for each IS ±20 sec avg. RT? [F6 IstdRec]			Y
10. Area for each IS ± 40% avg. area? [F6 IstdRec]			Y
11. Each analyte ± 0.06 RRT of avg. RRT? [F6 - RRT]			Y
12. Elution order checked on isomeric pairs? [Chrom]			
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane			Y
• 2-methyl butane / acrolein			Y
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane			Y
• vinyl acetate / hexane			Y
• cis- and trans- isomers			Y
• ethyl benzene / m/p-xylene / o-xylene			Y
• n-propylbenzene/4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene/ sec-butylbenzene/1,2,3-trimethylbenzene			Y
• tert-butylbenzene/4-isopropyltoluene			Y
• 1,3- , 1,4- , and 1,2-dichlorobenzene			Y
• 1,2-dimethyl-4-ethylbenzene/1,2,4,5-, 1,2,3,5-, and 1,2,3,4-tetramethylbenzenes			NA
• 1,2,4- and 1,2,3-trichlorobenzenes			Y
• 2-, and 1-methylnaphthalene			Y
13. "Range" analytes & internal standard RIC ID'd correctly, inspected for interferences & proper integration?			Y

MLG Review	TO	DOD	OH	Comments	TO-	DOD	OH
14. Is %RSD for all target analytes ≤ 30%? (with up to 2 compounds with RSD ≤ 40%) 1& 2 methylnaphthalene ≤ 50% [F6 ∑]					Y	Y	Y
15. Were at least 5 levels of each compound analyzed? [F6]					Y	Y	Y
16. Is low level std at or <RL and are the remaining points consec.? [F6]					Y	Y	Y
17. At least 6 consec. points used for quad curves; at least 5 consec. points for linear curves? (Note: Ohio does not allow quad) [F6]					Y	Y	Y
18. If curves were used, is correlation coefficient ≥0.990? [F6]					Y	Y	Y
19. Is the intercept less than the RL for each curve? [F6]					Y	Y	Y
20. For quadratic: is a tangent's slope to the curve entirely positive or negative and continuous. [Cntrl-C, details]			na		NA	NA	na
21. Is low point RSE ≤ 50 %? [F6]					Y	Y	Y
22. Is the second source analysis within limits? [F8 - icv]					Y	Y	Y

Analyst/Date:	2nd Level Reviewer/Date: LL 6/10/21

TALS Review	TO	DOD	OH	Comments	TO	DOD	OH
23. Upload ICAL					na	na	na
24. Graphics uploaded? [paperclip]					Y	Y	Y
25. All points are in the most recent active calibration event? [Calibration Events –'Fix ICAL linkage' if needed]					Y	Y	Y
26. Runs linked to BFB? [QC Links]					Y	Y	Y
27. Run Checklist and acknowledge findings [F8]					Y	Y	Y
28. If criteria not met, was a NCM generated?					NA	NA	NA
29. After review in TALS, approve the method in TALS.	na	na	na		Y	Y	Y
30. After verifying TALS is correct, lock method in Chrom <resolve any error issues>	na	na	na		Y	Y	Y
31. Checklist & Entech report scanned, attached & assigned properly?	na	na	na		Y	Y	Y

Analyst/date:	2nd Level Reviewer/date: LL 6/10/21
Comments:	Comments:

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Instrument ID: MR Start Date: 06/19/2021 07:45

Analysis Batch Number: 51007 End Date: 06/19/2021 22:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-51007/1		06/19/2021 07:45	1	RBFBF19.D	RTX-5 0.32(mm)
IC 140-51007/4		06/19/2021 09:57	1	RF19IC10.D	RTX-5 0.32(mm)
IC 140-51007/6		06/19/2021 11:26	1	RF19IC09.D	RTX-5 0.32(mm)
IC 140-51007/8		06/19/2021 12:55	1	RF19IC08.D	RTX-5 0.32(mm)
IC 140-51007/10		06/19/2021 14:22	1	RF19IC01.D	RTX-5 0.32(mm)
IC 140-51007/11		06/19/2021 15:07	1	RF19IC02.D	RTX-5 0.32(mm)
140-22500-A-5 MDLV		06/19/2021 15:07	1		RTX-5 0.32(mm)
IC 140-51007/12		06/19/2021 15:51	1	RF19IC03.D	RTX-5 0.32(mm)
140-22500-A-6 MDLV		06/19/2021 15:51	1		RTX-5 0.32(mm)
IC 140-51007/13		06/19/2021 16:36	1	RF19IC04.D	RTX-5 0.32(mm)
140-22500-A-7 MDLV		06/19/2021 16:36	1		RTX-5 0.32(mm)
IC 140-51007/14		06/19/2021 17:20	1	RF19IC05.D	RTX-5 0.32(mm)
140-22500-A-8 MDLV		06/19/2021 17:20	1		RTX-5 0.32(mm)
IC 140-51007/15		06/19/2021 18:05	1	RF19IC06.D	RTX-5 0.32(mm)
ICIS 140-51007/16		06/19/2021 18:49	1	RF19IC07.D	RTX-5 0.32(mm)
ICV 140-51007/19		06/19/2021 20:58	1	RF19LCS.D	RTX-5 0.32(mm)
ZZZZZ		06/19/2021 22:30	1		RTX-5 0.32(mm)

Eurofins/TestAmerica Knoxville GC/MS Air - Initial Calibration Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 22 & KNOX-MS-0023, Rev 5

Analysis Date:	6/19/21	Instrument:	MR	Chrom WL #:	19646	TALS Batch & Event #	TO14/15: 3105 / 51007	DOD: 3108 / 51010
							DOD: 3106 / 51008	OHIO: 3107 / 51009

Chrom/Worklist Review	1st	Comments	2nd
1. Re-read each Limit Group [method editor-limit groups]	✓		na
2. Verify LODV in Chrom [method editor -> edit -> MDL]	✓		na
3. Are the reagents and init/final volumes correct and first level "unlock/clear"? (Verify reagents & amt. injected at each level) [WL Sample Reagents Tab vs. Entech]	✓		
4. Files linked properly to calibration levels? [Sample List- Lab ID vs. Info]	✓		
5. Did BFB meet tune criteria? [F8]	✓		
6. Were all standards injected within 24 hr of BFB? [F7]	✓		
7. High point checked for saturation and point removed if so? [Chrom]	✓		
8. If manual integrations performed, are they properly performed, correct, baseline clearly identified, and correct reason given? [Chrom]	✓		
9. RT for each IS ±20 sec avg. RT? [F6 IstdRec]	✓		
10. Area for each IS ± 40% avg. area? [F6 IstdRec]	✓		
11. Each analyte ± 0.06 RRT of avg. RRT? [F6 - RRT]	✓		
12. Elution order checked on isomeric pairs? [Chrom]			
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane	✓		
• 2-methyl butane / acrolein	✓		
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane	✓		
• vinyl acetate / hexane	✓		
• cis- and trans- isomers	✓		
• ethyl benzene / m/p-xylene / o-xylene	✓		
• n-propylbenzene/4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene/ sec-butylbenzene/1,2,3-trimethylbenzene	✓		
• tert-butylbenzene/4-isopropyltoluene	✓		
• 1,3- , 1,4- , and 1,2-dichlorobenzene	✓		
• 1,2-dimethyl-4-ethylbenzene/1,2,4,5-, 1,2,3,5-, and 1,2,3,4-tetramethylbenzenes	IN ICV		
• 1,2,4- and 1,2,3-trichlorobenzenes	✓		
• 2-, and 1-methylnaphthalene	✓		
13. "Range" analytes & internal standard RIC ID'd correctly, inspected for interferences & proper integration?	✓		

MLG Review	TO	DOD	OH	Comments	TO-	DOD	OH
14. Is %RSD for all target analytes ≤ 30%? (with up to 2 compounds with RSD ≤ 40%) 1& 2 methylnaphthalene ≤ 50% Acetone - Ret to Unlea. [F6 Σ]	✓	✓	✓				
15. Were at least 5 levels of each compound analyzed? [F6]	✓	✓	✓				
16. Is low level std at or <RL and are the remaining points consec.? [F6]	✓	✓	✓				
17. At least 6 consec. points used for quad curves; at least 5 consec. points for linear curves? (Note: Ohio does not allow quad) [F6]	✓	✓	✓				
18. If curves were used, is correlation coefficient ≥0.990? [F6]	✓	✓	✓				
19. Is the intercept less than the RL for each curve? [F6]	✓	✓	✓				
20. For quadratic: is a tangent's slope to the curve entirely positive or negative and continuous. [Cntrl-C, details]	✓	✓	na				na
21. Is low point RSE ≤ 50 %? [F6]	✓	✓	✓				
22. Is the second source analysis within limits? [F8 - icv]	✓	✓	✓				

Analyst/Date: 6/21/21 **2nd Level Reviewer/Date:**

TALS Review	TO	DOD	OH	Comments	TO	DOD	OH
23. Upload ICAL	✓				na	na	na
24. Graphics uploaded? [paperclip]	✓	✓	✓				
25. All points are in the most recent active calibration event? [Calibration Events – 'Fix ICAL linkage' if needed]	✓	✓	✓				
26. Runs linked to BFB? [QC Links]	✓	✓	✓				
27. Run Checklist and acknowledge findings [F8]	✓	✓	✓				
28. If criteria not met, was a NCM generated?	✓	✓	✓				
29. After review in TALS, approve the method in TALS.	na	na	na				
30. After verifying TALS is correct, lock method in Chrom <resolve any error issues>	na	na	na				
31. Checklist & Entech report scanned, attached & assigned properly?	na	na	na				

Analyst/date: 6/21/21 **2nd Level Reviewer/date:**

Comments: **Comments:**

Eurofins/TestAmerica Knoxville GC/MS Air - Initial Calibration Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 20 & KNOX-MS-0023, Rev 4

Analysis Date:	6/19/21	Instrument:	MR	Chrom WL #:	19646	TALS Batch & Event #	TO14/15: 51007/3105 DOD: 51008/3106	DOD5: 51010/3108 OHIO: 51009/3107

Chrom/Worklist Review	1st	Comments	2nd
1. Re-read each Limit Group [method editor-limit groups]			na
2. Verify LODV in Chrom [method editor -> edit -> MDL]			na
3. Are the reagents and init/final volumes correct and first level "unlock/clear"? (Verify reagents & amt. injected at each level) [WL Sample Reagents Tab vs. Entech]			Y
4. Files linked properly to calibration levels? [Sample List- Lab ID vs. Info]			Y
5. Did BFB meet tune criteria? [F8]			Y
6. Were all standards injected within 24 hr of BFB? [F7]			Y
7. High point checked for saturation and point removed if so? [Chrom]			Y
8. If manual integrations performed, are they properly performed, correct, baseline clearly identified, and correct reason given? [Chrom]			NA
9. RT for each IS ±20 sec avg. RT? [F6 IstdRec]			Y
10. Area for each IS ± 40% avg. area? [F6 IstdRec]			Y
11. Each analyte ± 0.06 RRT of avg. RRT? [F6 - RRT]			Y
12. Elution order checked on isomeric pairs? [Chrom]			
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane			Y
• 2-methyl butane / acrolein			Y
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane			Y
• vinyl acetate / hexane			Y
• cis- and trans- isomers			Y
• ethyl benzene / m/p-xylene / o-xylene			Y
• n-propylbenzene/4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene/ sec-butylbenzene/1,2,3-trimethylbenzene			Y
• tert-butylbenzene/4-isopropyltoluene			Y
• 1,3- , 1,4- , and 1,2-dichlorobenzene			Y
• 1,2-dimethyl-4-ethylbenzene/1,2,4,5-, 1,2,3,5-, and 1,2,3,4-tetramethylbenzenes			NA
• 1,2,4- and 1,2,3-trichlorobenzenes			Y
• 2-, and 1-methylnaphthalene			Y
13. "Range" analytes & internal standard RIC ID'd correctly, inspected for interferences & proper integration?			Y

MLG Review	TO	DOD	OH	Comments	TO-	DOD	OH
14. Is %RSD for all target analytes ≤ 30%? (with up to 2 compounds with RSD ≤ 40%) 1& 2 methylnaphthalene ≤ 50% [F6 ∑]					Y	Y	Y
15. Were at least 5 levels of each compound analyzed? [F6]					Y	Y	Y
16. Is low level std at or <RL and are the remaining points consec.? [F6]					Y	Y	Y
17. At least 6 consec. points used for quad curves; at least 5 consec. points for linear curves? (Note: Ohio does not allow quad) [F6]					Y	Y	Y
18. If curves were used, is correlation coefficient ≥0.990? [F6]					Y	Y	Y
19. Is the intercept less than the RL for each curve? [F6]					Y	Y	Y
20. For quadratic: is a tangent's slope to the curve entirely positive or negative and continuous. [Cntrl-C, details]			na		NA	NA	na
21. Is low point RSE ≤ 50 %? [F6]					Y	Y	Y
22. Is the second source analysis within limits? [F8 - icv]					Y	Y	Y

Analyst/Date:	2nd Level Reviewer/Date: LL 6/23/21

TALS Review	TO	DOD	OH	Comments	TO	DOD	OH
23. Upload ICAL					na	na	na
24. Graphics uploaded? [paperclip]					Y	Y	Y
25. All points are in the most recent active calibration event? [Calibration Events –'Fix ICAL linkage' if needed]					Y	Y	Y
26. Runs linked to BFB? [QC Links]					Y	Y	Y
27. Run Checklist and acknowledge findings [F8]					Y	Y	Y
28. If criteria not met, was a NCM generated?					NA	NA	NA
29. After review in TALS, approve the method in TALS.	na	na	na		Y	Y	Y
30. After verifying TALS is correct, lock method in Chrom <resolve any error issues>	na	na	na		Y	Y	Y
31. Checklist & Entech report scanned, attached & assigned properly?	na	na	na		Y	Y	Y

Analyst/date:	2nd Level Reviewer/date: LL 6/23/21
Comments:	Comments:

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Instrument ID: MR Start Date: 06/28/2021 07:35

Analysis Batch Number: 51274 End Date: 06/29/2021 01:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-51274/1		06/28/2021 07:35	1	RBFBF28.D	RTX-5 0.32(mm)
CCVIS 140-51274/2		06/28/2021 08:03	1	RCCVF28.D	RTX-5 0.32(mm)
LCS 140-51274/1002		06/28/2021 08:03	1	RCCVF28-LCS.d	RTX-5 0.32(mm)
ZZZZZ		06/28/2021 09:42	1		RTX-5 0.32(mm)
MB 140-51274/8		06/28/2021 11:54	1	R500BF28.D	RTX-5 0.32(mm)
ZZZZZ		06/28/2021 12:45	1.47		RTX-5 0.32(mm)
ZZZZZ		06/28/2021 13:27	1.49		RTX-5 0.32(mm)
ZZZZZ		06/28/2021 14:10	1.57		RTX-5 0.32(mm)
ZZZZZ		06/28/2021 14:54	1.43		RTX-5 0.32(mm)
ZZZZZ		06/28/2021 15:37	1.57		RTX-5 0.32(mm)
ZZZZZ		06/28/2021 16:19	2.54		RTX-5 0.32(mm)
ZZZZZ		06/28/2021 17:02	1.57		RTX-5 0.32(mm)
ZZZZZ		06/28/2021 17:51	1		RTX-5 0.32(mm)
ZZZZZ		06/28/2021 18:40	1		RTX-5 0.32(mm)
ZZZZZ		06/28/2021 19:29	1		RTX-5 0.32(mm)
ZZZZZ		06/28/2021 20:17	1		RTX-5 0.32(mm)
ZZZZZ		06/28/2021 21:06	1		RTX-5 0.32(mm)
ZZZZZ		06/28/2021 21:56	1		RTX-5 0.32(mm)
ZZZZZ		06/28/2021 22:46	1.39		RTX-5 0.32(mm)
ZZZZZ		06/28/2021 23:34	1		RTX-5 0.32(mm)
ZZZZZ		06/29/2021 00:25	1		RTX-5 0.32(mm)
140-23523-1	HSVE SHALLOW	06/29/2021 01:51	33.59	RF28P202.D	RTX-5 0.32(mm)

Eurofins/TestAmerica Knoxville GC/MS Air - Batch Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 22 & KNOX-MS-0023, Rev 5

Instrument/Date	MP 6/28/2021		Routine	DOD	OHIO VAP
CCAL Chrom WL #	19739	CCAL Batch #	51274		
ICAL Chrom WL #	19646	ICAL Batch # / Event #	51007 / 3105	/	/

Chrom Review	1st	If No, why is data reportable?	2nd
1. Are the reagents & init/final volumes correct? (Verify reagents & amt. injected) [WL Sample Reagent Tab]	✓		na
2. Did BFB meet tune criteria? [F8]	✓	□ [Failed TO-14A, but passes TO-15]	
3. Was the CCAL compared to the most recent & correct ICAL (correct last ICal File batch #/start/end Cal date/time)? [F8]	✓	List Target analytes outside CCV limits: Benzyl chloride	
4. Elution order checked on isomeric pairs? [Chrom]			
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane	✓		
• 2-methyl butane / acrolein	✓		
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane	✓		
• vinyl acetate / hexane	✓		
• cis- and trans- isomers	✓		
• ethyl benzene / m/p-xylene / o-xylene	✓		
• n-propylbenzene/4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene/sec-butylbenzene/1,2,3-trimethylbenzene	✓		
• tert-butylbenzene/4-isopropyltoluene	✓		
• 1,3- , 1,4- , and 1,2-dichlorobenzene	✓		
• 1,2-dimethyl-4-ethylbenzene/1,2,4,5-, 1,2,3,5-, and 1,2,3,4-tetramethylbenzenes	NA		
• 1,2,4-trichlorobenzene/1,2,3-trichlorobenzene	✓		
• 2-, and 1-methylnaphthalene	✓		
5. "Range" analytes & internal standard RIC ID'd correctly, inspected for interferences & proper integration?	NA		
6. Has the RT been updated to the method?	✓		
Analyst/date Suphamon Ku 6/29/2021		**2nd Level Reviewer/date**	

7. Has the vol injected been verified vs Entech & corrected if actual amount differs >5%? [WL Sample Info: init amt = sample amt; final amt = 500 mL]	✓		
8. Do the lab ID, Info 1 and Dilution Factor columns correlate in Chrom? [Sample List - Lab ID vs. Info 1 vs. Dilution]	✓		
9. Can dilution history verified? [Mgmt Report]	✓		
10. Are all analytes present in the system blank < RL? (<1/2 RL for DoD). *If no, list blank ID:*	✓	□ Method Blank – Report, ND (NCM#_____) NCM 70269 □ Method Blank – Report, 10X (NCM#_____)	
11. All runs - peaks ID'd correctly and false positives removed?	✓		
12. If manual integrations performed, are they properly performed, baseline clearly identified, and correct reason given?	✓		
13. IS/Surr within limits? *List samples and reason (e.g.,* 1 thru 5*):* [Batch Results IS & SUR Tab] Sample Reason Sample Reason	✓	□ (1) Surrogate – Matrix (NCM#_____) □ (2) Surrogate – High, ND (NCM#_____) □ (3) ISTD – RA/RA Concurs (NCM#_____) □ (4) Surrogate –RX concur, Report both (NCM#_____) □ (5) ISTD – Matrix, DL required (NCM#_____)	
14. Samples outside calibration range scheduled for dilution?	✓	□ ICAL – Range Exceeded; Minimum Dilution	

Chrom Review	1st	If No, why is data reportable?	2nd
15. For first analysis that is at a dilution, is highest target analyte >20% cal range? *List samples and reason:* Sample Reason Sample Reason	✓	□ (1) Reporting Limit – Dilution, Matrix (NCM#_____) □ (2) Reporting Limit – Dilution, Non-Target (NCM#_____) □ (3) Issues with initial collection volume; see DRC.	
16. RIC inspected for proper integration for TPH?	NA		
17. Obvious non-TPH peaks excluded?	↓		
18. Individual TPH peak area < octane high point area?	↓		

Eurofins/TestAmerica Knoxville GC/MS Air - Batch Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 22 & KNOX-MS-0023, Rev 5

TALS Review	1st	If No, why is data reportable?	2nd
19. Graphics uploaded? [open one paperclip]	✓		
20. NCM generated if BFB failed TO-14A criteria, but passes TO-15?	NA	□ [Failed TO-14A, but passes TO-15] (NCM#_____)	
21. Is the %D ≤ 30% for all target analytes? [≤ 50% for 1&2 methylnaphthalene] [Chrom-F8] [TALS-Sample Results Tab]	✓	□ CCV - %D - LCS criteria met (NCM#_____) ☑ CCV - %D high - outside criteria, samples ND, Sample IDs Included (NCM# 30267)	
22. Undiluted volume analyzed meets the method requirement (200 mL vs. 500 mL)?	✓		na
23. Project & sample special instructions verified?	✓		
24. If samples were Tedlar bags, was the 72 hr HT met? ** Narrate transfer to can.	✓	□ Air Analysis - Air Sample Transfer to Canister (NCM#____)	
25. Sample analyses done within analytical holding time?	✓	□ Holding Time – Received w/Insufficient Time (NCM#_____) □ Holding Time – Receipt (NCM#_____)	
26. Did the LCS meet criteria (70-130% with a limited # allowed 60-140% (see table) provisional analyte limit 60-140% with a limited # allowed 50-150%, and no two consecutive MEs). [Sample Results Tab] Note: No LCS required for OH VAP.	✓	□ Marginal Exceedances - Within ME Limits and Random; Report (NCM# ___) ☑ LCS/LCSD - %R High (NCM# 30268)	
27. Suffixes assigned properly (DL/RE)? [Sample List Tab]	NA		
28. Each job has QC created (BFB, CCV, LCS, MB)? [Sample List Tab]	✓		
29. Analytes over calibration range set to secondary [Conditions Review Tab]	✓		
30. Samples not reported set to 'Acceptable' or 'Rejected'? [Sample Results Tab]	✓		
31. DUP done per 20 samples and are all RPDs within limits? (for target analytes >5x RL, <25% RPD; no criteria for n-butanol) *(If DUP not reported - set to 'Acceptable' for each job)*	✓	LCS/LCSD	
32. Samples linked to proper blank (200 mL or 500 mL)? [QC links]	✓	**500 mL blank ID:** #8 **200 mL blank ID:** _____	
33. Samples linked to job's BFB/CCV/LCS/MB? [QC Links]	✓		
34. Correct ICV linked to each MB? [QC Links]	✓		
35. Were all samples/QC analyzed within 24 hr of BFB? [F7]	✓		
36. If criteria were not met, was a NCM generated, and assigned to proper QC & samples? [Also see Conditions Review Tab]	✓		
37. Run Checklist and acknowledge findings [F8]	✓		
38. Runs set to 1st level review?	✓	Runs set to 2nd level review?	
39. QC checker run and items addressed?	-na-		
40. Checklist & Entech report scanned, attached & assigned properly?	-na-		

Number of target analytes in LCS	# marginal exceedances of LCS control limits allowed
>90	5
71 - 90	4
51 - 70	3
31 - 50	2
11 - 30	1
< 11	0

Analyst: Sophonan Ku	Date: 6/29/2021	2nd Level Reviewer :	Date:
Comments:		**Comments:**	
Cl acetone lines 16-23			
Example Calculation: 140-23591-4 vinyl chloride			
On-column ppbv x Final Vol (mL)/Entech Initial Vol (mL) x Canister Dilution Log DF			
10.48023 x 500/100 x 1.49 x 62.5/24.45 = 200 µg/m³			

Eurofins/TestAmerica Knoxville GC/MS Air - Batch Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 20 & KNOX-MS-0023, Rev 4

Instrument/Date	MR 6/28/21		Routine	DOD 5	OHIO VAP
CCAL Chrom WL #	19739	CCAL Batch #	51274	NA	NA
ICAL Chrom WL #	19646	ICAL Batch # / Event #	51007/3105	51010/3108	51009/3107

Chrom Review	1st	If No, why is data reportable?	2nd
1. Are the reagents & init/final volumes correct? (Verify reagents & amt. injected) [WL Sample Reagent Tab]			na
2. Did BFB meet tune criteria? [F8]		□ [Failed TO-14A, but passes TO-15]	Y
3. Was the CCAL compared to the most recent & correct ICAL (correct last ICal File batch #/start/end Cal date/time)? [F8]		List Target analytes outside CCV limits: _____ _____ _____	Y
4. Elution order checked on isomeric pairs? [Chrom]			
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane			Y
• 2-methyl butane / acrolein			Y
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane			Y
• vinyl acetate / hexane			Y
• cis- and trans- isomers			Y
• ethyl benzene / m/p-xylene / o-xylene			Y
• n-propylbenzene/4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene/sec-butylbenzene/1,2,3-trimethylbenzene			Y
• tert-butylbenzene/4-isopropyltoluene			Y
• 1,3- , 1,4- , and 1,2-dichlorobenzene			Y
• 1,2-dimethyl-4-ethylbenzene/1,2,4,5-, 1,2,3,5-, and 1,2,3,4-tetramethylbenzenes			NA
• 1,2,4-trichlorobenzene/1,2,3-trichlorobenzene			Y
• 2-, and 1-methylnaphthalene			Y
5. "Range" analytes & internal standard RIC ID'd correctly, inspected for interferences & proper integration?			Y
6. Has the RT been updated to the method?			Y
Analyst/date		**2nd Level Reviewer/date LL 6/29/21**	

7. Has the vol injected been verified vs Entech & corrected if actual amount differs >5%? [WL Sample Info: init amt = sample amt; final amt = 500 mL]			Y
8. Do the lab ID, Info 1 and Dilution Factor columns correlate in Chrom? [Sample List - Lab ID vs. Info 1 vs. Dilution]			Y
9. Can dilution history verified? [Mgmt Report]			Y
10. Are all analytes present in the system blank < RL? (<1/2 RL for DoD). *If no, list blank ID:*		□ Method Blank – Report, ND (NCM#_____) □ Method Blank – Report, 10X (NCM#_____)	Y
11. All runs - peaks ID'd correctly and false positives removed?			Y
12. If manual integrations performed, are they properly performed, baseline clearly identified, and correct reason given?			Y
13. IS/Surr within limits? *List samples and reason (e.g.,* 1 thru 5*):* [Batch Results IS & SUR Tab] Sample Reason Sample Reason _____ _____ _____ _____ _____ _____ _____ _____		□ (1) Surrogate – Matrix (NCM#_____) □ (2) Surrogate – High, ND (NCM#_____) □ (3) ISTD – RA/RA Concurs (NCM#_____) □ (4) Surrogate –RX concur, Report both (NCM#_____) □ (5) ISTD – Matrix, DL required (NCM#_____)	Y
14. Samples outside calibration range scheduled for dilution?		□ ICAL – Range Exceeded; Minimum Dilution	Y
Chrom Review	**1st**	**If No, why is data reportable?**	**2nd**
15. For first analysis that is at a dilution, is highest target analyte >20% cal range? *List samples and reason:* Sample Reason Sample Reason _____ _____ _____ _____ _____ _____ _____ _____		□ (1) Reporting Limit – Dilution, Matrix (NCM#_____) □ (2) Reporting Limit – Dilution, Non-Target (NCM#_____) □ (3) Issues with initial collection volume; see DRC.	Y
16. RIC inspected for proper integration for TPH?			NA
17. Obvious non-TPH peaks excluded?			NA
18. Individual TPH peak area < octane high point area?			NA

Eurofins/TestAmerica Knoxville GC/MS Air - Batch Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 20 & KNOX-MS-0023, Rev 4

TALS Review	**1st**	**If No, why is data reportable?**	**2nd**
19. Graphics uploaded? [open one paperclip]			**Y**
20. NCM generated if BFB failed TO-14A criteria, but passes TO-15?		□ [Failed TO-14A, but passes TO-15] (NCM#_____)	**NA**
21. Is the %D ≤ 30% for all target analytes? [≤ 50% for 1&2 methylnaphthalene] [Chrom-F8] [TALS-Sample Results Tab]		□ CCV - %D - LCS criteria met (NCM#_____) □ CCV - %D high - outside criteria, samples ND, Sample IDs Included (NCM#_____)	**Y**
22. Undiluted volume analyzed meets the method requirement (200 mL vs. 500 mL)?			**na**
23. Project & sample special instructions verified?			**Y**
24. If samples were Tedlar bags, was the 72 hr HT met? ** Narrate transfer to can.		□ Air Analysis - Air Sample Transfer to Canister (NCM#____)	**Y**
25. Sample analyses done within analytical holding time?		□ Holding Time – Received w/Insufficient Time (NCM#_____) □ Holding Time – Receipt (NCM#_____)	**Y**
26. Did the LCS meet criteria (70-130% with a limited # allowed 60-140% (see table) provisional analyte limit 60-140% with a limited # allowed 50-150%, and no two consecutive MEs). [Sample Results Tab] Note: No LCS required for OH VAP.		□ Marginal Exceedances - Within ME Limits and Random; Report (NCM# ___) □ LCS/LCSD - %R High (NCM#_____)	**Y**
27. Suffixes assigned properly (DL/RE)? [Sample List Tab]			**Y**
28. Each job has QC created (BFB, CCV, LCS, MB)? [Sample List Tab]			**Y**
29. Analytes over calibration range set to secondary [Conditions Review Tab]			**Y**
30. Samples not reported set to 'Acceptable' or 'Rejected'? [Sample Results Tab]			**Y**
31. DUP done per 20 samples and are all RPDs within limits? (for target analytes >5x RL, <25% RPD; no criteria for n-butanol) *(If DUP not reported - set to 'Acceptable' for each job)*		**LCSD**	**Y**
32. Samples linked to proper blank (200 mL or 500 mL)? [QC links]		**500 mL blank ID: 8** **200 mL blank ID: NA**	**Y**
33. Samples linked to job's BFB/CCV/LCS/MB? [QC Links]			**Y**
34. Correct ICV linked to each MB? [QC Links]			**Y**
35. Were all samples/QC analyzed within 24 hr of BFB? [F7]			**Y**
36. If criteria were not met, was a NCM generated, and assigned to proper QC & samples? [Also see Conditions Review Tab]			**Y**
37. Run Checklist and acknowledge findings [F8]			**Y**
38. Runs set to 1st level review?		Runs set to 2nd level review?	**Y**
39. QC checker run and items addressed?	**-na-**		**Y**
40. Checklist & Entech report scanned, attached & assigned properly?	**-na-**		**Y**

Number of target analytes in LCS	# marginal exceedances of LCS control limits allowed
>90	5
71 - 90	4
51 - 70	3
31 - 50	2
11 - 30	1
< 11	0

Analyst:	**Date:**	**2nd Level Reviewer : LL**	**Date: 6/29/21**
Comments:		**Comments:**	
Example Calculation:			
On-column ppbv x Final Vol (mL)/Entech Initial Vol (mL) x Canister Dilution Log DF			

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Instrument ID: MS Start Date: 06/29/2021 07:42

Analysis Batch Number: 51283 End Date: 06/30/2021 05:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-51283/1		06/29/2021 07:42	1	SBFBF29.D	RTX-5 0.32(mm)
CCVIS 140-51283/2		06/29/2021 08:12	1	SCCVF29.D	RTX-5 0.32(mm)
LCS 140-51283/1002		06/29/2021 08:12	1	SCCVF29-LCS.d	RTX-5 0.32(mm)
MB 140-51283/4		06/29/2021 09:51	1	S500BF29.D	RTX-5 0.32(mm)
ZZZZZ		06/29/2021 10:44	1		RTX-5 0.32(mm)
ZZZZZ		06/29/2021 11:36	1		RTX-5 0.32(mm)
ZZZZZ		06/29/2021 15:05	1		RTX-5 0.32(mm)
ZZZZZ		06/29/2021 15:56	1		RTX-5 0.32(mm)
ZZZZZ		06/29/2021 16:45	1		RTX-5 0.32(mm)
ZZZZZ		06/29/2021 17:34	1		RTX-5 0.32(mm)
ZZZZZ		06/29/2021 22:22	1		RTX-5 0.32(mm)
ZZZZZ		06/29/2021 23:18	1		RTX-5 0.32(mm)
ZZZZZ		06/30/2021 00:10	1		RTX-5 0.32(mm)
ZZZZZ		06/30/2021 01:03	1.39		RTX-5 0.32(mm)
ZZZZZ		06/30/2021 01:56	1		RTX-5 0.32(mm)
140-23523-3	SVE - 1	06/30/2021 03:29	37.59	SF29P116.D	RTX-5 0.32(mm)
ZZZZZ		06/30/2021 04:16	37.59		RTX-5 0.32(mm)
ZZZZZ		06/30/2021 05:08	1		RTX-5 0.32(mm)

Eurofins/TestAmerica Knoxville GC/MS Air - Batch Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 22 & KNOX-MS-0023, Rev 5

Instrument/Date	MS 6/29/2021		Routine	DOD	OHIO VAP
CCAL Chrom WL #	19746	CCAL Batch #	51283		51336
ICAL Chrom WL #	19525	ICAL Batch # / Event #	50646 / 3095	/	50648 / 3097

Chrom Review	1st	If No, why is data reportable?	2nd
1. Are the reagents & init/final volumes correct? (Verify reagents & amt. injected) [WL Sample Reagent Tab]	✓		na
2. Did BFB meet tune criteria? [F8]	✓	□ [Failed TO-14A, but passes TO-15]	
3. Was the CCAL compared to the most recent & correct ICAL (correct last ICal File batch #/start/end Cal date/time)? [F8]	✓	List Target analytes outside CCV limits: Ethanol	
4. Elution order checked on isomeric pairs? [Chrom]			
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane	✓		
• 2-methyl butane / acrolein	✓		
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane	✓		
• vinyl acetate / hexane	✓		
• cis- and trans- isomers	✓		
• ethyl benzene / m/p-xylene / o-xylene	✓		
• n-propylbenzene/4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene/sec-butylbenzene/1,2,3-trimethylbenzene	✓		
• tert-butylbenzene/4-isopropyltoluene	✓		
• 1,3- , 1,4- , and 1,2-dichlorobenzene	✓		
• 1,2-dimethyl-4-ethylbenzene/1,2,4,5-, 1,2,3,5-, and 1,2,3,4-tetramethylbenzenes	✓		
• 1,2,4-trichlorobenzene/1,2,3-trichlorobenzene	✓		
• 2-, and 1-methylnaphthalene	✓		
5. "Range" analytes & internal standard RIC ID'd correctly, inspected for interferences & proper integration?	NA		
6. Has the RT been updated to the method?	✓		
Analyst/date Suphanan KL 6/30/2021		**2nd Level Reviewer/date**	

7. Has the vol injected been verified vs Entech & corrected if actual amount differs >5%? [WL Sample Info: init amt = sample amt; final amt = 500 mL]	✓		
8. Do the lab ID, Info 1 and Dilution Factor columns correlate in Chrom? [Sample List - Lab ID vs. Info 1 vs. Dilution]	✓		
9. Can dilution history verified? [Mgmt Report]	✓		
10. Are all analytes present in the system blank < RL? (<1/2 RL for DoD). *If no, list blank ID:*	✓	□ Method Blank – Report, ND (NCM#_____) NCM 30301 □ Method Blank – Report, 10X (NCM#_____)	
11. All runs - peaks ID'd correctly and false positives removed?	✓		
12. If manual integrations performed, are they properly performed, baseline clearly identified, and correct reason given?	✓		
13. IS/Surr within limits? *List samples and reason (e.g.,* 1 thru 5*):* [Batch Results IS & SUR Tab] Sample Reason Sample Reason	✓	□ (1) Surrogate – Matrix (NCM#_____) □ (2) Surrogate – High, ND (NCM#_____) □ (3) ISTD – RA/RA Concurs (NCM#_____) □ (4) Surrogate –RX concur, Report both (NCM#_____) □ (5) ISTD – Matrix, DL required (NCM#_____)	
14. Samples outside calibration range scheduled for dilution?	NA	□ ICAL – Range Exceeded; Minimum Dilution	

Chrom Review	1st	If No, why is data reportable?	2nd
15. For first analysis that is at a dilution, is highest target analyte >20% cal range? *List samples and reason:* Sample Reason Sample Reason	✓	□ (1) Reporting Limit – Dilution, Matrix (NCM#_____) □ (2) Reporting Limit – Dilution, Non-Target (NCM#_____) □ (3) Issues with initial collection volume; see DRC.	
16. RIC inspected for proper integration for TPH?	NA		
17. Obvious non-TPH peaks excluded?	↓		
18. Individual TPH peak area < octane high point area?			
TALS Review	**1st**	**If No, why is data reportable?**	**2nd**

Eurofins/TestAmerica Knoxville GC/MS Air - Batch Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 22 & KNOX-MS-0023, Rev 5

19. Graphics uploaded? [open one paperclip]	✓		
20. NCM generated if BFB failed TO-14A criteria, but passes TO-15?	NA	□ [Failed TO-14A, but passes TO-15] (NCM#_____)	
21. Is the %D ≤ 30% for all target analytes? [≤ 50% for 1&2 methylnaphthalene] No LCS variances are allowed for DoD5 [Chrom-F8] [TALS-Sample Results Tab]	✓	☑ CCV - %D - LCS criteria met (NCM# 30302) □ CCV - %D high - outside criteria, samples ND, Sample IDs Included (NCM#_____)	
22. Undiluted volume analyzed meets the method requirement (200 mL vs. 500 mL)?	✓		na
23. Project & sample special instructions verified?	✓		
24. If samples were Tedlar bags, was the 72 hr HT met? ** Narrate transfer to can.	NA	□ Air Analysis - Air Sample Transfer to Canister (NCM#____)	
25. Sample analyses done within analytical holding time?	✓	□ Holding Time – Received w/Insufficient Time (NCM#_____) □ Holding Time – Receipt (NCM#_____)	
26. Did the LCS meet criteria (70-130% with a limited # allowed 60-140% (see table) provisional analyte limit 60-140% with a limited # allowed 50-150%, and no two consecutive MEs). [Sample Results Tab] Note: No LCS required for OH VAP.	✓	□ Marginal Exceedances - Within ME Limits and Random; Report (NCM# ___) □ LCS/LCSD - %R High (NCM#_____)	
27. Suffixes assigned properly (DL/RE)? [Sample List Tab]	NA		
28. Each job has QC created (BFB, CCV, LCS, MB)? [Sample List Tab]	✓		
29. Analytes over calibration range set to secondary [Conditions Review Tab]	NA		
30. Samples not reported set to 'Acceptable' or 'Rejected'? [Sample Results Tab]	✓		
31. DUP done per 20 samples and are all RPDs within limits? (for target analytes >5x RL, <25% RPD; no criteria for n-butanol) *(If DUP not reported - set to 'Acceptable' for each job)*	✓		
32. Samples linked to proper blank (200 mL or 500 mL)? [QC links]	✓	**500 mL blank ID:** #4 **200 mL blank ID:** #5	
33. Samples linked to job's BFB/CCV/LCS/MB? [QC Links]	✓		
34. Correct ICV linked to each MB? [QC Links]	✓		
35. Were all samples/QC analyzed within 24 hr of BFB? [F7]	✓		
36. If criteria were not met, was a NCM generated, and assigned to proper QC & samples? [Also see Conditions Review Tab]	✓		
37. Run Checklist and acknowledge findings [F8]	✓		
38. Runs set to 1st level review?	✓	Runs set to 2nd level review?	
39. QC checker run and items addressed?	-na-		
40. Checklist & Entech report scanned, attached & assigned properly?	-na-		

Number of target analytes in LCS	# marginal exceedances of LCS control limits allowed
>90	5
71 - 90	4
51 - 70	3
31 - 50	2
11 - 30	1
< 11	0

Analyst: Suphavan Ku	**Date:** 6/30/2021	**2nd Level Reviewer :**	**Date:**
Comments:		**Comments:**	
Cl acetone lines 9,10			
Example Calculation: 140-23523-3 TCE			
On-column ppbv x Final Vol (mL)/Entech Initial Vol (mL) x Canister Dilution Log DF			
6.981317 x 500/40 x 37.59 = 3280			

Eurofins/TestAmerica Knoxville GC/MS Air - Batch Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 20 & KNOX-MS-0023, Rev 4

Instrument/Date	MS 6/29/21		Routine	DOD 5	OHIO VAP
CCAL Chrom WL #	19746	CCAL Batch #	51283	NA	51336
ICAL Chrom WL #	19525	ICAL Batch # / Event #	50646/3095	50649/3098	50648/3097

Chrom Review	1st	If No, why is data reportable?	2nd
1. Are the reagents & init/final volumes correct? (Verify reagents & amt. injected) [WL Sample Reagent Tab]			na
2. Did BFB meet tune criteria? [F8]		□ [Failed TO-14A, but passes TO-15]	Y
3. Was the CCAL compared to the most recent & correct ICAL (correct last ICal File batch #/start/end Cal date/time)? [F8]		List Target analytes outside CCV limits: _____ _____ _____	Y
4. Elution order checked on isomeric pairs? [Chrom]			
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane			Y
• 2-methyl butane / acrolein			Y
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane			Y
• vinyl acetate / hexane			Y
• cis- and trans- isomers			Y
• ethyl benzene / m/p-xylene / o-xylene			Y
• n-propylbenzene/4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene/sec-butylbenzene/1,2,3-trimethylbenzene			Y
• tert-butylbenzene/4-isopropyltoluene			Y
• 1,3- , 1,4- , and 1,2-dichlorobenzene			Y
• 1,2-dimethyl-4-ethylbenzene/1,2,4,5-, 1,2,3,5-, and 1,2,3,4-tetramethylbenzenes			NA
• 1,2,4-trichlorobenzene/1,2,3-trichlorobenzene			Y
• 2-, and 1-methylnaphthalene			Y
5. "Range" analytes & internal standard RIC ID'd correctly, inspected for interferences & proper integration?			Y
6. Has the RT been updated to the method?			Y
Analyst/date		**2nd Level Reviewer/date LL 6/30/21**	

7. Has the vol injected been verified vs Entech & corrected if actual amount differs >5%? [WL Sample Info: init amt = sample amt; final amt = 500 mL]			Y
8. Do the lab ID, Info 1 and Dilution Factor columns correlate in Chrom? [Sample List - Lab ID vs. Info 1 vs. Dilution]			Y
9. Can dilution history verified? [Mgmt Report]			Y
10. Are all analytes present in the system blank < RL? (<1/2 RL for DoD). *If no, list blank ID:*		□ Method Blank – Report, ND (NCM#_____) □ Method Blank – Report, 10X (NCM#_____)	Y
11. All runs - peaks ID'd correctly and false positives removed?			Y
12. If manual integrations performed, are they properly performed, baseline clearly identified, and correct reason given?			Y
13. IS/Surr within limits? *List samples and reason (e.g.,* 1 thru 5*):* [Batch Results IS & SUR Tab] Sample Reason Sample Reason _____ _____ _____ _____ _____ _____ _____ _____		□ (1) Surrogate – Matrix (NCM#_____) □ (2) Surrogate – High, ND (NCM#_____) □ (3) ISTD – RA/RA Concurs (NCM#_____) □ (4) Surrogate –RX concur, Report both (NCM#_____) □ (5) ISTD – Matrix, DL required (NCM#_____)	Y
14. Samples outside calibration range scheduled for dilution?		□ ICAL – Range Exceeded; Minimum Dilution	NA

Chrom Review	1st	If No, why is data reportable?	2nd
15. For first analysis that is at a dilution, is highest target analyte >20% cal range? *List samples and reason:* Sample Reason Sample Reason _____ _____ _____ _____ _____ _____ _____ _____		□ (1) Reporting Limit – Dilution, Matrix (NCM#_____) □ (2) Reporting Limit – Dilution, Non-Target (NCM#_____) □ (3) Issues with initial collection volume; see DRC.	Y
16. RIC inspected for proper integration for TPH?			NA
17. Obvious non-TPH peaks excluded?			NA
18. Individual TPH peak area < octane high point area?			NA

Eurofins/TestAmerica Knoxville GC/MS Air - Batch Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 20 & KNOX-MS-0023, Rev 4

TALS Review	**1st**	**If No, why is data reportable?**	**2nd**
19. Graphics uploaded? [open one paperclip]			**Y**
20. NCM generated if BFB failed TO-14A criteria, but passes TO-15?		□ [Failed TO-14A, but passes TO-15] (NCM#_____)	**NA**
21. Is the %D ≤ 30% for all target analytes? [≤ 50% for 1&2 methylnaphthalene] [Chrom-F8] [TALS-Sample Results Tab]		□ CCV - %D - LCS criteria met (NCM#_____) □ CCV - %D high - outside criteria, samples ND, Sample IDs Included (NCM#_____)	**Y**
22. Undiluted volume analyzed meets the method requirement (200 mL vs. 500 mL)?			**na**
23. Project & sample special instructions verified?			**Y**
24. If samples were Tedlar bags, was the 72 hr HT met? ** Narrate transfer to can.		□ Air Analysis - Air Sample Transfer to Canister (NCM#____)	**NA**
25. Sample analyses done within analytical holding time?		□ Holding Time – Received w/Insufficient Time (NCM#_____) □ Holding Time – Receipt (NCM#_____)	**Y**
26. Did the LCS meet criteria (70-130% with a limited # allowed 60-140% (see table) provisional analyte limit 60-140% with a limited # allowed 50-150%, and no two consecutive MEs). [Sample Results Tab] Note: No LCS required for OH VAP.		□ Marginal Exceedances - Within ME Limits and Random; Report (NCM# ___) □ LCS/LCSD - %R High (NCM#_____)	**Y**
27. Suffixes assigned properly (DL/RE)? [Sample List Tab]			**Y**
28. Each job has QC created (BFB, CCV, LCS, MB)? [Sample List Tab]			**Y**
29. Analytes over calibration range set to secondary [Conditions Review Tab]			**NA**
30. Samples not reported set to 'Acceptable' or 'Rejected'? [Sample Results Tab]			**Y**
31. DUP done per 20 samples and are all RPDs within limits? (for target analytes >5x RL, <25% RPD; no criteria for n-butanol) *(If DUP not reported - set to 'Acceptable' for each job)*			**Y**
32. Samples linked to proper blank (200 mL or 500 mL)? [QC links]		**500 mL blank ID: 4** **200 mL blank ID: 5**	**Y**
33. Samples linked to job's BFB/CCV/LCS/MB? [QC Links]			**Y**
34. Correct ICV linked to each MB? [QC Links]			**Y**
35. Were all samples/QC analyzed within 24 hr of BFB? [F7]			**Y**
36. If criteria were not met, was a NCM generated, and assigned to proper QC & samples? [Also see Conditions Review Tab]			**Y**
37. Run Checklist and acknowledge findings [F8]			**Y**
38. Runs set to 1st level review?		Runs set to 2nd level review?	**Y**
39. QC checker run and items addressed?	**-na-**		**Y**
40. Checklist & Entech report scanned, attached & assigned properly?	**-na-**		**Y**

Number of target analytes in LCS / # marginal exceedances of LCS control limits allowed

Number of target analytes in LCS	# marginal exceedances of LCS control limits allowed
>90	5
71 - 90	4
51 - 70	3
31 - 50	2
11 - 30	1
< 11	0

Analyst:	**Date:**	**2nd Level Reviewer : LL**	**Date: 6/30/21**
Comments:		**Comments:**	
Example Calculation:			
On-column ppbv x Final Vol (mL)/Entech Initial Vol (mL) x Canister Dilution Log DF			

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23523-1

SDG No.:

Instrument ID: MR Start Date: 06/30/2021 08:23

Analysis Batch Number: 51316 End Date: 07/01/2021 05:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-51316/1		06/30/2021 08:23	1	RBFBF30.D	RTX-5 0.32(mm)
CCVIS 140-51316/2		06/30/2021 08:50	1	RCCVF30.D	RTX-5 0.32(mm)
LCS 140-51316/1002		06/30/2021 08:50	1	RCCVF30-LCS.d	RTX-5 0.32(mm)
MB 140-51316/4		06/30/2021 10:48	1	R500BF30.D	RTX-5 0.32(mm)
ZZZZZ		06/30/2021 11:33	1		RTX-5 0.32(mm)
ZZZZZ		06/30/2021 12:20	1		RTX-5 0.32(mm)
ZZZZZ		06/30/2021 13:05	1		RTX-5 0.32(mm)
ZZZZZ		06/30/2021 13:55	1		RTX-5 0.32(mm)
ZZZZZ		06/30/2021 15:40	1.4		RTX-5 0.32(mm)
ZZZZZ		06/30/2021 16:23	1.4		RTX-5 0.32(mm)
ZZZZZ		06/30/2021 17:08	1.42		RTX-5 0.32(mm)
140-23523-2	HSVE DEEP	06/30/2021 17:53	1	RF30P103.D	RTX-5 0.32(mm)
ZZZZZ		06/30/2021 22:20	175.92		RTX-5 0.32(mm)
ZZZZZ		06/30/2021 23:51	1		RTX-5 0.32(mm)
ZZZZZ		07/01/2021 00:37	1		RTX-5 0.32(mm)
ZZZZZ		07/01/2021 01:21	150		RTX-5 0.32(mm)
ZZZZZ		07/01/2021 02:05	1		RTX-5 0.32(mm)
ZZZZZ		07/01/2021 02:50	1		RTX-5 0.32(mm)
ZZZZZ		07/01/2021 03:33	3.18		RTX-5 0.32(mm)
ZZZZZ		07/01/2021 04:22	1		RTX-5 0.32(mm)
ZZZZZ		07/01/2021 05:53	1.4		RTX-5 0.32(mm)

Eurofins/TestAmerica Knoxville GC/MS Air - Batch Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 22 & KNOX-MS-0023, Rev 5

Instrument/Date	MR 6/30/2021		Routine	DOD	OHIO VAP
CCAL Chrom WL #	19757	CCAL Batch #	513l6		513l98
ICAL Chrom WL #	19646	ICAL Batch # / Event #	51007 / 3105	/	51009 / 3107

Chrom Review	1st	If No, why is data reportable?	2nd
1. Are the reagents & init/final volumes correct? (Verify reagents & amt. injected) [WL Sample Reagent Tab]	✓		na
2. Did BFB meet tune criteria? [F8]	✓	□ [Failed TO-14A, but passes TO-15]	
3. Was the CCAL compared to the most recent & correct ICAL (correct last ICal File batch #/start/end Cal date/time)? [F8]	✓	List Target analytes outside CCV limits: 1,2,4-Trimethylbenzene, 2-Methylnaphthalene, Benzyl chloride, Bromoform, CCl_4, Trichlorofluoromethane	
4. Elution order checked on isomeric pairs? [Chrom]			
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane	✓		
• 2-methyl butane / acrolein	✓		
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane	✓		
• vinyl acetate / hexane	✓		
• cis- and trans- isomers	✓		
• ethyl benzene / m/p-xylene / o-xylene	✓		
• n-propylbenzene/4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene/sec-butylbenzene/1,2,3-trimethylbenzene	✓		
• tert-butylbenzene/4-isopropyltoluene	✓		
• 1,3- , 1,4- , and 1,2-dichlorobenzene	✓		
• 1,2-dimethyl-4-ethylbenzene/1,2,4,5-, 1,2,3,5-, and 1,2,3,4-tetramethylbenzenes	NA		
• 1,2,4-trichlorobenzene/1,2,3-trichlorobenzene	✓		
• 2-, and 1-methylnaphthalene	✓		
5. "Range" analytes & internal standard RIC ID'd correctly, inspected for interferences & proper integration?	NA		
6. Has the RT been updated to the method?	✓		
Analyst/date Suphannee K 7/1/2021		**2nd Level Reviewer/date**	

7. Has the vol injected been verified vs Entech & corrected if actual amount differs >5%? [WL Sample Info: init amt = sample amt; final amt = 500 mL]	✓		
8. Do the lab ID, Info 1 and Dilution Factor columns correlate in Chrom? [Sample List - Lab ID vs. Info 1 vs. Dilution]	✓		
9. Can dilution history verified? [Mgmt Report]	✓		
10. Are all analytes present in the system blank < RL? (<1/2 RL for DoD). *If no, list blank ID:*	✓	□ Method Blank – Report, ND (NCM#_____) □ Method Blank – Report, 10X (NCM#_____)	
11. All runs - peaks ID'd correctly and false positives removed?	✓		
12. If manual integrations performed, are they properly performed, baseline clearly identified, and correct reason given?	✓		
13. IS/Surr within limits? *List samples and reason (e.g.,* 1 thru 5*):* [Batch Results IS & SUR Tab] Sample Reason Sample Reason _____ _____ _____ _____ _____ _____ _____ _____	✓	□ (1) Surrogate – Matrix (NCM#_____) □ (2) Surrogate – High, ND (NCM#_____) □ (3) ISTD – RA/RA Concurs (NCM#_____) □ (4) Surrogate –RX concur, Report both (NCM#_____) □ (5) ISTD – Matrix, DL required (NCM#_____)	
14. Samples outside calibration range scheduled for dilution?	✓	□ ICAL – Range Exceeded; Minimum Dilution	

Chrom Review	1st	If No, why is data reportable?	2nd
15. For first analysis that is at a dilution, is highest target analyte >20% cal range? *List samples and reason:* Sample Reason Sample Reason _____ _____ _____ _____ _____ _____ _____ _____	✓	□ (1) Reporting Limit – Dilution, Matrix (NCM#_____) □ (2) Reporting Limit – Dilution, Non-Target (NCM#_____) □ (3) Issues with initial collection volume; see DRC.	
16. RIC inspected for proper integration for TPH?	NA		
17. Obvious non-TPH peaks excluded?	↓		
18. Individual TPH peak area < octane high point area?	↓		

TALS Review	1st	If No, why is data reportable?	2nd

Eurofins/TestAmerica Knoxville GC/MS Air - Batch Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 22 & KNOX-MS-0023, Rev 5

19. Graphics uploaded? [open one paperclip]	✓		
20. NCM generated if BFB failed TO-14A criteria, but passes TO-15?	NA	□ [Failed TO-14A, but passes TO-15] (NCM#_____)	
21. Is the %D ≤ 30% for all target analytes? [≤ 50% for 1&2 methylnaphthalene] No LCS variances are allowed for DoD5 [Chrom-F8] [TALS-Sample Results Tab]	✓	☑ CCV - %D - LCS criteria met (NCM# 30346) ☐ CCV - %D high - outside criteria, samples ND, Sample IDs Included (NCM# 30347)	
22. Undiluted volume analyzed meets the method requirement (200 mL vs. 500 mL)?	✓		na
23. Project & sample special instructions verified?	✓		
24. If samples were Tedlar bags, was the 72 hr HT met? ** Narrate transfer to can.	✓	☑ Air Analysis - Air Sample Transfer to Canister (NCM# 30199)	
25. Sample analyses done within analytical holding time?	✓	□ Holding Time – Received w/Insufficient Time (NCM#_____) □ Holding Time – Receipt (NCM#_____)	
26. Did the LCS meet criteria (70-130% with a limited # allowed 60-140% (see table) provisional analyte limit 60-140% with a limited # allowed 50-150%, and no two consecutive MEs). [Sample Results Tab] Note: No LCS required for OH VAP.	✓	☑ Marginal Exceedances - Within ME Limits and Random; Report (NCM# 30348) ☑ LCS/LCSD - %R High (NCM# 30349)	
27. Suffixes assigned properly (DL/RE)? [Sample List Tab]	✓		
28. Each job has QC created (BFB, CCV, LCS, MB)? [Sample List Tab]	✓		
29. Analytes over calibration range set to secondary [Conditions Review Tab]	✓		
30. Samples not reported set to 'Acceptable' or 'Rejected'? [Sample Results Tab]	✓		
31. DUP done per 20 samples and are all RPDs within limits? (for target analytes >5x RL, <25% RPD; no criteria for n-butanol) *(If DUP not reported - set to 'Acceptable' for each job)*	✓		
32. Samples linked to proper blank (200 mL or 500 mL)? [QC links]	✓	**500 mL blank ID:** #4 **200 mL blank ID:** #5	
33. Samples linked to job's BFB/CCV/LCS/MB? [QC Links]	✓		
34. Correct ICV linked to each MB? [QC Links]	✓		
35. Were all samples/QC analyzed within 24 hr of BFB? [F7]	✓		
36. If criteria were not met, was a NCM generated, and assigned to proper QC & samples? [Also see Conditions Review Tab]	✓		
37. Run Checklist and acknowledge findings [F8]	✓		
38. Runs set to 1st level review?	✓	Runs set to 2nd level review?	
39. QC checker run and items addressed?	-na-		
40. Checklist & Entech report scanned, attached & assigned properly?	-na-		

Analyst: Suphawan K.	**Date:** 7/1/2021	**2nd Level Reviewer :**	**Date:**
Comments:		**Comments:**	
CI acetone liners 7,10,11			
Example Calculation: 140-23613-1 PCE			
On-column ppbv x Final Vol (mL)/Entech Initial Vol (mL) x Canister Dilution Log DF			
6.901729 x 500/10 x 3.18 = 1097			

Eurofins/TestAmerica Knoxville GC/MS Air - Batch Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 20 & KNOX-MS-0023, Rev 4

Instrument/Date	MR 6/30/21		Routine	DOD 5	OHIO VAP
CCAL Chrom WL #	19757	CCAL Batch #	51316	NA	51398
ICAL Chrom WL #	19646	ICAL Batch # / Event #	51007/3105	51010/3108	51009/3107

Chrom Review	1st	If No, why is data reportable?	2nd
1. Are the reagents & init/final volumes correct? (Verify reagents & amt. injected) [WL Sample Reagent Tab]			na
2. Did BFB meet tune criteria? [F8]		□ [Failed TO-14A, but passes TO-15]	Y
3. Was the CCAL compared to the most recent & correct ICAL (correct last ICal File batch #/start/end Cal date/time)? [F8]		List Target analytes outside CCV limits: _____ _____ _____	Y
4. Elution order checked on isomeric pairs? [Chrom]			
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane			Y
• 2-methyl butane / acrolein			Y
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane			Y
• vinyl acetate / hexane			Y
• cis- and trans- isomers			Y
• ethyl benzene / m/p-xylene / o-xylene			Y
• n-propylbenzene/4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene/sec-butylbenzene/1,2,3-trimethylbenzene			Y
• tert-butylbenzene/4-isopropyltoluene			Y
• 1,3- , 1,4- , and 1,2-dichlorobenzene			Y
• 1,2-dimethyl-4-ethylbenzene/1,2,4,5-, 1,2,3,5-, and 1,2,3,4-tetramethylbenzenes			NA
• 1,2,4-trichlorobenzene/1,2,3-trichlorobenzene			Y
• 2-, and 1-methylnaphthalene			Y
5. "Range" analytes & internal standard RIC ID'd correctly, inspected for interferences & proper integration?			Y
6. Has the RT been updated to the method?			Y
Analyst/date		**2nd Level Reviewer/date LL 7/1/21**	
7. Has the vol injected been verified vs Entech & corrected if actual amount differs >5%? [WL Sample Info: init amt = sample amt; final amt = 500 mL]			Y
8. Do the lab ID, Info 1 and Dilution Factor columns correlate in Chrom? [Sample List - Lab ID vs. Info 1 vs. Dilution]			Y
9. Can dilution history verified? [Mgmt Report]			Y
10. Are all analytes present in the system blank < RL? (<1/2 RL for DoD). *If no, list blank ID:*		□ Method Blank – Report, ND (NCM#_____) □ Method Blank – Report, 10X (NCM#_____)	Y
11. All runs - peaks ID'd correctly and false positives removed?			Y
12. If manual integrations performed, are they properly performed, baseline clearly identified, and correct reason given?			Y
13. IS/Surr within limits? *List samples and reason (e.g.,* 1 thru 5*):* [Batch Results IS & SUR Tab] Sample Reason Sample Reason _____ _____ _____ _____ _____ _____ _____ _____		□ (1) Surrogate – Matrix (NCM#_____) □ (2) Surrogate – High, ND (NCM#_____) □ (3) ISTD – RA/RA Concurs (NCM#_____) □ (4) Surrogate –RX concur, Report both (NCM#_____) □ (5) ISTD – Matrix, DL required (NCM#_____)	Y
14. Samples outside calibration range scheduled for dilution?		□ ICAL – Range Exceeded; Minimum Dilution	Y
Chrom Review	**1st**	**If No, why is data reportable?**	**2nd**
15. For first analysis that is at a dilution, is highest target analyte >20% cal range? *List samples and reason:* Sample Reason Sample Reason _____ _____ _____ _____ _____ _____ _____ _____		□ (1) Reporting Limit – Dilution, Matrix (NCM#_____) □ (2) Reporting Limit – Dilution, Non-Target (NCM#_____) □ (3) Issues with initial collection volume; see DRC.	Y
16. RIC inspected for proper integration for TPH?			NA
17. Obvious non-TPH peaks excluded?			NA
18. Individual TPH peak area < octane high point area?			NA

Eurofins/TestAmerica Knoxville GC/MS Air - Batch Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 20 & KNOX-MS-0023, Rev 4

TALS Review	**1st**	**If No, why is data reportable?**	**2nd**
19. Graphics uploaded? [open one paperclip]			**Y**
20. NCM generated if BFB failed TO-14A criteria, but passes TO-15?		□ [Failed TO-14A, but passes TO-15] (NCM#_____)	**NA**
21. Is the %D ≤ 30% for all target analytes? [≤ 50% for 1&2 methylnaphthalene] [Chrom-F8] [TALS-Sample Results Tab]		□ CCV - %D - LCS criteria met (NCM#_____) □ CCV - %D high - outside criteria, samples ND, Sample IDs Included (NCM#_____)	**Y**
22. Undiluted volume analyzed meets the method requirement (200 mL vs. 500 mL)?			**na**
23. Project & sample special instructions verified?			**Y**
24. If samples were Tedlar bags, was the 72 hr HT met? ** Narrate transfer to can.		□ Air Analysis - Air Sample Transfer to Canister (NCM#____)	**Y**
25. Sample analyses done within analytical holding time?		□ Holding Time – Received w/Insufficient Time (NCM#_____) □ Holding Time – Receipt (NCM#_____)	**Y**
26. Did the LCS meet criteria (70-130% with a limited # allowed 60-140% (see table) provisional analyte limit 60-140% with a limited # allowed 50-150%, and no two consecutive MEs). [Sample Results Tab] Note: No LCS required for OH VAP.		□ Marginal Exceedances - Within ME Limits and Random; Report (NCM# ___) □ LCS/LCSD - %R High (NCM#_____)	**Y**
27. Suffixes assigned properly (DL/RE)? [Sample List Tab]			**Y**
28. Each job has QC created (BFB, CCV, LCS, MB)? [Sample List Tab]			**Y**
29. Analytes over calibration range set to secondary [Conditions Review Tab]			**Y**
30. Samples not reported set to 'Acceptable' or 'Rejected'? [Sample Results Tab]			**Y**
31. DUP done per 20 samples and are all RPDs within limits? (for target analytes >5x RL, <25% RPD; no criteria for n-butanol) *(If DUP not reported - set to 'Acceptable' for each job)*			**Y**
32. Samples linked to proper blank (200 mL or 500 mL)? [QC links]		**500 mL blank ID: 4** **200 mL blank ID: 5**	**Y**
33. Samples linked to job's BFB/CCV/LCS/MB? [QC Links]			**Y**
34. Correct ICV linked to each MB? [QC Links]			**Y**
35. Were all samples/QC analyzed within 24 hr of BFB? [F7]			**Y**
36. If criteria were not met, was a NCM generated, and assigned to proper QC & samples? [Also see Conditions Review Tab]			**Y**
37. Run Checklist and acknowledge findings [F8]			**Y**
38. Runs set to 1st level review?		Runs set to 2nd level review?	**Y**
39. QC checker run and items addressed?	**-na-**		**Y**
40. Checklist & Entech report scanned, attached & assigned properly?	**-na-**		**Y**

Number of target analytes in LCS	# marginal exceedances of LCS control limits allowed
>90	5
71 - 90	4
51 - 70	3
31 - 50	2
11 - 30	1
< 11	0

Analyst:	**Date:**	**2nd Level Reviewer : LL**	**Date: 7/1/21**
Comments:		**Comments:**	
Example Calculation:			
On-column ppbv x Final Vol (mL)/Entech Initial Vol (mL) x Canister Dilution Log DF			

AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Knoxvill Job No.: 140-23523-1

SDG No.:

Batch Number: 51274 Batch Start Date: 06/28/21 07:35 Batch Analyst: Khachitpongpanit, Suphawa

Batch Method: TO 15 LL Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	InitialPressure	FinalPressure	40CV101P 00140	40MXBFB 00001
BFB 140-51274/1		TO 15 LL		500 mL	500 mL	1	1		40 mL
CCVIS 140-51274/2		TO 15 LL		500 mL	500 mL	1	1	100 mL	
MB 140-51274/8		TO 15 LL		500 mL	500 mL	1	1		
140-23523-A-1	HSVE SHALLOW	TO 15 LL	T	20 mL	500 mL	1	1		
LCS 140-51274/1002		TO 15 LL		500 mL	500 mL	1	1	100 mL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	40MXISSUR 00001					
BFB 140-51274/1		TO 15 LL							
CCVIS 140-51274/2		TO 15 LL		40 mL					
MB 140-51274/8		TO 15 LL		40 mL					
140-23523-A-1	HSVE SHALLOW	TO 15 LL	T	40 mL					
LCS 140-51274/1002		TO 15 LL		40 mL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Knoxvill Job No.: 140-23523-1

SDG No.:

Batch Number: 51283 Batch Start Date: 06/29/21 07:42 Batch Analyst: Khachitpongpanit, Suphawa

Batch Method: TO 15 LL Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	InitialPressure	FinalPressure	40CV101S 00145	40MXBFB 00001
BFB 140-51283/1		TO 15 LL		500 mL	500 mL	1	1		40 mL
CCVIS 140-51283/2		TO 15 LL		500 mL	500 mL	1	1	100 mL	
MB 140-51283/4		TO 15 LL		500 mL	500 mL	1	1		
140-23523-A-3	SVE - 1	TO 15 LL	T	40 mL	500 mL	1	1		
LCS 140-51283/1002		TO 15 LL		500 mL	500 mL	1	1	100 mL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	40MXISSUR 00001					
BFB 140-51283/1		TO 15 LL							
CCVIS 140-51283/2		TO 15 LL		40 mL					
MB 140-51283/4		TO 15 LL		40 mL					
140-23523-A-3	SVE - 1	TO 15 LL	T	40 mL					
LCS 140-51283/1002		TO 15 LL		40 mL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Knoxvill Job No.: 140-23523-1

SDG No.:

Batch Number: 51316 Batch Start Date: 06/30/21 08:23 Batch Analyst: Khachitpongpanit, Suphawa

Batch Method: TO 15 LL Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	InitialPressure	FinalPressure	40CV101P 00140	40MXBFB 00001
BFB 140-51316/1		TO 15 LL		500 mL	500 mL	1	1		40 mL
CCVIS 140-51316/2		TO 15 LL		500 mL	500 mL	1	1	100 mL	
MB 140-51316/4		TO 15 LL		500 mL	500 mL	1	1		
140-23523-A-2	HSVE DEEP	TO 15 LL	T	70 mL	500 mL	1	1		
LCS 140-51316/1002		TO 15 LL		500 mL	500 mL	1	1	100 mL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	40MXISSUR 00001					
BFB 140-51316/1		TO 15 LL							
CCVIS 140-51316/2		TO 15 LL		40 mL					
MB 140-51316/4		TO 15 LL		40 mL					
140-23523-A-2	HSVE DEEP	TO 15 LL	T	40 mL					
LCS 140-51316/1002		TO 15 LL		40 mL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Summa Canister Dilution Worksheet

Client: New York State D.E.C.
Project/Site: Former Raeco Products 828107

Job No.: 140-23523-1

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Pressure Gauge ID	Date	Analyst Initals
140-23523-1	6	0.0	1.00	6.00	32.7	3.22	19.35		3.22	3.22	G5	06/23/21 14:37	BRS
140-23523-1	6	0.0	1.00	6.00	33.6	3.29	19.71		3.29	10.59	G5	06/23/21 15:02	BRS
140-23523-1	6	0.0	1.00	6.00	31.9	3.17	19.02		3.17	33.59	G5	06/23/21 15:21	BRS
140-23523-3	6	-1.7	0.94	5.66	33.9	3.31	19.84		3.51	3.51	G5	06/23/21 14:40	BRS
140-23523-3	6	0.0	1.00	6.00	32.4	3.20	19.22		3.20	11.23	G5	06/23/21 15:03	BRS
140-23523-3	6	0.0	1.00	6.00	34.5	3.35	20.08		3.35	37.59	G5	06/23/21 15:23	BRS

Formulae:

Preadjusted Volume (L) = (Preadjusted Pressure ("Hg) + 29.92 "Hg * Vol L) / 29.92 "Hg
Adjusted Volume (L) = (Adjusted Pressure (psig) + 14.7 psig * Vol L) / 14.7 psig
Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)
14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23326-1

SDG No.:

Client Sample ID: 11228 Lab Sample ID: 140-23326-1

Matrix: Air Lab File ID: 23293BK07.D

Analysis Method: TO 15 LL Date Collected: 06/01/2021 12:00

Sample wt/vol: 500(mL) Date Analyzed: 06/03/2021 02:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 50328 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.040	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
120-82-1	1,2,4-Trichlorobenzene	ND	*+	0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		0.16	
106-93-4	1,2-Dibromoethane	ND		0.080	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND	*+	0.080	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND	*+	0.080	
123-91-1	1,4-Dioxane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
90-12-0	1-Methylnaphthalene	ND		1.0	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-93-3	2-Butanone	ND		0.32	
95-49-8	2-Chlorotoluene	ND		0.16	
591-78-6	2-Hexanone	ND		0.20	
78-78-4	2-Methylbutane	ND		0.20	
91-57-6	2-Methylnaphthalene	ND		1.0	
107-83-5	2-Methylpentane	ND		0.080	
107-05-1	3-Chloroprene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23326-1

SDG No.:

Client Sample ID: 11228 Lab Sample ID: 140-23326-1

Matrix: Air Lab File ID: 23293BK07.D

Analysis Method: TO 15 LL Date Collected: 06/01/2021 12:00

Sample wt/vol: 500(mL) Date Analyzed: 06/03/2021 02:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 50328 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
67-64-1	Acetone	ND		2.0	
75-05-8	Acetonitrile	ND		0.40	
107-02-8	Acrolein	ND		0.40	
107-13-1	Acrylonitrile	ND		0.80	
98-83-9	Alpha Methyl Styrene	ND		0.16	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
75-27-4	Bromodichloromethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
74-83-9	Bromomethane	ND		0.080	
106-97-8	Butane	ND		0.16	
75-15-0	Carbon disulfide	ND		0.20	
56-23-5	Carbon tetrachloride	ND	*+	0.032	
108-90-7	Chlorobenzene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
67-66-3	Chloroform	ND		0.080	
74-87-3	Chloromethane	ND		0.20	
156-59-2	cis-1,2-Dichloroethene	ND		0.040	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
98-82-8	Cumene	ND		0.16	
110-82-7	Cyclohexane	ND		0.20	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
75-71-8	Dichlorodifluoromethane	ND		0.080	
64-17-5	Ethanol	ND		2.0	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
100-41-4	Ethylbenzene	ND		0.080	
87-68-3	Hexachlorobutadiene	ND		0.080	
110-54-3	Hexane	ND		0.20	
496-11-7	Indane	ND	*+	0.080	
95-13-6	Indene	ND		0.16	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23326-1

SDG No.:

Client Sample ID: 11228 Lab Sample ID: 140-23326-1

Matrix: Air Lab File ID: 23293BK07.D

Analysis Method: TO 15 LL Date Collected: 06/01/2021 12:00

Sample wt/vol: 500(mL) Date Analyzed: 06/03/2021 02:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 50328 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
108-87-2	Methylcyclohexane	ND		0.080	
75-09-2	Methylene Chloride	ND		0.40	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
91-20-3	Naphthalene	ND		0.20	
104-51-8	n-Butylbenzene	ND		0.16	
124-18-5	n-Decane	ND		0.40	
112-40-3	n-Dodecane	ND		0.40	
142-82-5	n-Heptane	ND		0.20	
111-84-2	n-Nonane	ND		0.20	
111-65-9	n-Octane	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
95-47-6	o-Xylene	ND		0.080	
99-87-6	p-Cymene	ND		0.080	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		1.0	
135-98-8	sec-Butylbenzene	ND		0.16	
100-42-5	Styrene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
98-06-6	tert-Butylbenzene	ND		0.20	
127-18-4	Tetrachloroethene	ND		0.040	
109-99-9	Tetrahydrofuran	ND		0.40	
110-02-1	Thiophene	ND		0.080	
108-88-3	Toluene	ND		0.12	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
79-01-6	Trichloroethene	ND		0.036	
75-69-4	Trichlorofluoromethane	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
75-01-4	Vinyl chloride	ND		0.040	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-23326-1

SDG No.:

Client Sample ID: 11228 Lab Sample ID: 140-23326-1

Matrix: Air Lab File ID: 23293BK07.D

Analysis Method: TO 15 LL Date Collected: 06/01/2021 12:00

Sample wt/vol: 500(mL) Date Analyzed: 06/03/2021 02:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 50328 Units: ppb v/v

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
488-23-3	1,2,3,4-Tetramethylbenzene TIC		ND		
527-53-7	1,2,3,5-Tetramethylbenzene TIC		ND		
934-80-5	1,2-Dimethyl-4-Ethylbenzene TIC		ND		
872-55-9	2-Ethylthiophene TIC		ND		
554-14-3	2-Methylthiophene TIC		ND		
616-44-4	3-Methylthiophene TIC		ND		
95-15-8	Benzo(b)thiophene TIC		ND		

Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MH\20210601-19427.b\23293BK07.D
Lims ID: 140-23326-A-1
Client ID: 11228
Sample Type: Client
Inject. Date: 03-Jun-2021 02:34:30 ALS Bottle#: 14 Worklist Smp#: 23
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0019427-023
Misc. Info.: 11678
Operator ID: HMT Instrument ID: MH

Method: \\chromfs\Knoxville\ChromData\MH\20210601-19427.b\MH_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 03-Jun-2021 16:02:18 Calib Date: 22-May-2021 17:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\MH\20210521-19329.b\HE22IC07.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: CTX1624

First Level Reviewer: khachitpongpanits Date: 03-Jun-2021 14:22:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.353	9.353	0.000	89	135787	4.80	
* 2 1,4-Difluorobenzene	114	11.534	11.529	0.005	95	543634	4.80	
* 3 Chlorobenzene-d5 (IS)	117	16.222	16.222	0.000	90	441536	4.80	
$ 4 4-Bromofluorobenzene (Surr)	95	17.865	17.891	-0.026	94	346363	4.54	
7 Propene	41	3.869	3.859	0.010	11	864	0.0355	7
51 Benzene	78	11.012	11.002	0.010	1	829	0.0111	
59 Dibromomethane	93	12.325	12.330	-0.005	10	620	0.0139	
74 Chlorobenzene	112	16.258	16.268	-0.010	1	999	0.0110	
97 4-Isopropyltoluene	119	19.457	19.468	-0.011	1	278	0.0553	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

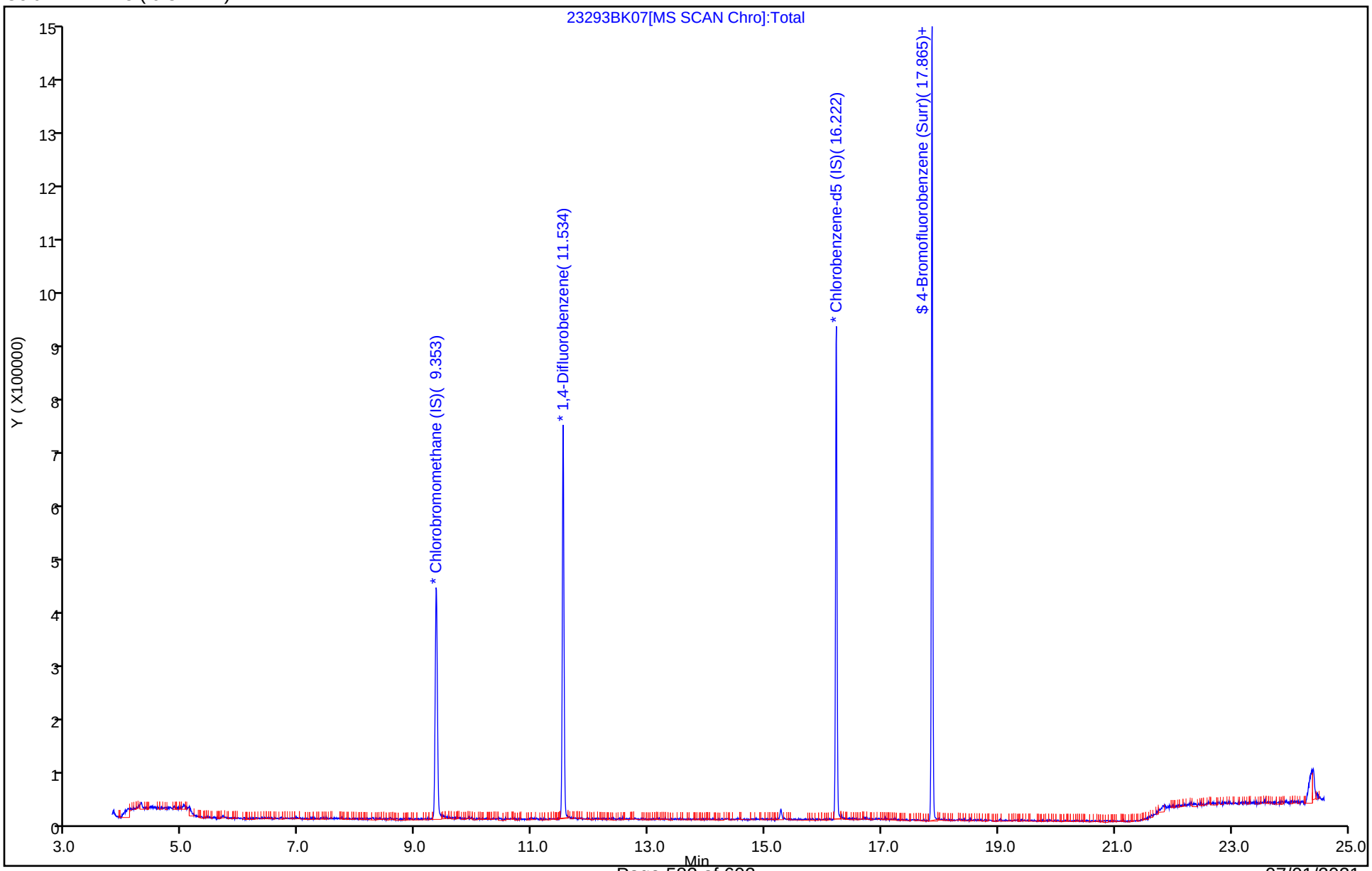
40MXISSUR_00001 Amount Added: 40.00 Units: mL Run Reagent

Report Date: 03-Jun-2021 06:17:33 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MH\20210601-19427.b\23293BK07.D				
Injection Date:	03-Jun-2021 02:34:30	Instrument ID:	MH	Operator ID:	HMT
Lims ID:	140-23326-A-1	Lab Sample ID:	140-23326-1	Worklist Smp#:	23
Client ID:	11228				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MH_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



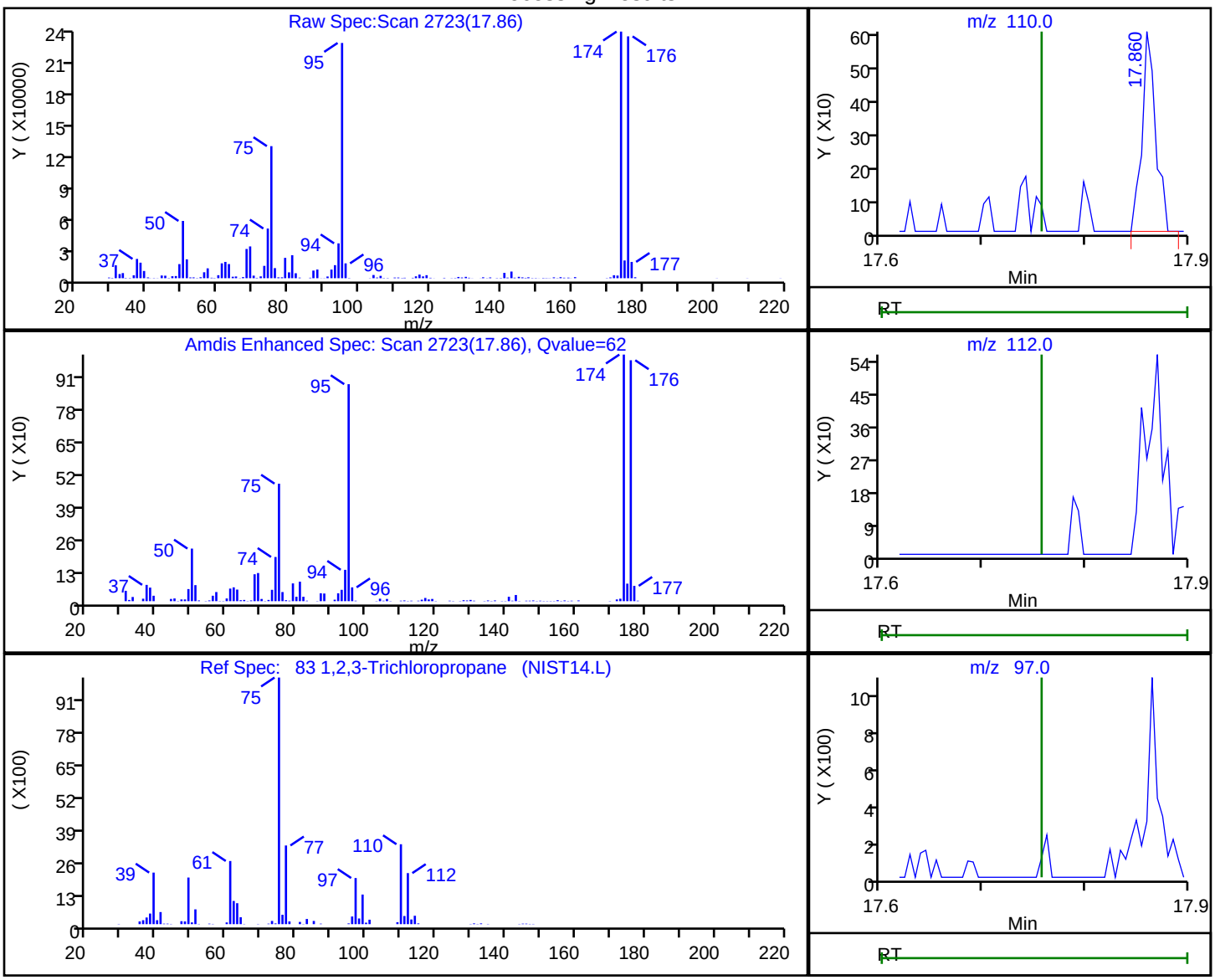
User Disabled Compound Report

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MH\20210601-19427.b\23293BK07.D				
Injection Date:	03-Jun-2021 02:34:30	Instrument ID:	MH		
Lims ID:	140-23326-A-1	Lab Sample ID:	140-23326-1		
Client ID:	11228				
Operator ID:	HMT	ALS Bottle#:	14	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MH_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

83 1,2,3-Trichloropropane, CAS: 96-18-4

Processing Results



RT	Mass	Response	Amount
17.86	110.00	558	0.027696
17.87	112.00	796	
17.87	97.00	1113	

Reviewer: khachitpongpanits, 03-Jun-2021 14:22:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

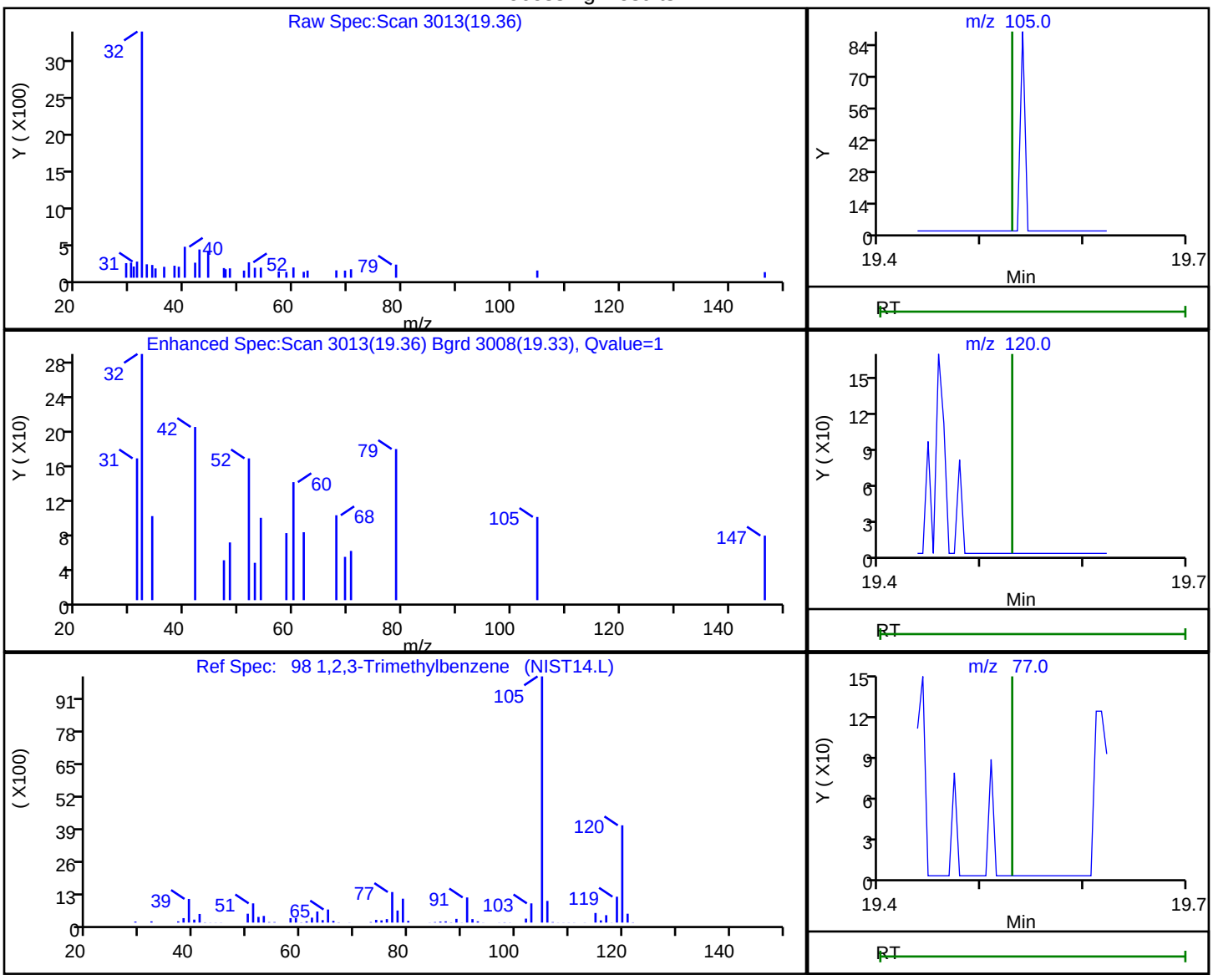
User Disabled Compound Report

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MH\20210601-19427.b\23293BK07.D				
Injection Date:	03-Jun-2021 02:34:30	Instrument ID:	MH		
Lims ID:	140-23326-A-1	Lab Sample ID:	140-23326-1		
Client ID:	11228				
Operator ID:	HMT	ALS Bottle#:	14	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MH_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

98 1,2,3-Trimethylbenzene, CAS: 526-73-8

Processing Results



RT	Mass	Response	Amount
19.36	105.00	57	0.049910
19.53	120.00	0	
19.53	77.00	0	

Reviewer: khachitpongpanits, 03-Jun-2021 14:22:47

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

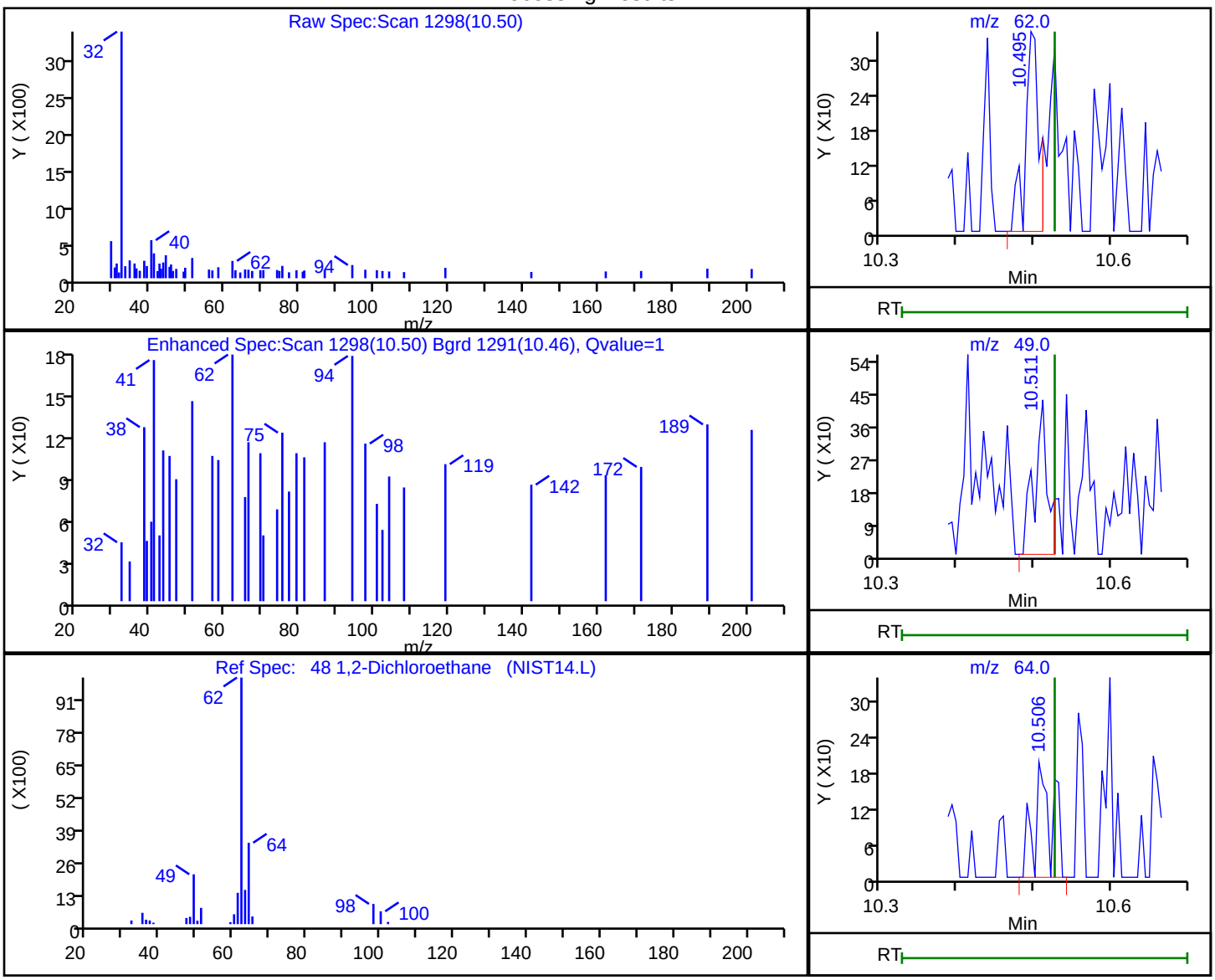
User Disabled Compound Report

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MH\20210601-19427.b\23293BK07.D				
Injection Date:	03-Jun-2021 02:34:30	Instrument ID:	MH		
Lims ID:	140-23326-A-1	Lab Sample ID:	140-23326-1		
Client ID:	11228				
Operator ID:	HMT	ALS Bottle#:	14	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MH_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

48 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
10.50	62.00	425	0.010248
10.51	49.00	514	
10.51	64.00	319	

Reviewer: khachitpongpanits, 03-Jun-2021 14:22:16

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

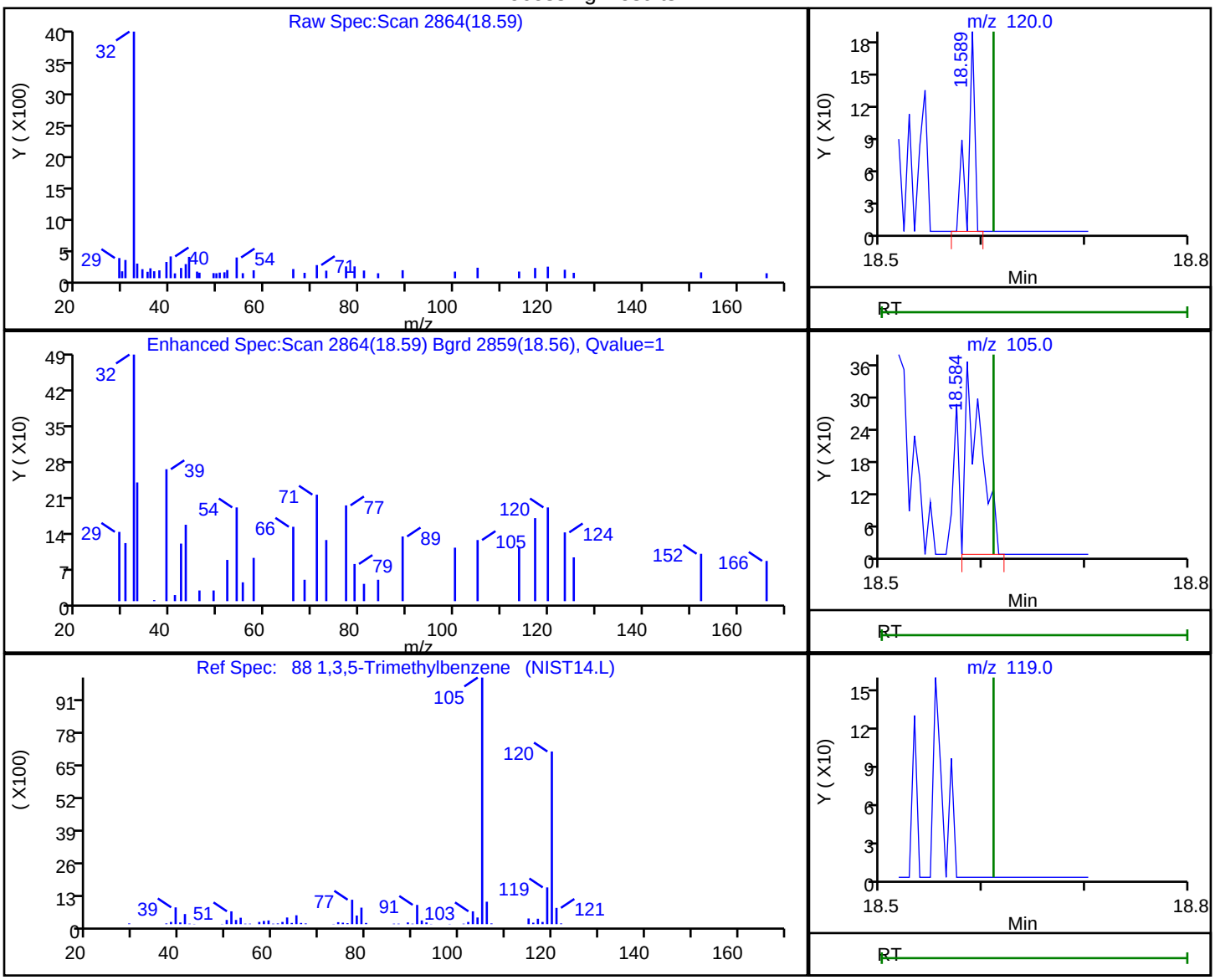
User Disabled Compound Report

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MH\20210601-19427.b\23293BK07.D				
Injection Date:	03-Jun-2021 02:34:30	Instrument ID:	MH		
Lims ID:	140-23326-A-1	Lab Sample ID:	140-23326-1		
Client ID:	11228				
Operator ID:	HMT	ALS Bottle#:	14	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MH_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

88 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



RT	Mass	Response	Amount
18.59	120.00	83	0.063194
18.58	105.00	375	
18.61	119.00	0	

Reviewer: khachitpongpanits, 03-Jun-2021 14:22:42

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

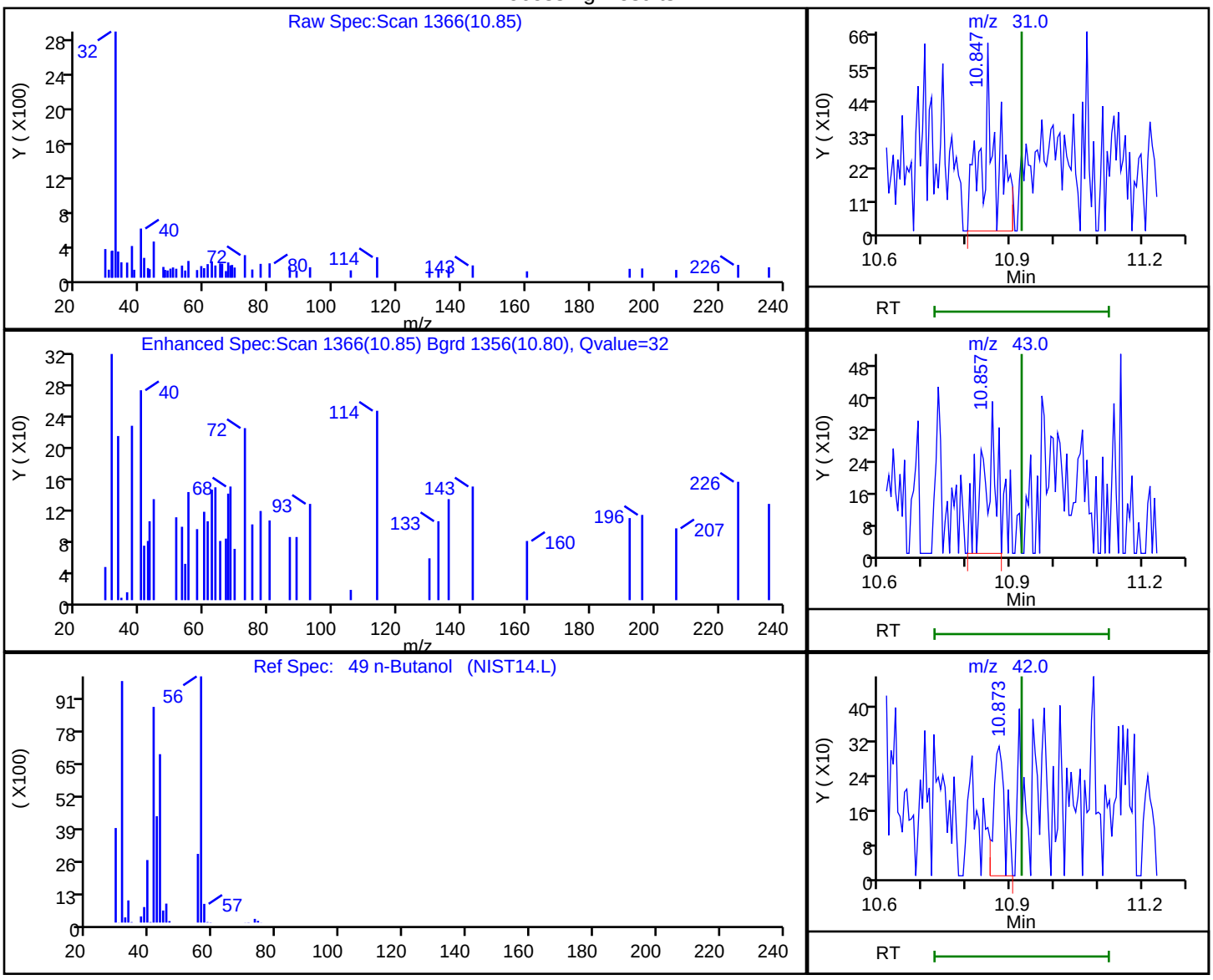
User Disabled Compound Report

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MH\20210601-19427.b\23293BK07.D				
Injection Date:	03-Jun-2021 02:34:30	Instrument ID:	MH		
Lims ID:	140-23326-A-1	Lab Sample ID:	140-23326-1		
Client ID:	11228				
Operator ID:	HMT	ALS Bottle#:	14	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MH_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

49 n-Butanol, CAS: 71-36-3

Processing Results



RT	Mass	Response	Amount
10.85	31.00	1425	0.155242
10.86	43.00	751	
10.87	42.00	541	

Reviewer: khachitpongpanits, 03-Jun-2021 14:22:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

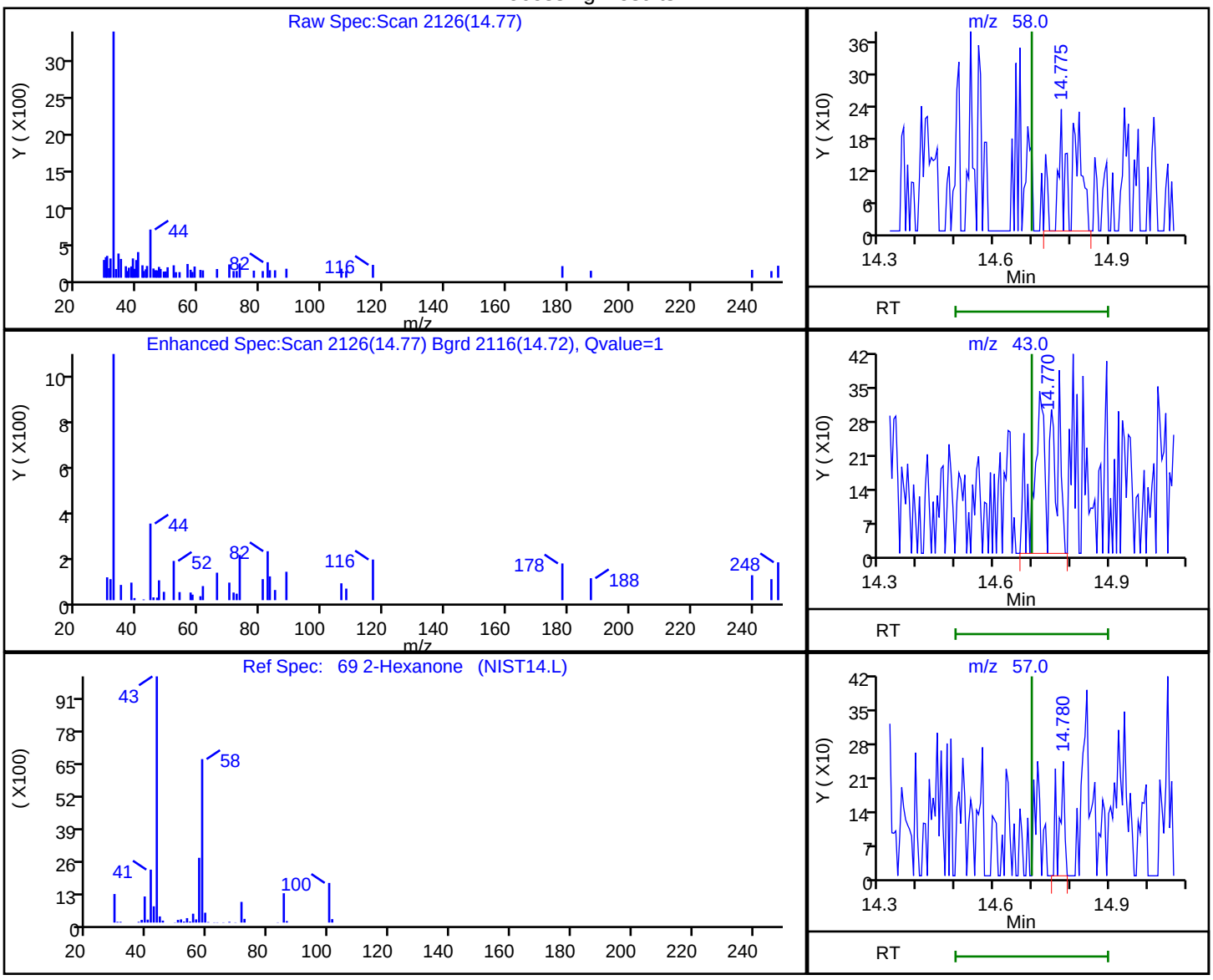
User Disabled Compound Report

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MH\20210601-19427.b\23293BK07.D				
Injection Date:	03-Jun-2021 02:34:30	Instrument ID:	MH		
Lims ID:	140-23326-A-1	Lab Sample ID:	140-23326-1		
Client ID:	11228				
Operator ID:	HMT	ALS Bottle#:	14	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MH_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

69 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
14.77	58.00	644	0.027314
14.77	43.00	1186	
14.78	57.00	237	

Reviewer: khachitpongpanits, 03-Jun-2021 14:22:28

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

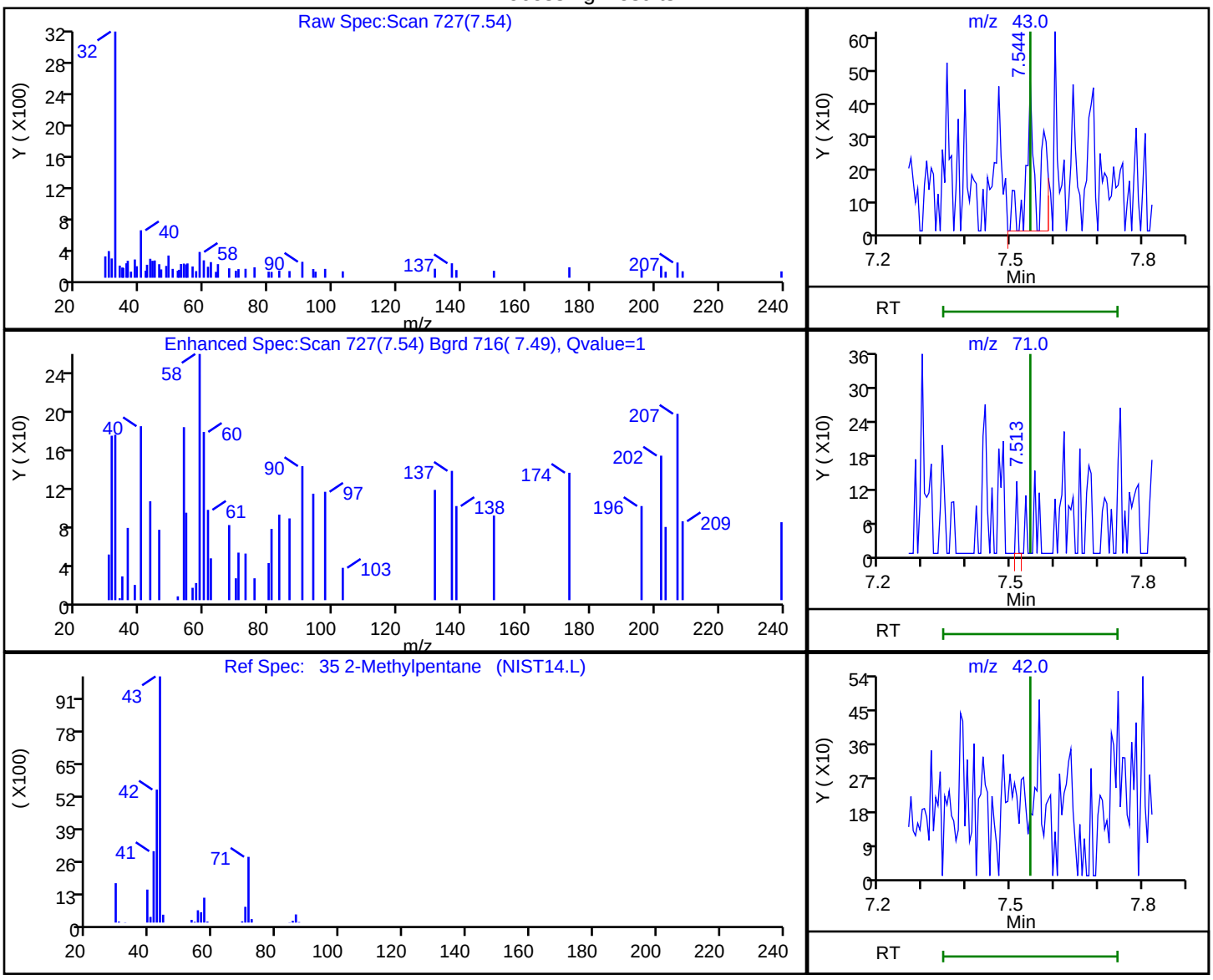
User Disabled Compound Report

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MH\20210601-19427.b\23293BK07.D				
Injection Date:	03-Jun-2021 02:34:30	Instrument ID:	MH		
Lims ID:	140-23326-A-1	Lab Sample ID:	140-23326-1		
Client ID:	11228				
Operator ID:	HMT	ALS Bottle#:	14	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MH_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

35 2-Methylpentane, CAS: 107-83-5

Processing Results



RT	Mass	Response	Amount
7.54	43.00	812	0.015120
7.51	71.00	39	
7.54	42.00	0	

Reviewer: khachitpongpanits, 03-Jun-2021 14:22:10

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

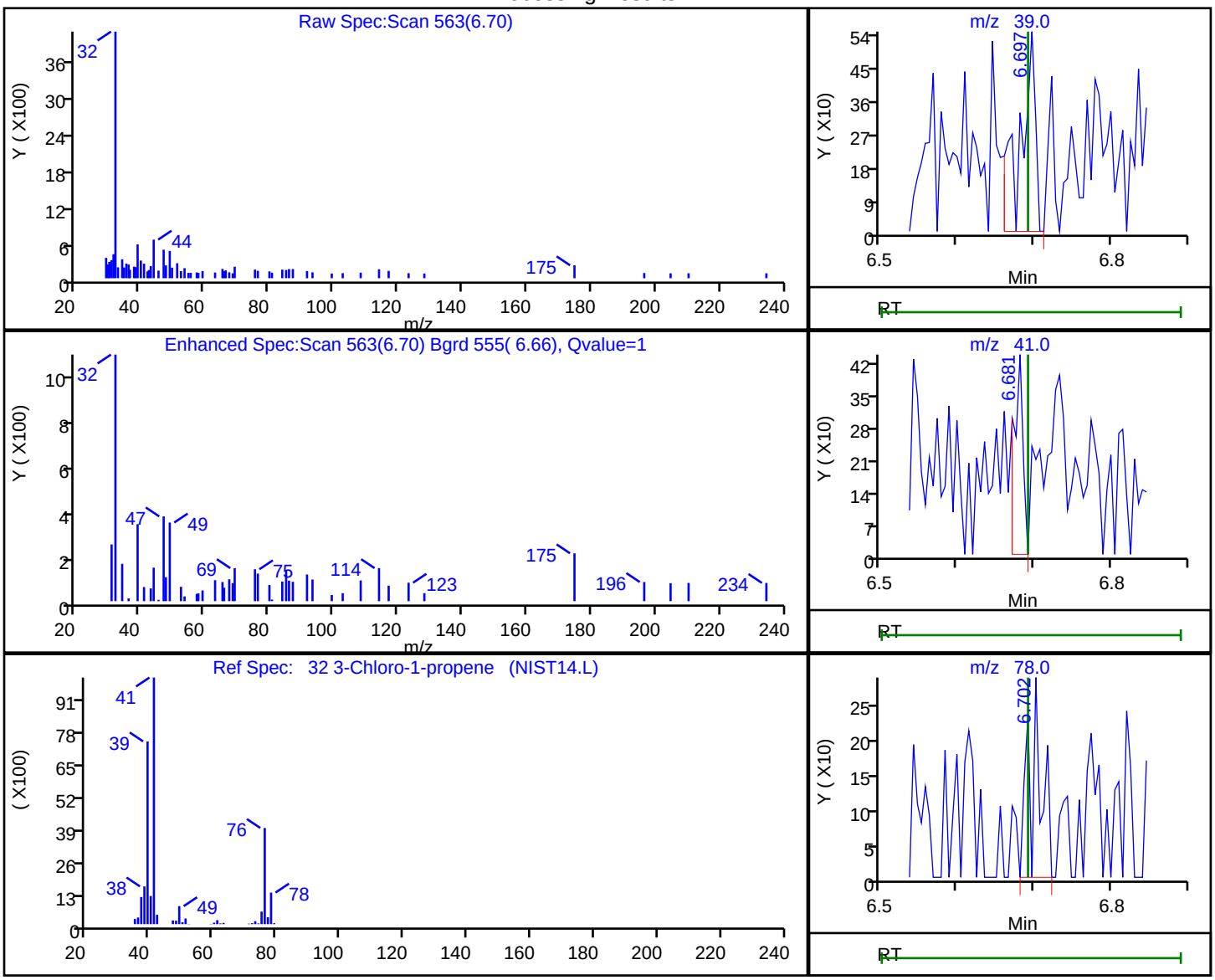
User Disabled Compound Report

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MH\20210601-19427.b\23293BK07.D				
Injection Date:	03-Jun-2021 02:34:30	Instrument ID:	MH		
Lims ID:	140-23326-A-1	Lab Sample ID:	140-23326-1		
Client ID:	11228				
Operator ID:	HMT	ALS Bottle#:	14	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MH_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

32 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
6.70	39.00	756	0.031148
6.68	41.00	361	
6.70	78.00	315	

Reviewer: khachitpongpanits, 03-Jun-2021 14:22:05

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

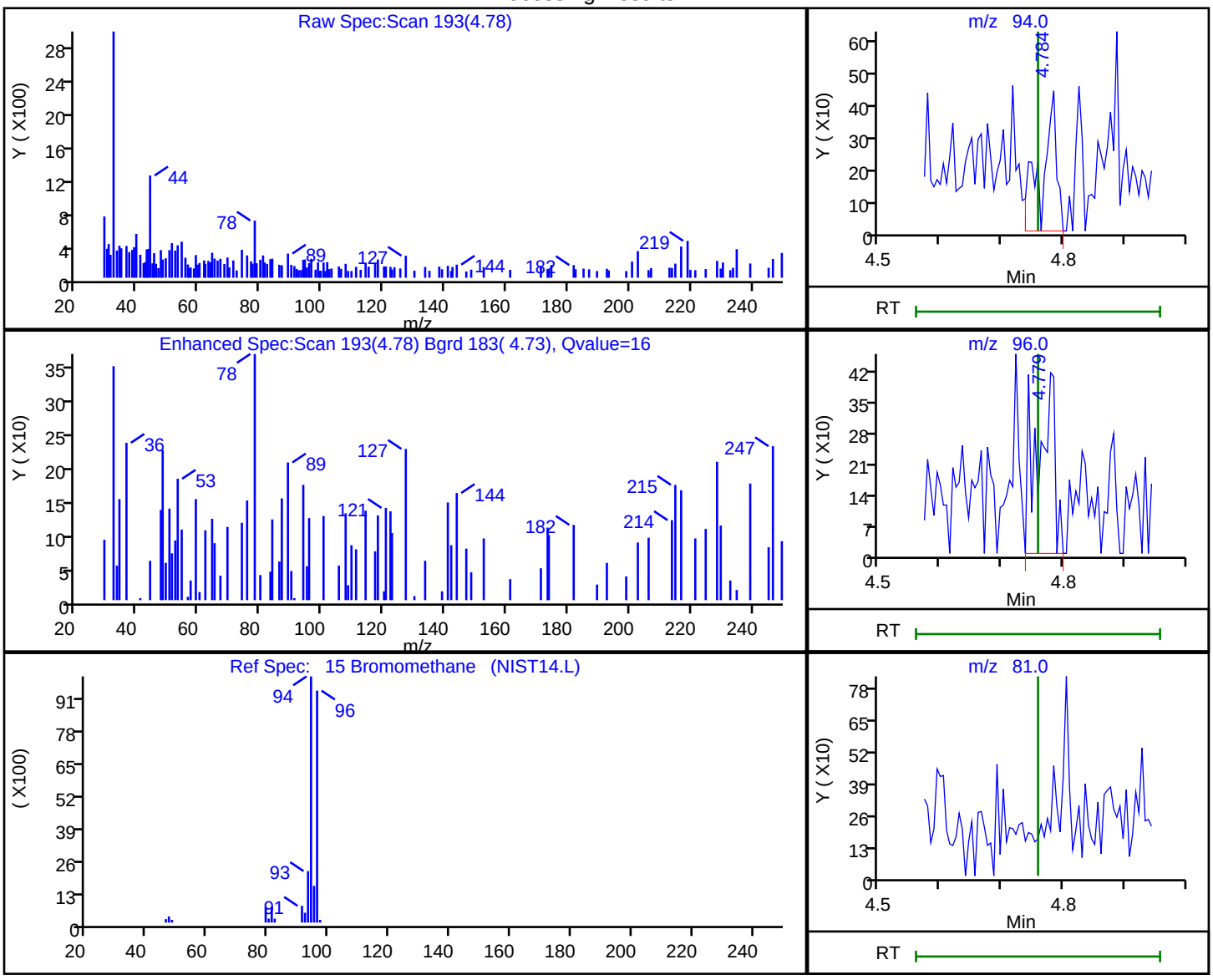
User Disabled Compound Report

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MH\20210601-19427.b\23293BK07.D				
Injection Date:	03-Jun-2021 02:34:30	Instrument ID:	MH		
Lims ID:	140-23326-A-1	Lab Sample ID:	140-23326-1		
Client ID:	11228				
Operator ID:	HMT	ALS Bottle#:	14	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MH_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

15 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
4.78	94.00	741	0.021377
4.78	96.00	804	
4.76	81.00	0	

Reviewer: khachitpongpanits, 03-Jun-2021 14:21:57

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

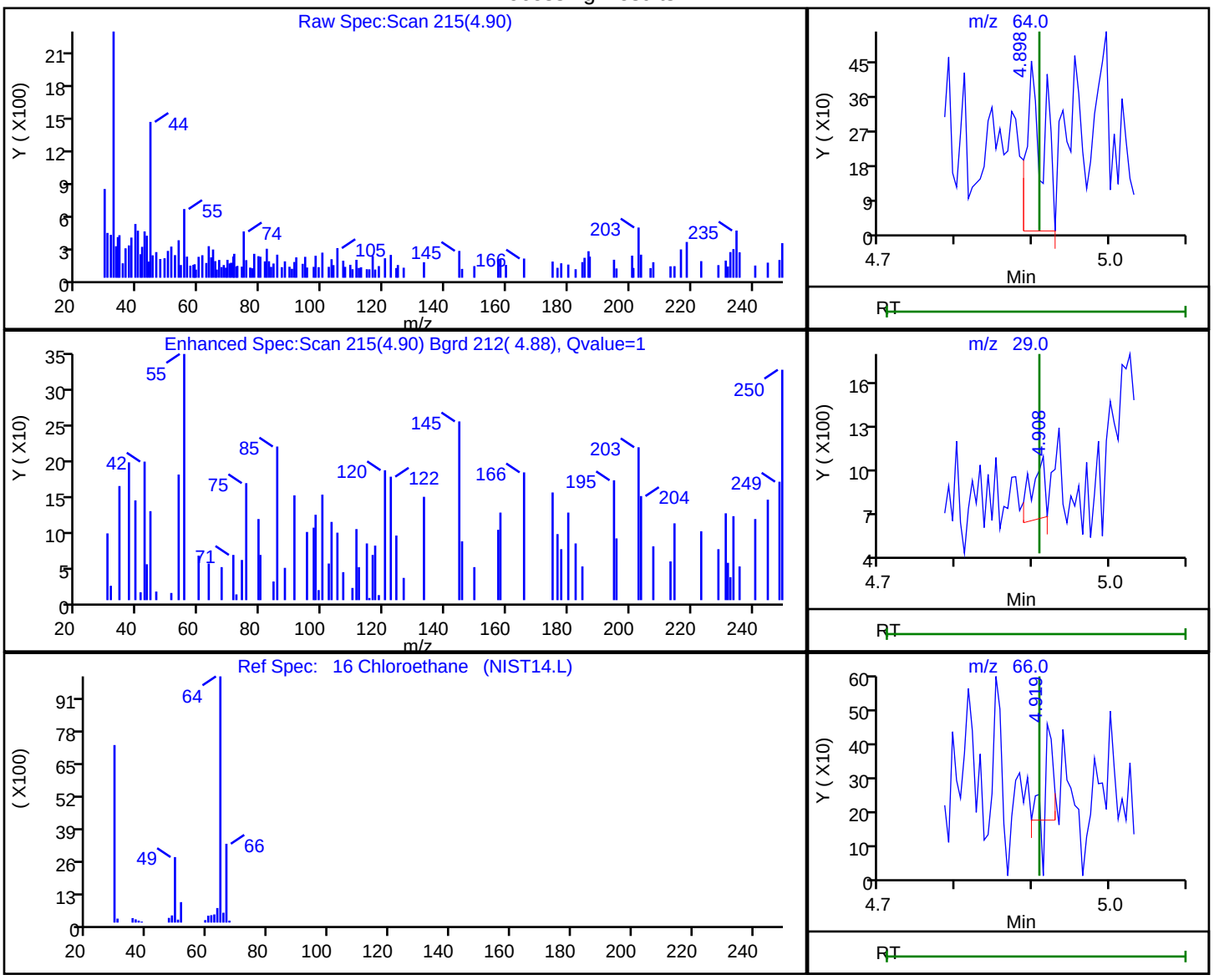
User Disabled Compound Report

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MH\20210601-19427.b\23293BK07.D				
Injection Date:	03-Jun-2021 02:34:30	Instrument ID:	MH		
Lims ID:	140-23326-A-1	Lab Sample ID:	140-23326-1		
Client ID:	11228				
Operator ID:	HMT	ALS Bottle#:	14	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MH_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

16 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
4.90	64.00	665	0.055248
4.91	29.00	483	
4.92	66.00	182	

Reviewer: khachitpongpanits, 03-Jun-2021 14:21:59

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

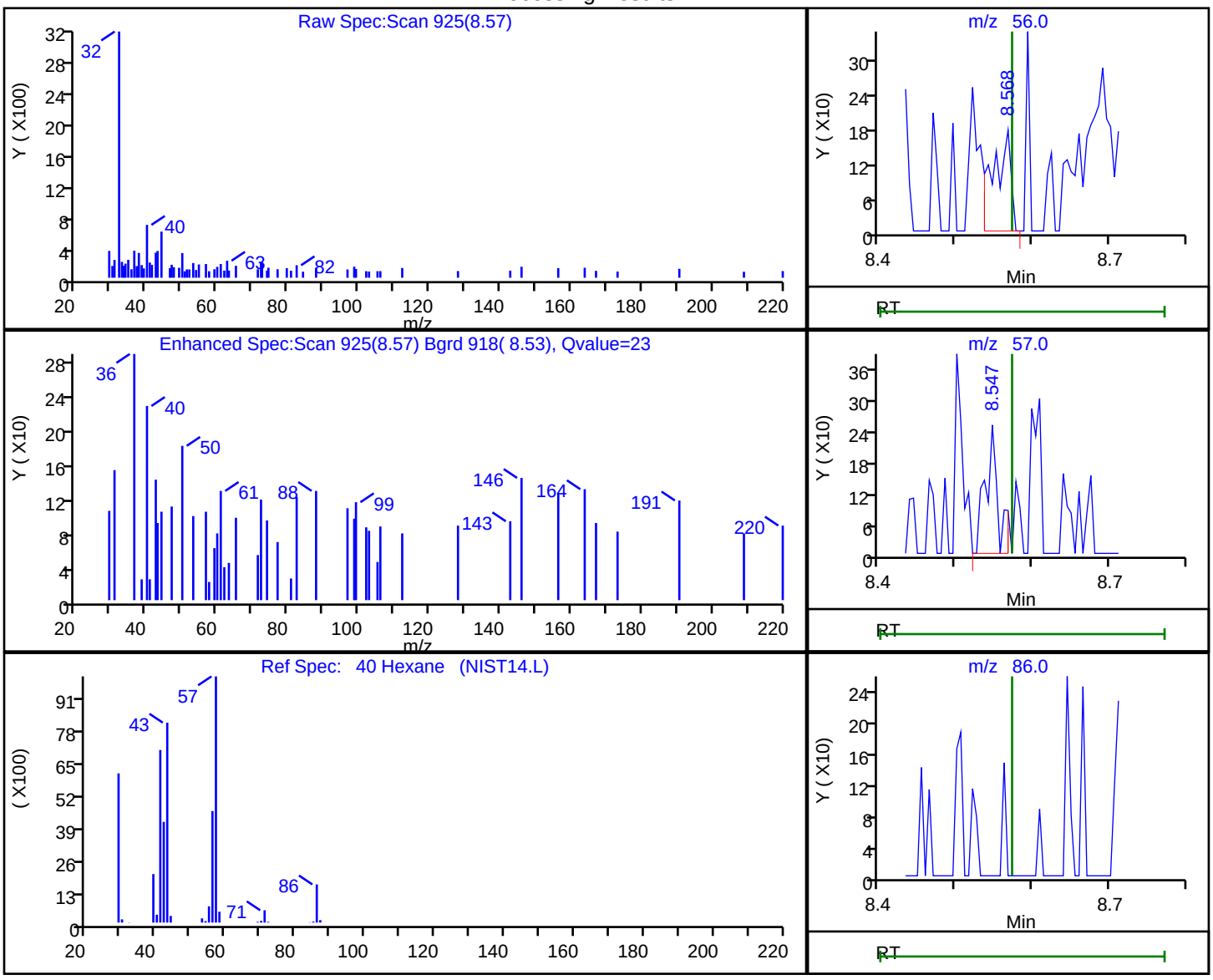
User Disabled Compound Report

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MH\20210601-19427.b\23293BK07.D				
Injection Date:	03-Jun-2021 02:34:30	Instrument ID:	MH		
Lims ID:	140-23326-A-1	Lab Sample ID:	140-23326-1		
Client ID:	11228				
Operator ID:	HMT	ALS Bottle#:	14	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MH_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3

Processing Results



RT	Mass	Response	Amount
8.57	56.00	279	0.014644
8.55	57.00	290	
8.57	86.00	0	

Reviewer: khachitpongpanits, 03-Jun-2021 14:22:13

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

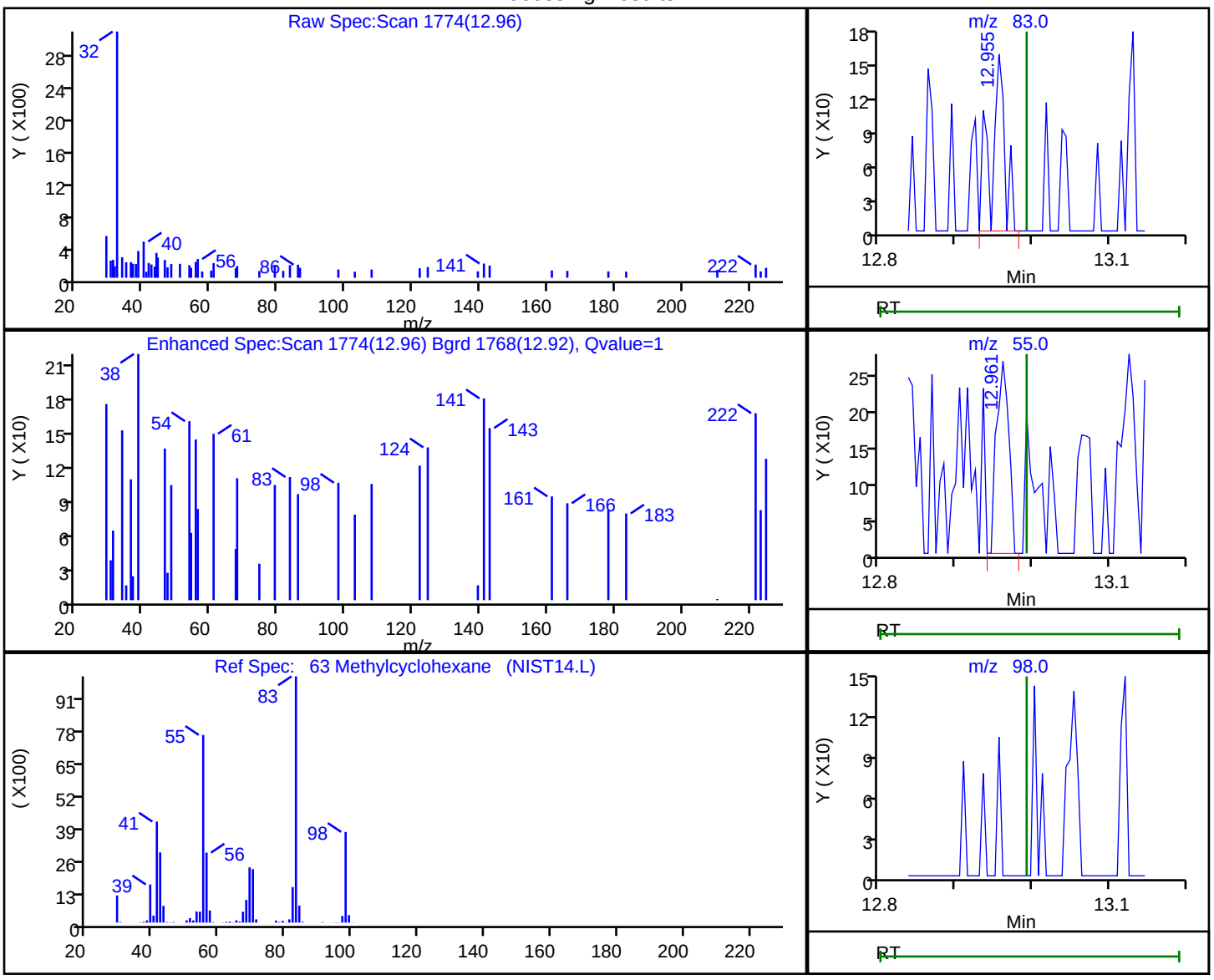
User Disabled Compound Report

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MH\20210601-19427.b\23293BK07.D				
Injection Date:	03-Jun-2021 02:34:30	Instrument ID:	MH		
Lims ID:	140-23326-A-1	Lab Sample ID:	140-23326-1		
Client ID:	11228				
Operator ID:	HMT	ALS Bottle#:	14	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MH_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

63 Methylcyclohexane, CAS: 108-87-2

Processing Results



RT	Mass	Response	Amount
12.96	83.00	197	0.082126
12.96	55.00	295	
12.99	98.00	0	

Reviewer: khachitpongpanits, 03-Jun-2021 14:22:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

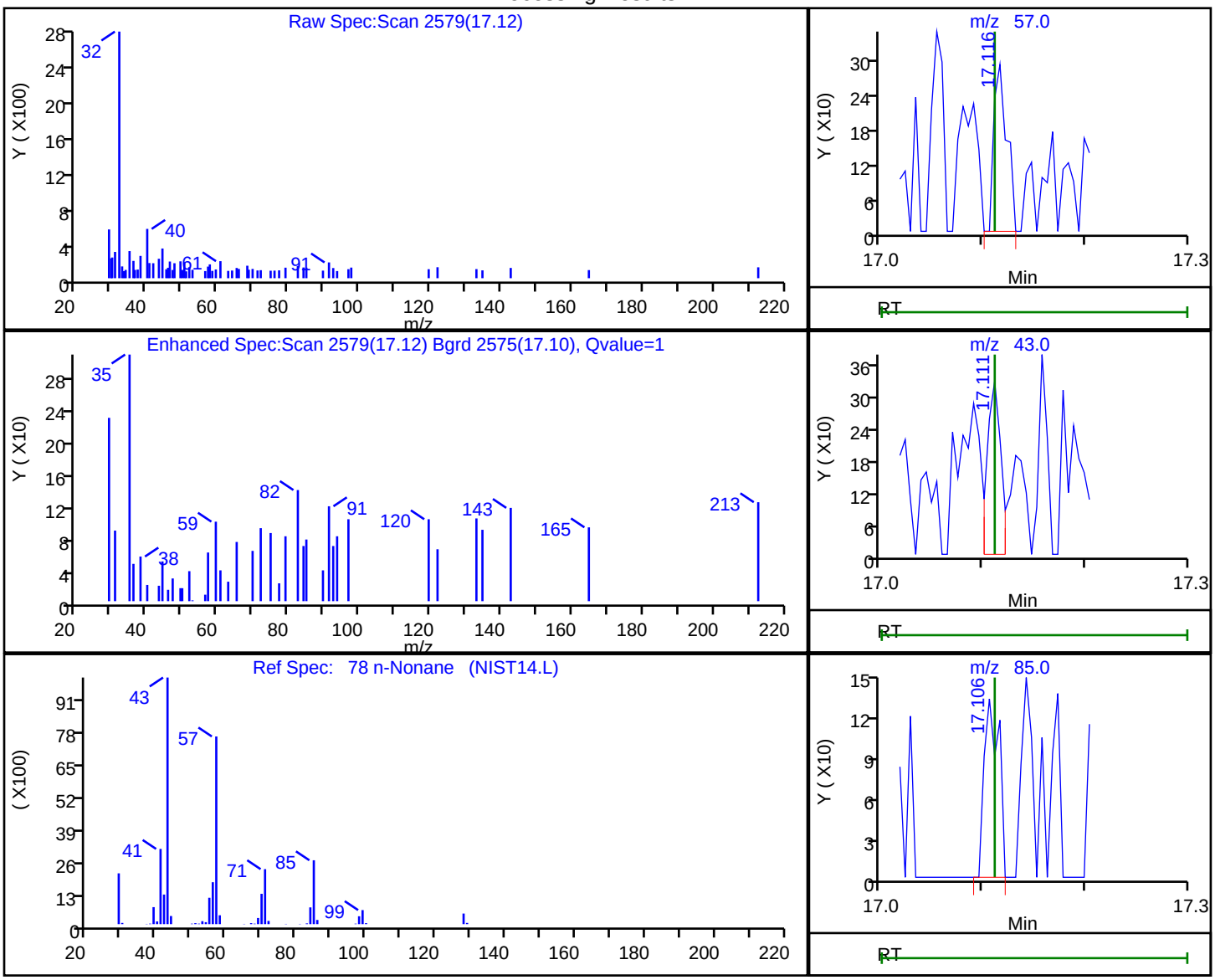
User Disabled Compound Report

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MH\20210601-19427.b\23293BK07.D				
Injection Date:	03-Jun-2021 02:34:30	Instrument ID:	MH		
Lims ID:	140-23326-A-1	Lab Sample ID:	140-23326-1		
Client ID:	11228				
Operator ID:	HMT	ALS Bottle#:	14	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MH_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

78 n-Nonane, CAS: 111-84-2

Processing Results



RT	Mass	Response	Amount
17.12	57.00	254	0.113025
17.11	43.00	306	
17.11	85.00	135	

Reviewer: khachitpongpanits, 03-Jun-2021 14:22:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

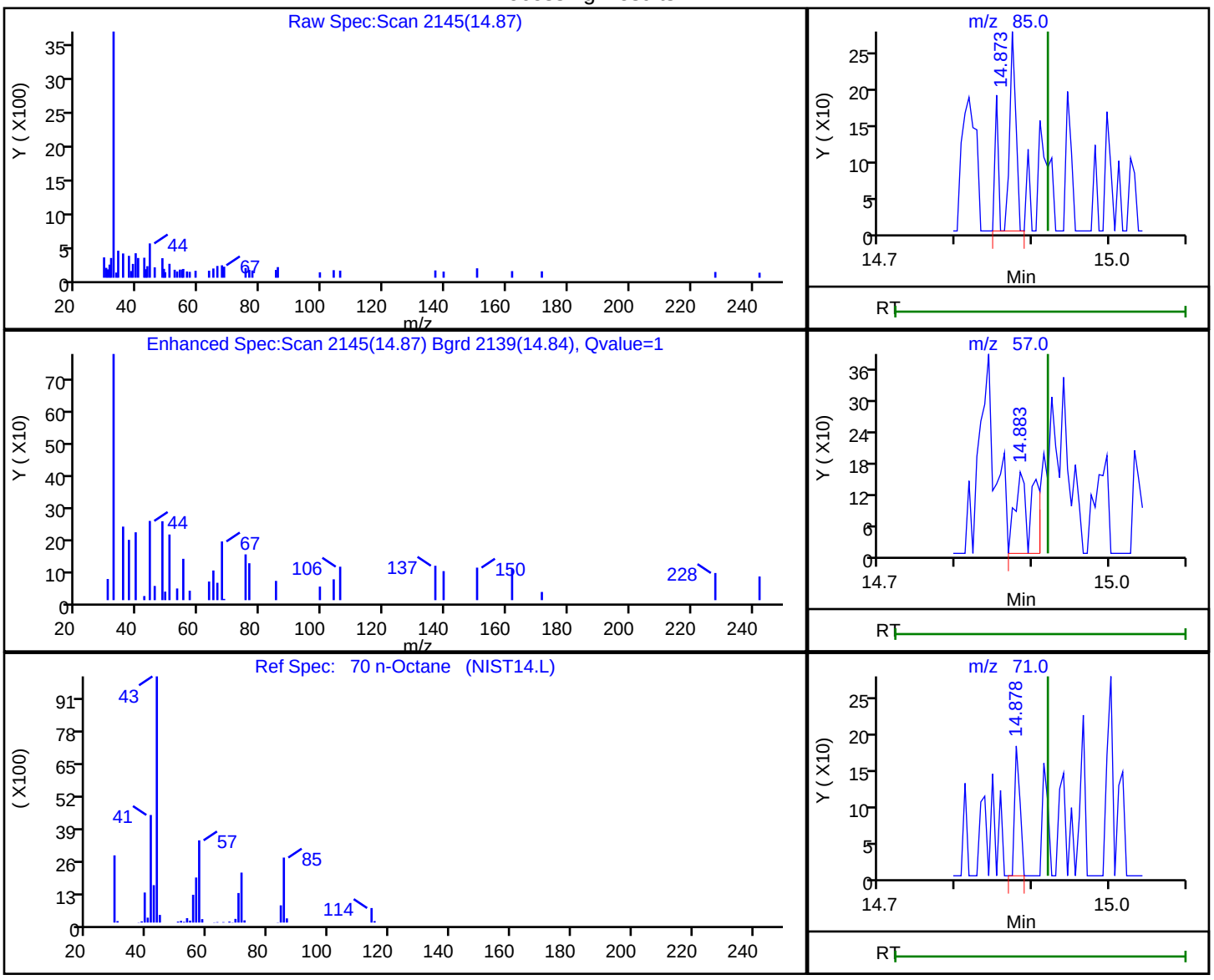
User Disabled Compound Report

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MH\20210601-19427.b\23293BK07.D				
Injection Date:	03-Jun-2021 02:34:30	Instrument ID:	MH		
Lims ID:	140-23326-A-1	Lab Sample ID:	140-23326-1		
Client ID:	11228				
Operator ID:	HMT	ALS Bottle#:	14	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MH_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

70 n-Octane, CAS: 111-65-9

Processing Results



RT	Mass	Response	Amount
14.87	85.00	212	0.113117
14.88	57.00	264	
14.88	71.00	87	

Reviewer: khachitpongpanits, 03-Jun-2021 14:22:30

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

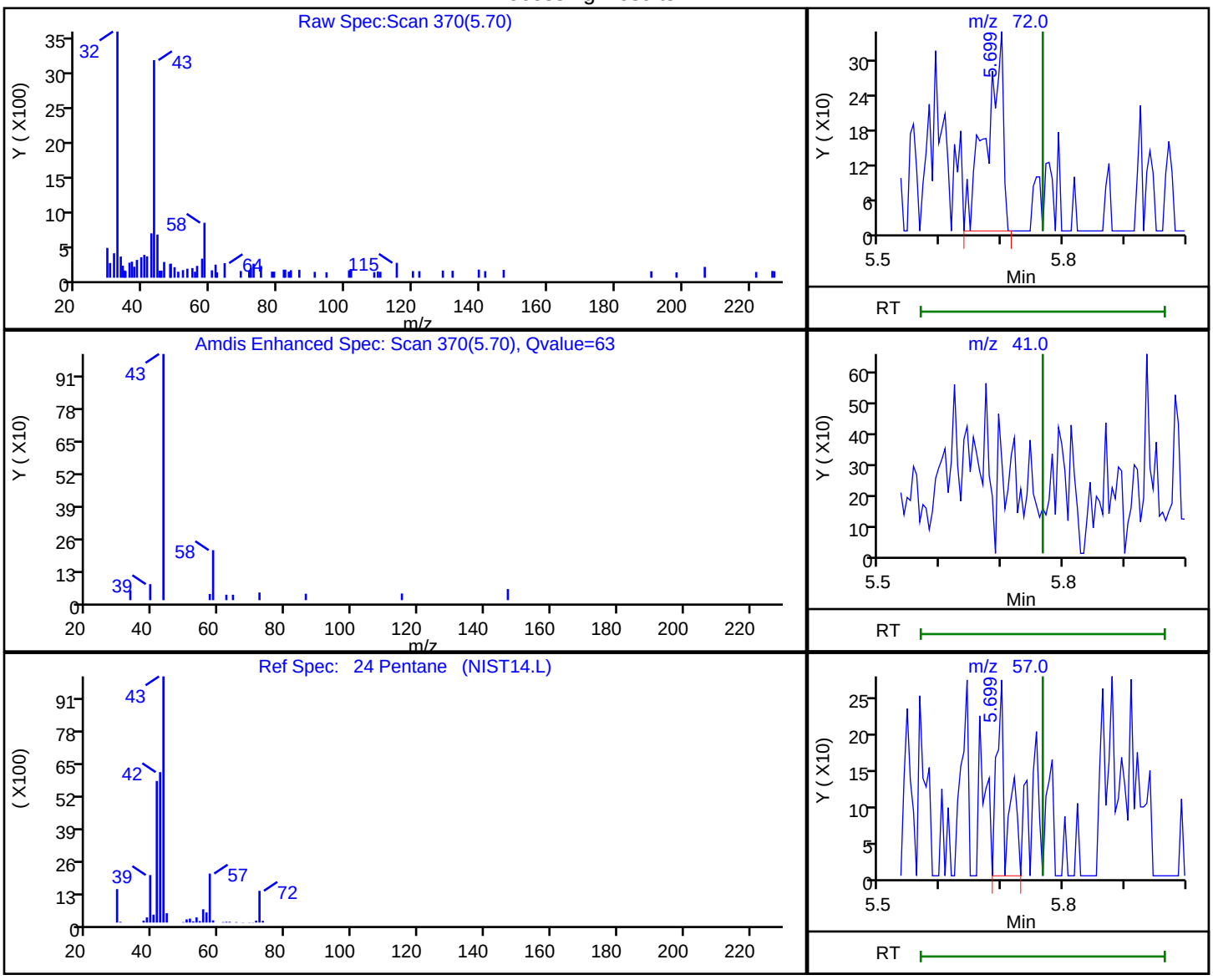
User Disabled Compound Report

Eurofins TestAmerica, Knoxville

Data File:	\\chromfs\Knoxville\ChromData\MH\20210601-19427.b\23293BK07.D				
Injection Date:	03-Jun-2021 02:34:30	Instrument ID:	MH		
Lims ID:	140-23326-A-1	Lab Sample ID:	140-23326-1		
Client ID:	11228				
Operator ID:	HMT	ALS Bottle#:	14	Worklist Smp#:	23
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	MH_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

24 Pentane, CAS: 109-66-0

Processing Results



RT	Mass	Response	Amount
5.70	72.00	657	0.209783
5.77	41.00	0	
5.70	57.00	317	

Reviewer: khachitpongpanits, 03-Jun-2021 14:22:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Shipping and Receiving Documents

23523

Eurofins TestAmerica, Knoxville
5815 Middlebrook Pike

Knoxville, TN 37921-5947
phone 865.291.3000 fax 865.584.4315

Canister Samples Chain of Custody Record

eurofins | Environment Testing TestAmerica

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact Information	**Client Project Manager:** Mark Wright	**Samples Collected By:** Keith Gonda Rillo
Company Name: HRP Assoc Inc	**Phone:** 860 674-9570 x 1415	COC No: 1 of 1 COCs
Address: 197 Scott Swamp Rd	**Email:** mark.wright@hrpassociates.com	TALS Project #:
City/State/Zip: Farmington, CT 06032	**Site Contact:**	**For Lab Use Only:**
Phone: 860-674-9570	**Tel/Fax**	Walk-in Client:
FAX: 860-674-9624	**Analysis Turnaround Time**	Lab Sampling:
Project Name: NYDEC - Ravco	Standard (Specific): 5-7 day	Job / SDG No.:
Site/Location: Rochester, NY	Rush (Specifiy):	(See below for Add'l Items)
P O #		

Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14/15 (Standard / Low Level)	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
HSVE Shallow	6/15/21	2:42	6/15/21	2:42	-28.8	0	Grab	3400[illegible]78	X											X			
HSVE Deep	6/15/21	4:59	6/15/21	4:59	-28.8	0	↓	3400[illegible]54	X											X			
SVE-1	6/16/21	10:12	6/16/21	10:12	-28.7	0	↓	7754	X											X			

140-23523 Chain of Custody

Temperature (Fahrenheit)	Interior	Ambient
Start		
Stop		59

Pressure (inches of Hg)	Interior	Ambient
Start		
Stop		749.5 mmHg

Received @ ambient, 16.X
FedEx Pak Courtesy seal intact
tr# [illegible] 1474 3242
KW 6/18/21

Special Instructions/QC Requirements & Comments:
NYDEC project Rochester, NY

Samples Shipped by:	**Date / Time:** 6/14/21 7:45	**Samples Received by:** ETA	6/18/21 0910
Samples Relinquished by:	**Date / Time:**	**Received by:**	
Relinquished by:	**Date / Time:**	**Received by:**	
Lab Use Only: **Shipper Name:**	**Opened by:**	**Condition:**	5 canes, 5 gauges

Form No. CA-C-WI-003, Rev. 2.23, dated 5/4/2020

07/01/2021

Loc: 140
23523

EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST **Log In Number:**

Review Items	Yes	No	NA	If No, what was the problem?
1. Are the shipping containers intact?	✓			☐ **Containers, Broken**
2. Were ambient air containers received intact?			✓	☑ Checked in lab
3. The coolers/containers custody seal if present, is it intact?	✓			☐ Yes ☐ NA
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID :_____ Correction factor: _____			✓	☐ **Cooler Out of Temp, Client Contacted, Proceed/Cancel** ☐ **Cooler Out of Temp, Same Day Receipt**
5. Were all of the sample containers received intact?	✓			☐ **Containers, Broken**
6. Were samples received in appropriate containers?	✓			☐ **Containers, Improper; Client Contacted; Proceed/Cancel**
7. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **COC & Samples Do Not Match** ☐ **COC Incorrect/Incomplete** ☐ **COC Not Received**
8. Were all of the samples listed on the COC received?	✓			☐ **Sample Received, Not on COC** ☐ **Sample on COC, Not Received**
9. Is the date/time of sample collection noted?	✓			☐ **COC; No Date/Time; Client Contacted**
10. Was the sampler identified on the COC?	✓			☐ **Sampler Not Listed on COC**
11. Is the client and project name/# identified?	✓			☐ **COC Incorrect/Incomplete**
12. Are tests/parameters listed for each sample?	✓			☐ **COC No tests on COC**
13. Is the matrix of the samples noted?	✓			☐ **COC Incorrect/Incomplete**
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ **COC Incorrect/Incomplete**
15. Were samples received within holding time?	✓			☐ **Holding Time - Receipt**
16. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **pH Adjusted, pH Included (See box 16A)** ☐ **Incorrect Preservative**
17. Were VOA samples received without headspace?			✓	☐ **Headspace (VOA only)**
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:_____			✓	☐ **Residual Chlorine**
19. For 1613B water samples is pH<9?			✓	☐ If no, notify lab to adjust
20. For rad samples was sample activity info. Provided?			✓	☐ Project missing info

Comments/Actions Taken

Labeling Verified by: **Date:**

pH test strip lot number:

	Box 16A: pH Preservation	Box 18A: Residual Chlorine
Preservative:		
Lot Number:		
Exp Date:		
Analyst:		
Date:		
Time:		

Project #: _____ PM Instructions: _____

Sample Receiving Associate: Kelly Date: 6/18/21

QA026R32.doc, 062719

TestAmerica Knoxville - Air Canister Initial Pressure Check

Gauge ID: G5
Date: 6/23/2021

Analyst	Sample ID	Asset #	Cleaning Job	Cert	Size (L)	Pressure @ Receipt (-in Hg or +psig)	Time	Comments
BRS	140-23523-a-1	34000178	140-23326-	B	6	0.0	8:53	
BRS	140-23523-a-2	34000554	140-23326-	B	6	-3.6	8:54	
BRS	140-23523-a-3	7759	140-23326-	B	6	-1.6	8:55	

□ Receiving –Air Can –Calve Open (NCM #_____)
□ Air - Can P -24 to -25 " - Flow Contr. Works (NCM#_____)
□ Air - Can P -24 to -25 " - Flow Contr. Faulty (NCM#_____)
□ Air - Can P Out -26" - Flow Contr. Works (NCM#_____)
□ Air - Can P Out -26" - Flow Contr. Faulty (NCM#_____)
□ Air - Can P Low -24 to -25 " - Grab Sample (NCM#_____)
□ Air - Can P Low -26 "- Grab Sample (NCM#_____)

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-182715-1
Client Project/Site: Former Raeco Products #828107

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Brianna Scharf

Authorized for release by:
4/16/2021 12:14:58 PM
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@Eurofinset.com

Designee for

Orlette Johnson, Senior Project Manager
(484)685-0864
Orlette.Johnson@Eurofinset.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Wyatt Watson
Project Management Assistant I
4/16/2021 12:14:58 PM

Table of Contents

Definitions/Glossary

Client: New York State D.E.C.
Job ID: 480-182715-1
Project/Site: Former Raeco Products #828107

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-182715-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-182715-1

Comments
No additional comments.

Receipt
The samples were received on 4/1/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.2º C and 4.1º C.

GC/MS VOA
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-1D (480-182715-5). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-3D (480-182715-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The Laboratory Control Sample (LCS) was outside laboratory/project quality control limits for the following analyte: Acetone. All other spike recoveries and quality control indicators, including sample specific surrogate recoveries, were acceptable.The following sample is impacted: MW-4DD (480-182715-6).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-575088 recovered outside control limits for the following analytes: Dichlorobromomethane, Chlorodibromomethane and Methyl tert-butyl ether. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

MW-4DD (480-182715-6).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-575088 recovered outside control limits for the following analytes: Acetone, Dichlorobromomethane, Chlorodibromomethane and Methyl tert-butyl ether. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

DUPLICATE (480-182715-8) and TB (480-182715-9).

Method 8260C: The continuing calibration verification (CCV) analyzed in 480-575088 was outside the method criteria for the following analyte(s): Acetone. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

MW-4DD (480-182715-6).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-575088 recovered above the upper control limit for Carbon disulfide, 2-Hexanone, Chlorodibromomethane and Methyl tert-butyl ether. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: MW-4DD (480-182715-6).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-575088 recovered above the upper control limit for Acetone, Carbon disulfide, 2-Hexanone, Chlorodibromomethane and Methyl tert-butyl ether. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: DUPLICATE (480-182715-8) and TB (480-182715-9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D SIM ID: The 1,4-Dioxane result reported for sample(s) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

Job ID: 480-182715-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

MW-3DD (480-182715-3[MS]) and MW-3DD (480-182715-3[MSD])

Method 8270D SIM ID: The 1,4-Dioxane result reported for sample(s) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

MW-1D (480-182715-5)

Method 8270D SIM ID: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-1D (480-182715-5). Elevated reporting limits (RLs) are provided.

Method 8270D SIM ID: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-3D (480-182715-4). Elevated reporting limits (RLs) are provided.

Method 8270D SIM ID: The 1,4-Dioxane result reported for sample MW-3D (480-182715-4) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS
Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-6:2 FTS in the following sample: MW-4D (480-182715-1). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-6:2 FTS and M2-8:2 FTS in the following samples: MW-3D (480-182715-4), MW-1D (480-182715-5) and DUPLICATE (480-182715-8). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): The Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit for 13C4 PFBA: MW-1D (480-182715-5). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample.

Method 537 (modified): The “I” qualifier means the transition mass ratio for the indicated analyte was outside of the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty, and the reported value may have some high bias. However, analyst judgement was used to positively identify the analyte.
MW-3DD (480-182715-3)

Method 537 (modified): The matrix spike (MS) recoveries for Perfluorohexanesulfonic acid (PFHxS) preparation batch 320-476039 and analytical batch 320-477640 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 3535: The following samples were cloudy prior to extraction:
MW-3DD (480-182715-3), MW-3DD (480-182715-3[MS]), MW-3DD (480-182715-3[MSD]), MW-3D (480-182715-4), MW-1D (480-182715-5) and DUPLICATE (480-182715-8)

3535 PFC
Aqueous
320-476039 and 320-476039

Method 3535: The following samples contained sediments prior to extraction:

Job ID: 480-182715-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

MW-4DD (480-182715-6)

3535 PFC
Aqueous
320-476039

Method 3535: The following samples contained sediments which clogged the cartridge during extraction:
MW-4DD (480-182715-6)

3535 PFC
Aqueous
320-476039

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: New York State D.E.C.
Project/Site: Former Raeco Products #828107

Job ID: 480-182715-1

Client Sample ID: MW-4D — Lab Sample ID: 480-182715-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.87	J	1.0	0.82	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	3.5		1.0	0.38	ug/L	1		8260C	Total/NA
Chloroform	0.34	J	1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	72		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.40	J	1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	39		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	48		1.0	0.90	ug/L	1		8260C	Total/NA
1,4-Dioxane	1.1		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	17		4.5	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	10		1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	6.8		1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.7		1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	6.0		1.8	0.76	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.29	J	1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.5	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.6	J	1.8	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-6D — Lab Sample ID: 480-182715-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.0	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-3DD — Lab Sample ID: 480-182715-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.49	J	1.0	0.41	ug/L	1		8260C	Total/NA
1,4-Dioxane	0.32		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	4.4	J	4.5	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.5		1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.6	J	1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.8		1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.0		1.8	0.76	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.3	J	1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.91	J	1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.24	J I	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.9		1.8	0.48	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-3D — Lab Sample ID: 480-182715-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	4.3		4.0	3.0	ug/L	4		8260C	Total/NA
Chloroethane	4.4		4.0	1.3	ug/L	4		8260C	Total/NA
Cyclohexane	10		4.0	0.72	ug/L	4		8260C	Total/NA
1,4-Dioxane	64	E	4.0	2.0	ug/L	20		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	50		4.4	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.8		1.8	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	5.0		1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.3		1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.7		1.8	0.75	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.55	J	1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.67	J	1.8	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	1.1	J	1.8	0.87	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: Former Raeco Products #828107

Job ID: 480-182715-1

Client Sample ID: MW-1D — Lab Sample ID: 480-182715-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	320		200	76	ug/L	200		8260C	Total/NA
cis-1,2-Dichloroethene	12000		200	160	ug/L	200		8260C	Total/NA
Ethylbenzene	450		200	150	ug/L	200		8260C	Total/NA
Methylcyclohexane	85	J	200	32	ug/L	200		8260C	Total/NA
Toluene	2100		200	100	ug/L	200		8260C	Total/NA
Vinyl chloride	2200		200	180	ug/L	200		8260C	Total/NA
Xylenes, Total	1700		400	130	ug/L	200		8260C	Total/NA
1,4-Dioxane	170	E	9.6	4.8	ug/L	50		8270D SIM ID	Total/NA
Perfluorohexanoic acid (PFHxA)	3.5		1.7	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.1		1.7	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	5.8		1.7	0.74	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.72	J	1.7	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.2	J	1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.6		1.7	0.47	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-4DD — Lab Sample ID: 480-182715-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	4.0	J	10	1.3	ug/L	1		8260C	Total/NA
Acetone	26	*+	10	3.0	ug/L	1		8260C	Total/NA
Benzene	0.59	J	1.0	0.41	ug/L	1		8260C	Total/NA
Cyclohexane	0.53	J	1.0	0.18	ug/L	1		8260C	Total/NA
Toluene	0.61	J	1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	0.97	J	2.0	0.66	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	7.2		4.1	2.0	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.61	J	1.7	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.0		1.7	0.48	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.97	J	1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.1		1.7	0.70	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.73	J	1.7	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.99	J	1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.7		1.7	0.17	ng/L	1		537 (modified)	Total/NA

Client Sample ID: EB — Lab Sample ID: 480-182715-7

No Detections.

Client Sample ID: DUPLICATE — Lab Sample ID: 480-182715-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.51	J	1.0	0.41	ug/L	1		8260C	Total/NA
1,4-Dioxane	0.39		0.20	0.098	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	5.3		4.5	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.7	J	1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.7	J	1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.6	J	1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.2		1.8	0.77	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.4	J	1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.85	J	1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.23	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.7		1.8	0.49	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: Former Raeco Products #828107

Job ID: 480-182715-1

Client Sample ID: TB

Lab Sample ID: 480-182715-9

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-4D
Lab Sample ID: 480-182715-1

Date Collected: 03/29/21 15:40
Matrix: Water

Date Received: 04/01/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.87**	**J**	1.0	0.82	ug/L			04/05/21 14:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/05/21 14:50	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/05/21 14:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/05/21 14:50	1
1,1-Dichloroethane	**3.5**		1.0	0.38	ug/L			04/05/21 14:50	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/05/21 14:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/05/21 14:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/05/21 14:50	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/05/21 14:50	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/05/21 14:50	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/05/21 14:50	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/05/21 14:50	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/05/21 14:50	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/05/21 14:50	1
2-Hexanone	ND		5.0	1.2	ug/L			04/05/21 14:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/05/21 14:50	1
Acetone	ND		10	3.0	ug/L			04/05/21 14:50	1
Benzene	ND		1.0	0.41	ug/L			04/05/21 14:50	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/05/21 14:50	1
Bromoform	ND		1.0	0.26	ug/L			04/05/21 14:50	1
Bromomethane	ND		1.0	0.69	ug/L			04/05/21 14:50	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/05/21 14:50	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/05/21 14:50	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/05/21 14:50	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/05/21 14:50	1
Chloroethane	ND		1.0	0.32	ug/L			04/05/21 14:50	1
Chloroform	**0.34**	**J**	1.0	0.34	ug/L			04/05/21 14:50	1
Chloromethane	ND		1.0	0.35	ug/L			04/05/21 14:50	1
cis-1,2-Dichloroethene	**72**		1.0	0.81	ug/L			04/05/21 14:50	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/05/21 14:50	1
Cyclohexane	ND		1.0	0.18	ug/L			04/05/21 14:50	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/05/21 14:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/05/21 14:50	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/05/21 14:50	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/05/21 14:50	1
Methyl acetate	ND		2.5	1.3	ug/L			04/05/21 14:50	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/05/21 14:50	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/05/21 14:50	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/05/21 14:50	1
Styrene	ND		1.0	0.73	ug/L			04/05/21 14:50	1
Tetrachloroethene	**0.40**	**J**	1.0	0.36	ug/L			04/05/21 14:50	1
Toluene	ND		1.0	0.51	ug/L			04/05/21 14:50	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/05/21 14:50	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/05/21 14:50	1
Trichloroethene	**39**		1.0	0.46	ug/L			04/05/21 14:50	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/05/21 14:50	1
Vinyl chloride	**48**		1.0	0.90	ug/L			04/05/21 14:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/05/21 14:50	1

Client Sample ID: MW-4D
Date Collected: 03/29/21 15:40
Date Received: 04/01/21 08:00

Lab Sample ID: 480-182715-1
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					04/05/21 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	110		80 - 120		04/05/21 14:50	1
1,2-Dichloroethane-d4 (Surr)	112		77 - 120		04/05/21 14:50	1
4-Bromofluorobenzene (Surr)	109		73 - 120		04/05/21 14:50	1
Dibromofluoromethane (Surr)	113		75 - 123		04/05/21 14:50	1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.1		0.20	0.10	ug/L		04/05/21 08:28	04/06/21 20:50	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	28		15 - 110	04/05/21 08:28	04/06/21 20:50	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	17		4.5	2.1	ng/L		04/01/21 19:15	04/05/21 07:13	1
Perfluoropentanoic acid (PFPeA)	10		1.8	0.44	ng/L		04/01/21 19:15	04/05/21 07:13	1
Perfluorohexanoic acid (PFHxA)	6.8		1.8	0.52	ng/L		04/01/21 19:15	04/05/21 07:13	1
Perfluoroheptanoic acid (PFHpA)	3.7		1.8	0.22	ng/L		04/01/21 19:15	04/05/21 07:13	1
Perfluorooctanoic acid (PFOA)	6.0		1.8	0.76	ng/L		04/01/21 19:15	04/05/21 07:13	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.24	ng/L		04/01/21 19:15	04/05/21 07:13	1
Perfluorodecanoic acid (PFDA)	0.29	J	1.8	0.28	ng/L		04/01/21 19:15	04/05/21 07:13	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.98	ng/L		04/01/21 19:15	04/05/21 07:13	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.49	ng/L		04/01/21 19:15	04/05/21 07:13	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	1.2	ng/L		04/01/21 19:15	04/05/21 07:13	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.65	ng/L		04/01/21 19:15	04/05/21 07:13	1
Perfluorobutanesulfonic acid (PFBS)	1.5	J	1.8	0.18	ng/L		04/01/21 19:15	04/05/21 07:13	1
Perfluorohexanesulfonic acid (PFHxS)	1.6	J	1.8	0.51	ng/L		04/01/21 19:15	04/05/21 07:13	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.17	ng/L		04/01/21 19:15	04/05/21 07:13	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.48	ng/L		04/01/21 19:15	04/05/21 07:13	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.29	ng/L		04/01/21 19:15	04/05/21 07:13	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.88	ng/L		04/01/21 19:15	04/05/21 07:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	1.1	ng/L		04/01/21 19:15	04/05/21 07:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5	1.2	ng/L		04/01/21 19:15	04/05/21 07:13	1
6:2 FTS	ND		4.5	2.2	ng/L		04/01/21 19:15	04/05/21 07:13	1
8:2 FTS	ND		1.8	0.41	ng/L		04/01/21 19:15	04/05/21 07:13	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	37		25 - 150	04/01/21 19:15	04/05/21 07:13	1
13C5 PFPeA	53		25 - 150	04/01/21 19:15	04/05/21 07:13	1
13C2 PFHxA	65		25 - 150	04/01/21 19:15	04/05/21 07:13	1
13C4 PFHpA	70		25 - 150	04/01/21 19:15	04/05/21 07:13	1
13C4 PFOA	86		25 - 150	04/01/21 19:15	04/05/21 07:13	1
13C5 PFNA	75		25 - 150	04/01/21 19:15	04/05/21 07:13	1
13C2 PFDA	81		25 - 150	04/01/21 19:15	04/05/21 07:13	1
13C2 PFUnA	77		25 - 150	04/01/21 19:15	04/05/21 07:13	1

Client Sample ID: MW-4D
Lab Sample ID: 480-182715-1
Date Collected: 03/29/21 15:40
Matrix: Water
Date Received: 04/01/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	62		25 - 150	04/01/21 19:15	04/05/21 07:13	1
13C2 PFTeDA	64		25 - 150	04/01/21 19:15	04/05/21 07:13	1
13C3 PFBS	70		25 - 150	04/01/21 19:15	04/05/21 07:13	1
18O2 PFHxS	87		25 - 150	04/01/21 19:15	04/05/21 07:13	1
13C4 PFOS	80		25 - 150	04/01/21 19:15	04/05/21 07:13	1
13C8 FOSA	83		25 - 150	04/01/21 19:15	04/05/21 07:13	1
d3-NMeFOSAA	75		25 - 150	04/01/21 19:15	04/05/21 07:13	1
d5-NEtFOSAA	75		25 - 150	04/01/21 19:15	04/05/21 07:13	1
M2-6:2 FTS	191	*5+	25 - 150	04/01/21 19:15	04/05/21 07:13	1
M2-8:2 FTS	141		25 - 150	04/01/21 19:15	04/05/21 07:13	1

Client Sample ID: MW-6D
Lab Sample ID: 480-182715-2
Date Collected: 03/30/21 11:20
Matrix: Water
Date Received: 04/01/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/05/21 15:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/05/21 15:14	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/05/21 15:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/05/21 15:14	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/05/21 15:14	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/05/21 15:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/05/21 15:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/05/21 15:14	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/05/21 15:14	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/05/21 15:14	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/05/21 15:14	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/05/21 15:14	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/05/21 15:14	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/05/21 15:14	1
2-Hexanone	ND		5.0	1.2	ug/L			04/05/21 15:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/05/21 15:14	1
Acetone	**3.0**	**J**	10	3.0	ug/L			04/05/21 15:14	1
Benzene	ND		1.0	0.41	ug/L			04/05/21 15:14	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/05/21 15:14	1
Bromoform	ND		1.0	0.26	ug/L			04/05/21 15:14	1
Bromomethane	ND		1.0	0.69	ug/L			04/05/21 15:14	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/05/21 15:14	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/05/21 15:14	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/05/21 15:14	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/05/21 15:14	1
Chloroethane	ND		1.0	0.32	ug/L			04/05/21 15:14	1
Chloroform	ND		1.0	0.34	ug/L			04/05/21 15:14	1
Chloromethane	ND		1.0	0.35	ug/L			04/05/21 15:14	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/05/21 15:14	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/05/21 15:14	1
Cyclohexane	ND		1.0	0.18	ug/L			04/05/21 15:14	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/05/21 15:14	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/05/21 15:14	1

Client Sample ID: MW-6D
Lab Sample ID: 480-182715-2

Date Collected: 03/30/21 11:20
Matrix: Water
Date Received: 04/01/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/05/21 15:14	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/05/21 15:14	1
Methyl acetate	ND		2.5	1.3	ug/L			04/05/21 15:14	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/05/21 15:14	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/05/21 15:14	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/05/21 15:14	1
Styrene	ND		1.0	0.73	ug/L			04/05/21 15:14	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/05/21 15:14	1
Toluene	ND		1.0	0.51	ug/L			04/05/21 15:14	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/05/21 15:14	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/05/21 15:14	1
Trichloroethene	ND		1.0	0.46	ug/L			04/05/21 15:14	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/05/21 15:14	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/05/21 15:14	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/05/21 15:14	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*04/05/21 15:14*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*04/05/21 15:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*04/05/21 15:14*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*04/05/21 15:14*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*04/05/21 15:14*	*1*

Client Sample ID: MW-3DD
Lab Sample ID: 480-182715-3

Date Collected: 03/30/21 15:00
Matrix: Water
Date Received: 04/01/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/05/21 15:38	1
1,1,2,2-Tetrachloroethane	ND	F1	1.0	0.21	ug/L			04/05/21 15:38	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/05/21 15:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/05/21 15:38	1
1,1-Dichloroethane	ND	F1	1.0	0.38	ug/L			04/05/21 15:38	1
1,1-Dichloroethene	ND	F1	1.0	0.29	ug/L			04/05/21 15:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/05/21 15:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/05/21 15:38	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/05/21 15:38	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/05/21 15:38	1
1,2-Dichloropropane	ND	F1	1.0	0.72	ug/L			04/05/21 15:38	1
1,3-Dichlorobenzene	ND	F1	1.0	0.78	ug/L			04/05/21 15:38	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/05/21 15:38	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/05/21 15:38	1
2-Hexanone	ND		5.0	1.2	ug/L			04/05/21 15:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/05/21 15:38	1
Acetone	ND		10	3.0	ug/L			04/05/21 15:38	1
Benzene	**0.49**	**J**	1.0	0.41	ug/L			04/05/21 15:38	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/05/21 15:38	1

Client Sample ID: MW-3DD
Date Collected: 03/30/21 15:00
Date Received: 04/01/21 08:00

Lab Sample ID: 480-182715-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0	0.26	ug/L			04/05/21 15:38	1
Bromomethane	ND	F2	1.0	0.69	ug/L			04/05/21 15:38	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/05/21 15:38	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/05/21 15:38	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/05/21 15:38	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/05/21 15:38	1
Chloroethane	ND		1.0	0.32	ug/L			04/05/21 15:38	1
Chloroform	ND		1.0	0.34	ug/L			04/05/21 15:38	1
Chloromethane	ND		1.0	0.35	ug/L			04/05/21 15:38	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/05/21 15:38	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/05/21 15:38	1
Cyclohexane	ND		1.0	0.18	ug/L			04/05/21 15:38	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/05/21 15:38	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/05/21 15:38	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/05/21 15:38	1
Isopropylbenzene	ND	F1	1.0	0.79	ug/L			04/05/21 15:38	1
Methyl acetate	ND		2.5	1.3	ug/L			04/05/21 15:38	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/05/21 15:38	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/05/21 15:38	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/05/21 15:38	1
Styrene	ND		1.0	0.73	ug/L			04/05/21 15:38	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/05/21 15:38	1
Toluene	ND	F1	1.0	0.51	ug/L			04/05/21 15:38	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/05/21 15:38	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/05/21 15:38	1
Trichloroethene	ND		1.0	0.46	ug/L			04/05/21 15:38	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/05/21 15:38	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/05/21 15:38	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/05/21 15:38	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*04/05/21 15:38*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 120*		*04/05/21 15:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*04/05/21 15:38*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*04/05/21 15:38*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*04/05/21 15:38*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.32**		0.20	0.10	ug/L		04/05/21 08:28	04/06/21 19:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*26*		*15 - 110*	*04/05/21 08:28*	*04/06/21 19:15*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**4.4**	**J**	4.5	2.1	ng/L		04/01/21 19:15	04/07/21 15:43	1
Perfluoropentanoic acid (PFPeA)	**2.5**		1.8	0.44	ng/L		04/01/21 19:15	04/07/21 15:43	1
Perfluorohexanoic acid (PFHxA)	**1.6**	**J**	1.8	0.52	ng/L		04/01/21 19:15	04/07/21 15:43	1

Client Sample ID: MW-3DD
Lab Sample ID: 480-182715-3
Date Collected: 03/30/21 15:00
Matrix: Water
Date Received: 04/01/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	**1.8**		1.8	0.22	ng/L		04/01/21 19:15	04/07/21 15:43	1
Perfluorooctanoic acid (PFOA)	**2.0**		1.8	0.76	ng/L		04/01/21 19:15	04/07/21 15:43	1
Perfluorononanoic acid (PFNA)	**1.3**	**J**	1.8	0.24	ng/L		04/01/21 19:15	04/07/21 15:43	1
Perfluorodecanoic acid (PFDA)	**0.91**	**J**	1.8	0.28	ng/L		04/01/21 19:15	04/07/21 15:43	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.98	ng/L		04/01/21 19:15	04/07/21 15:43	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.49	ng/L		04/01/21 19:15	04/07/21 15:43	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	1.2	ng/L		04/01/21 19:15	04/07/21 15:43	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.65	ng/L		04/01/21 19:15	04/07/21 15:43	1
Perfluorobutanesulfonic acid (PFBS)	**0.24**	**J I**	1.8	0.18	ng/L		04/01/21 19:15	04/07/21 15:43	1
Perfluorohexanesulfonic acid (PFHxS)	ND	F1	1.8	0.51	ng/L		04/01/21 19:15	04/07/21 15:43	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.17	ng/L		04/01/21 19:15	04/07/21 15:43	1
Perfluorooctanesulfonic acid (PFOS)	**2.9**		1.8	0.48	ng/L		04/01/21 19:15	04/07/21 15:43	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.29	ng/L		04/01/21 19:15	04/07/21 15:43	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.87	ng/L		04/01/21 19:15	04/07/21 15:43	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	1.1	ng/L		04/01/21 19:15	04/07/21 15:43	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5	1.2	ng/L		04/01/21 19:15	04/07/21 15:43	1
6:2 FTS	ND		4.5	2.2	ng/L		04/01/21 19:15	04/07/21 15:43	1
8:2 FTS	ND		1.8	0.41	ng/L		04/01/21 19:15	04/07/21 15:43	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*67*		*25 - 150*	*04/01/21 19:15*	*04/07/21 15:43*	*1*
13C5 PFPeA	*78*		*25 - 150*	*04/01/21 19:15*	*04/07/21 15:43*	*1*
13C2 PFHxA	*83*		*25 - 150*	*04/01/21 19:15*	*04/07/21 15:43*	*1*
13C4 PFHpA	*87*		*25 - 150*	*04/01/21 19:15*	*04/07/21 15:43*	*1*
13C4 PFOA	*89*		*25 - 150*	*04/01/21 19:15*	*04/07/21 15:43*	*1*
13C5 PFNA	*93*		*25 - 150*	*04/01/21 19:15*	*04/07/21 15:43*	*1*
13C2 PFDA	*93*		*25 - 150*	*04/01/21 19:15*	*04/07/21 15:43*	*1*
13C2 PFUnA	*90*		*25 - 150*	*04/01/21 19:15*	*04/07/21 15:43*	*1*
13C2 PFDoA	*78*		*25 - 150*	*04/01/21 19:15*	*04/07/21 15:43*	*1*
13C2 PFTeDA	*75*		*25 - 150*	*04/01/21 19:15*	*04/07/21 15:43*	*1*
13C3 PFBS	*75*		*25 - 150*	*04/01/21 19:15*	*04/07/21 15:43*	*1*
18O2 PFHxS	*81*		*25 - 150*	*04/01/21 19:15*	*04/07/21 15:43*	*1*
13C4 PFOS	*82*		*25 - 150*	*04/01/21 19:15*	*04/07/21 15:43*	*1*
13C8 FOSA	*90*		*25 - 150*	*04/01/21 19:15*	*04/07/21 15:43*	*1*
d3-NMeFOSAA	*105*		*25 - 150*	*04/01/21 19:15*	*04/07/21 15:43*	*1*
d5-NEtFOSAA	*123*		*25 - 150*	*04/01/21 19:15*	*04/07/21 15:43*	*1*
M2-6:2 FTS	*90*		*25 - 150*	*04/01/21 19:15*	*04/07/21 15:43*	*1*
M2-8:2 FTS	*95*		*25 - 150*	*04/01/21 19:15*	*04/07/21 15:43*	*1*

Client Sample ID: MW-3D
Lab Sample ID: 480-182715-4
Date Collected: 03/30/21 15:10
Matrix: Water
Date Received: 04/01/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			04/05/21 16:02	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			04/05/21 16:02	4

Client: New York State D.E.C.
Job ID: 480-182715-1
Project/Site: Former Raeco Products #828107

Client Sample ID: MW-3D
Lab Sample ID: 480-182715-4
Date Collected: 03/30/21 15:10
Matrix: Water
Date Received: 04/01/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			04/05/21 16:02	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			04/05/21 16:02	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			04/05/21 16:02	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			04/05/21 16:02	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			04/05/21 16:02	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			04/05/21 16:02	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			04/05/21 16:02	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			04/05/21 16:02	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			04/05/21 16:02	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			04/05/21 16:02	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			04/05/21 16:02	4
2-Butanone (MEK)	ND		40	5.3	ug/L			04/05/21 16:02	4
2-Hexanone	ND		20	5.0	ug/L			04/05/21 16:02	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			04/05/21 16:02	4
Acetone	ND		40	12	ug/L			04/05/21 16:02	4
Benzene	ND		4.0	1.6	ug/L			04/05/21 16:02	4
Bromodichloromethane	ND		4.0	1.6	ug/L			04/05/21 16:02	4
Bromoform	ND		4.0	1.0	ug/L			04/05/21 16:02	4
Bromomethane	ND		4.0	2.8	ug/L			04/05/21 16:02	4
Carbon disulfide	ND		4.0	0.76	ug/L			04/05/21 16:02	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			04/05/21 16:02	4
Chlorobenzene	**4.3**		4.0	3.0	ug/L			04/05/21 16:02	4
Dibromochloromethane	ND		4.0	1.3	ug/L			04/05/21 16:02	4
Chloroethane	**4.4**		4.0	1.3	ug/L			04/05/21 16:02	4
Chloroform	ND		4.0	1.4	ug/L			04/05/21 16:02	4
Chloromethane	ND		4.0	1.4	ug/L			04/05/21 16:02	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			04/05/21 16:02	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			04/05/21 16:02	4
Cyclohexane	**10**		4.0	0.72	ug/L			04/05/21 16:02	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			04/05/21 16:02	4
Ethylbenzene	ND		4.0	3.0	ug/L			04/05/21 16:02	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			04/05/21 16:02	4
Isopropylbenzene	ND		4.0	3.2	ug/L			04/05/21 16:02	4
Methyl acetate	ND		10	5.2	ug/L			04/05/21 16:02	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			04/05/21 16:02	4
Methylcyclohexane	ND		4.0	0.64	ug/L			04/05/21 16:02	4
Methylene Chloride	ND		4.0	1.8	ug/L			04/05/21 16:02	4
Styrene	ND		4.0	2.9	ug/L			04/05/21 16:02	4
Tetrachloroethene	ND		4.0	1.4	ug/L			04/05/21 16:02	4
Toluene	ND		4.0	2.0	ug/L			04/05/21 16:02	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			04/05/21 16:02	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			04/05/21 16:02	4
Trichloroethene	ND		4.0	1.8	ug/L			04/05/21 16:02	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			04/05/21 16:02	4
Vinyl chloride	ND		4.0	3.6	ug/L			04/05/21 16:02	4
Xylenes, Total	ND		8.0	2.6	ug/L			04/05/21 16:02	4

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*14*	*T J*	*ug/L*		*3.19*			*04/05/21 16:02*	*4*

Client Sample ID: MW-3D

Date Collected: 03/30/21 15:10
Date Received: 04/01/21 08:00

Lab Sample ID: 480-182715-4

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120		04/05/21 16:02	4
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		04/05/21 16:02	4
4-Bromofluorobenzene (Surr)	108		73 - 120		04/05/21 16:02	4
Dibromofluoromethane (Surr)	102		75 - 123		04/05/21 16:02	4

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**64**	**E**	4.0	2.0	ug/L		04/05/21 08:28	04/08/21 20:29	20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	27		15 - 110	04/05/21 08:28	04/08/21 20:29	20

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**50**		4.4	2.1	ng/L		04/01/21 19:15	04/05/21 07:50	1
Perfluoropentanoic acid (PFPeA)	**3.8**		1.8	0.43	ng/L		04/01/21 19:15	04/05/21 07:50	1
Perfluorohexanoic acid (PFHxA)	**5.0**		1.8	0.51	ng/L		04/01/21 19:15	04/05/21 07:50	1
Perfluoroheptanoic acid (PFHpA)	**2.3**		1.8	0.22	ng/L		04/01/21 19:15	04/05/21 07:50	1
Perfluorooctanoic acid (PFOA)	**3.7**		1.8	0.75	ng/L		04/01/21 19:15	04/05/21 07:50	1
Perfluorononanoic acid (PFNA)	**0.55**	**J**	1.8	0.24	ng/L		04/01/21 19:15	04/05/21 07:50	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.27	ng/L		04/01/21 19:15	04/05/21 07:50	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.97	ng/L		04/01/21 19:15	04/05/21 07:50	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.49	ng/L		04/01/21 19:15	04/05/21 07:50	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	1.1	ng/L		04/01/21 19:15	04/05/21 07:50	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.65	ng/L		04/01/21 19:15	04/05/21 07:50	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.18	ng/L		04/01/21 19:15	04/05/21 07:50	1
Perfluorohexanesulfonic acid (PFHxS)	**0.67**	**J**	1.8	0.50	ng/L		04/01/21 19:15	04/05/21 07:50	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.17	ng/L		04/01/21 19:15	04/05/21 07:50	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.48	ng/L		04/01/21 19:15	04/05/21 07:50	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.28	ng/L		04/01/21 19:15	04/05/21 07:50	1
Perfluorooctanesulfonamide (FOSA)	**1.1**	**J**	1.8	0.87	ng/L		04/01/21 19:15	04/05/21 07:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4	1.1	ng/L		04/01/21 19:15	04/05/21 07:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4	1.1	ng/L		04/01/21 19:15	04/05/21 07:50	1
6:2 FTS	ND		4.4	2.2	ng/L		04/01/21 19:15	04/05/21 07:50	1
8:2 FTS	ND		1.8	0.41	ng/L		04/01/21 19:15	04/05/21 07:50	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	29		25 - 150	04/01/21 19:15	04/05/21 07:50	1
13C5 PFPeA	45		25 - 150	04/01/21 19:15	04/05/21 07:50	1
13C2 PFHxA	60		25 - 150	04/01/21 19:15	04/05/21 07:50	1
13C4 PFHpA	72		25 - 150	04/01/21 19:15	04/05/21 07:50	1
13C4 PFOA	90		25 - 150	04/01/21 19:15	04/05/21 07:50	1
13C5 PFNA	96		25 - 150	04/01/21 19:15	04/05/21 07:50	1
13C2 PFDA	95		25 - 150	04/01/21 19:15	04/05/21 07:50	1
13C2 PFUnA	80		25 - 150	04/01/21 19:15	04/05/21 07:50	1
13C2 PFDoA	79		25 - 150	04/01/21 19:15	04/05/21 07:50	1
13C2 PFTeDA	86		25 - 150	04/01/21 19:15	04/05/21 07:50	1
13C3 PFBS	91		25 - 150	04/01/21 19:15	04/05/21 07:50	1

Client Sample ID: MW-3D
Lab Sample ID: 480-182715-4
Date Collected: 03/30/21 15:10
Matrix: Water
Date Received: 04/01/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	107		25 - 150	04/01/21 19:15	04/05/21 07:50	1
13C4 PFOS	107		25 - 150	04/01/21 19:15	04/05/21 07:50	1
13C8 FOSA	97		25 - 150	04/01/21 19:15	04/05/21 07:50	1
d3-NMeFOSAA	93		25 - 150	04/01/21 19:15	04/05/21 07:50	1
d5-NEtFOSAA	92		25 - 150	04/01/21 19:15	04/05/21 07:50	1
M2-6:2 FTS	281	*5+	25 - 150	04/01/21 19:15	04/05/21 07:50	1
M2-8:2 FTS	233	*5+	25 - 150	04/01/21 19:15	04/05/21 07:50	1

Client Sample ID: MW-1D
Lab Sample ID: 480-182715-5
Date Collected: 03/30/21 17:20
Matrix: Water
Date Received: 04/01/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		200	160	ug/L			04/05/21 16:26	200
1,1,2,2-Tetrachloroethane	ND		200	42	ug/L			04/05/21 16:26	200
1,1,2-Trichloroethane	ND		200	46	ug/L			04/05/21 16:26	200
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		200	62	ug/L			04/05/21 16:26	200
1,1-Dichloroethane	**320**		200	76	ug/L			04/05/21 16:26	200
1,1-Dichloroethene	ND		200	58	ug/L			04/05/21 16:26	200
1,2,4-Trichlorobenzene	ND		200	82	ug/L			04/05/21 16:26	200
1,2-Dibromo-3-Chloropropane	ND		200	78	ug/L			04/05/21 16:26	200
1,2-Dichlorobenzene	ND		200	160	ug/L			04/05/21 16:26	200
1,2-Dichloroethane	ND		200	42	ug/L			04/05/21 16:26	200
1,2-Dichloropropane	ND		200	140	ug/L			04/05/21 16:26	200
1,3-Dichlorobenzene	ND		200	160	ug/L			04/05/21 16:26	200
1,4-Dichlorobenzene	ND		200	170	ug/L			04/05/21 16:26	200
2-Butanone (MEK)	ND		2000	260	ug/L			04/05/21 16:26	200
2-Hexanone	ND		1000	250	ug/L			04/05/21 16:26	200
4-Methyl-2-pentanone (MIBK)	ND		1000	420	ug/L			04/05/21 16:26	200
Acetone	ND		2000	600	ug/L			04/05/21 16:26	200
Benzene	ND		200	82	ug/L			04/05/21 16:26	200
Bromodichloromethane	ND		200	78	ug/L			04/05/21 16:26	200
Bromoform	ND		200	52	ug/L			04/05/21 16:26	200
Bromomethane	ND		200	140	ug/L			04/05/21 16:26	200
Carbon disulfide	ND		200	38	ug/L			04/05/21 16:26	200
Carbon tetrachloride	ND		200	54	ug/L			04/05/21 16:26	200
Chlorobenzene	ND		200	150	ug/L			04/05/21 16:26	200
Dibromochloromethane	ND		200	64	ug/L			04/05/21 16:26	200
Chloroethane	ND		200	64	ug/L			04/05/21 16:26	200
Chloroform	ND		200	68	ug/L			04/05/21 16:26	200
Chloromethane	ND		200	70	ug/L			04/05/21 16:26	200
cis-1,2-Dichloroethene	**12000**		200	160	ug/L			04/05/21 16:26	200
cis-1,3-Dichloropropene	ND		200	72	ug/L			04/05/21 16:26	200
Cyclohexane	ND		200	36	ug/L			04/05/21 16:26	200
Dichlorodifluoromethane	ND		200	140	ug/L			04/05/21 16:26	200
Ethylbenzene	**450**		200	150	ug/L			04/05/21 16:26	200
1,2-Dibromoethane	ND		200	150	ug/L			04/05/21 16:26	200
Isopropylbenzene	ND		200	160	ug/L			04/05/21 16:26	200
Methyl acetate	ND		500	260	ug/L			04/05/21 16:26	200

Client Sample ID: MW-1D
Date Collected: 03/30/21 17:20
Date Received: 04/01/21 08:00

Lab Sample ID: 480-182715-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		200	32	ug/L			04/05/21 16:26	200
Methylcyclohexane	**85**	**J**	200	32	ug/L			04/05/21 16:26	200
Methylene Chloride	ND		200	88	ug/L			04/05/21 16:26	200
Styrene	ND		200	150	ug/L			04/05/21 16:26	200
Tetrachloroethene	ND		200	72	ug/L			04/05/21 16:26	200
Toluene	**2100**		200	100	ug/L			04/05/21 16:26	200
trans-1,2-Dichloroethene	ND		200	180	ug/L			04/05/21 16:26	200
trans-1,3-Dichloropropene	ND		200	74	ug/L			04/05/21 16:26	200
Trichloroethene	ND		200	92	ug/L			04/05/21 16:26	200
Trichlorofluoromethane	ND		200	180	ug/L			04/05/21 16:26	200
Vinyl chloride	**2200**		200	180	ug/L			04/05/21 16:26	200
Xylenes, Total	**1700**		400	130	ug/L			04/05/21 16:26	200

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
m-Xylene & p-Xylene	*1300*		*ug/L*		*8.82*	*179601-23-1*		*04/05/21 16:26*	*200*
o-Xylene	*420*		*ug/L*		*9.25*	*95-47-6*		*04/05/21 16:26*	*200*
Tentatively Identified Compound	*None*		*ug/L*					*04/05/21 16:26*	*200*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 120*		*04/05/21 16:26*	*200*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*04/05/21 16:26*	*200*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*04/05/21 16:26*	*200*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*04/05/21 16:26*	*200*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**170**	**E**	9.6	4.8	ug/L		04/05/21 08:28	04/08/21 01:48	50

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*20*		*15 - 110*	*04/05/21 08:28*	*04/08/21 01:48*	*50*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.4	2.1	ng/L		04/01/21 19:15	04/05/21 07:59	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.43	ng/L		04/01/21 19:15	04/05/21 07:59	1
Perfluorohexanoic acid (PFHxA)	**3.5**		1.7	0.51	ng/L		04/01/21 19:15	04/05/21 07:59	1
Perfluoroheptanoic acid (PFHpA)	**2.1**		1.7	0.22	ng/L		04/01/21 19:15	04/05/21 07:59	1
Perfluorooctanoic acid (PFOA)	**5.8**		1.7	0.74	ng/L		04/01/21 19:15	04/05/21 07:59	1
Perfluorononanoic acid (PFNA)	**0.72**	**J**	1.7	0.24	ng/L		04/01/21 19:15	04/05/21 07:59	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.27	ng/L		04/01/21 19:15	04/05/21 07:59	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.96	ng/L		04/01/21 19:15	04/05/21 07:59	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.48	ng/L		04/01/21 19:15	04/05/21 07:59	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	1.1	ng/L		04/01/21 19:15	04/05/21 07:59	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.64	ng/L		04/01/21 19:15	04/05/21 07:59	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.17	ng/L		04/01/21 19:15	04/05/21 07:59	1
Perfluorohexanesulfonic acid (PFHxS)	**1.2**	**J**	1.7	0.50	ng/L		04/01/21 19:15	04/05/21 07:59	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.17	ng/L		04/01/21 19:15	04/05/21 07:59	1
Perfluorooctanesulfonic acid (PFOS)	**2.6**		1.7	0.47	ng/L		04/01/21 19:15	04/05/21 07:59	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.28	ng/L		04/01/21 19:15	04/05/21 07:59	1

Client Sample ID: MW-1D
Lab Sample ID: 480-182715-5
Date Collected: 03/30/21 17:20
Matrix: Water
Date Received: 04/01/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide (FOSA)	ND		1.7	0.86	ng/L		04/01/21 19:15	04/05/21 07:59	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4	1.0	ng/L		04/01/21 19:15	04/05/21 07:59	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4	1.1	ng/L		04/01/21 19:15	04/05/21 07:59	1
6:2 FTS	ND		4.4	2.2	ng/L		04/01/21 19:15	04/05/21 07:59	1
8:2 FTS	ND		1.7	0.40	ng/L		04/01/21 19:15	04/05/21 07:59	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*21*	*5-*	*25 - 150*	*04/01/21 19:15*	*04/05/21 07:59*	*1*
13C5 PFPeA	*35*		*25 - 150*	*04/01/21 19:15*	*04/05/21 07:59*	*1*
13C2 PFHxA	*49*		*25 - 150*	*04/01/21 19:15*	*04/05/21 07:59*	*1*
13C4 PFHpA	*68*		*25 - 150*	*04/01/21 19:15*	*04/05/21 07:59*	*1*
13C4 PFOA	*91*		*25 - 150*	*04/01/21 19:15*	*04/05/21 07:59*	*1*
13C5 PFNA	*90*		*25 - 150*	*04/01/21 19:15*	*04/05/21 07:59*	*1*
13C2 PFDA	*115*		*25 - 150*	*04/01/21 19:15*	*04/05/21 07:59*	*1*
13C2 PFUnA	*105*		*25 - 150*	*04/01/21 19:15*	*04/05/21 07:59*	*1*
13C2 PFDoA	*97*		*25 - 150*	*04/01/21 19:15*	*04/05/21 07:59*	*1*
13C2 PFTeDA	*108*		*25 - 150*	*04/01/21 19:15*	*04/05/21 07:59*	*1*
13C3 PFBS	*94*		*25 - 150*	*04/01/21 19:15*	*04/05/21 07:59*	*1*
18O2 PFHxS	*108*		*25 - 150*	*04/01/21 19:15*	*04/05/21 07:59*	*1*
13C4 PFOS	*123*		*25 - 150*	*04/01/21 19:15*	*04/05/21 07:59*	*1*
13C8 FOSA	*99*		*25 - 150*	*04/01/21 19:15*	*04/05/21 07:59*	*1*
d3-NMeFOSAA	*81*		*25 - 150*	*04/01/21 19:15*	*04/05/21 07:59*	*1*
d5-NEtFOSAA	*99*		*25 - 150*	*04/01/21 19:15*	*04/05/21 07:59*	*1*
M2-6:2 FTS	*322*	*5+*	*25 - 150*	*04/01/21 19:15*	*04/05/21 07:59*	*1*
M2-8:2 FTS	*300*	*5+*	*25 - 150*	*04/01/21 19:15*	*04/05/21 07:59*	*1*

Client Sample ID: MW-4DD
Lab Sample ID: 480-182715-6
Date Collected: 03/31/21 08:15
Matrix: Water
Date Received: 04/01/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/05/21 22:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/05/21 22:59	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/05/21 22:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/05/21 22:59	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/05/21 22:59	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/05/21 22:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/05/21 22:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/05/21 22:59	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/05/21 22:59	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/05/21 22:59	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/05/21 22:59	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/05/21 22:59	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/05/21 22:59	1
2-Butanone (MEK)	**4.0**	**J**	10	1.3	ug/L			04/05/21 22:59	1
2-Hexanone	ND		5.0	1.2	ug/L			04/05/21 22:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/05/21 22:59	1
Acetone	**26**	***+**	10	3.0	ug/L			04/05/21 22:59	1

Client Sample ID: MW-4DD
Lab Sample ID: 480-182715-6
Date Collected: 03/31/21 08:15
Matrix: Water
Date Received: 04/01/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.59**	**J**	1.0	0.41	ug/L			04/05/21 22:59	1
Bromodichloromethane	ND	*+	1.0	0.39	ug/L			04/05/21 22:59	1
Bromoform	ND		1.0	0.26	ug/L			04/05/21 22:59	1
Bromomethane	ND		1.0	0.69	ug/L			04/05/21 22:59	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/05/21 22:59	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/05/21 22:59	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/05/21 22:59	1
Dibromochloromethane	ND	*+	1.0	0.32	ug/L			04/05/21 22:59	1
Chloroethane	ND		1.0	0.32	ug/L			04/05/21 22:59	1
Chloroform	ND		1.0	0.34	ug/L			04/05/21 22:59	1
Chloromethane	ND		1.0	0.35	ug/L			04/05/21 22:59	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/05/21 22:59	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/05/21 22:59	1
Cyclohexane	**0.53**	**J**	1.0	0.18	ug/L			04/05/21 22:59	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/05/21 22:59	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/05/21 22:59	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/05/21 22:59	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/05/21 22:59	1
Methyl acetate	ND		2.5	1.3	ug/L			04/05/21 22:59	1
Methyl tert-butyl ether	ND	*+	1.0	0.16	ug/L			04/05/21 22:59	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/05/21 22:59	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/05/21 22:59	1
Styrene	ND		1.0	0.73	ug/L			04/05/21 22:59	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/05/21 22:59	1
Toluene	**0.61**	**J**	1.0	0.51	ug/L			04/05/21 22:59	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/05/21 22:59	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/05/21 22:59	1
Trichloroethene	ND		1.0	0.46	ug/L			04/05/21 22:59	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/05/21 22:59	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/05/21 22:59	1
Xylenes, Total	**0.97**	**J**	2.0	0.66	ug/L			04/05/21 22:59	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2.6*	*T J*	*ug/L*		*1.73*			*04/05/21 22:59*	*1*
m-Xylene & p-Xylene	*0.97*	*J*	*ug/L*		*8.30*	*179601-23-1*		*04/05/21 22:59*	*1*
2-Octanone	*3.2*	*T J N*	*ug/L*		*10.26*	*111-13-7*		*04/05/21 22:59*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*04/05/21 22:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*04/05/21 22:59*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*04/05/21 22:59*	*1*
Dibromofluoromethane (Surr)	*111*		*75 - 123*		*04/05/21 22:59*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.22	0.11	ug/L		04/05/21 08:28	04/06/21 22:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*35*		*15 - 110*	*04/05/21 08:28*	*04/06/21 22:01*	*1*

Client: New York State D.E.C.
Job ID: 480-182715-1
Project/Site: Former Raeco Products #828107

Client Sample ID: MW-4DD
Lab Sample ID: 480-182715-6
Date Collected: 03/31/21 08:15
Matrix: Water
Date Received: 04/01/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**7.2**		4.1	2.0	ng/L		04/01/21 19:15	04/05/21 08:26	1
Perfluoropentanoic acid (PFPeA)	**0.61**	**J**	1.7	0.40	ng/L		04/01/21 19:15	04/05/21 08:26	1
Perfluorohexanoic acid (PFHxA)	**3.0**		1.7	0.48	ng/L		04/01/21 19:15	04/05/21 08:26	1
Perfluoroheptanoic acid (PFHpA)	**0.97**	**J**	1.7	0.21	ng/L		04/01/21 19:15	04/05/21 08:26	1
Perfluorooctanoic acid (PFOA)	**3.1**		1.7	0.70	ng/L		04/01/21 19:15	04/05/21 08:26	1
Perfluorononanoic acid (PFNA)	**0.73**	**J**	1.7	0.22	ng/L		04/01/21 19:15	04/05/21 08:26	1
Perfluorodecanoic acid (PFDA)	**0.99**	**J**	1.7	0.26	ng/L		04/01/21 19:15	04/05/21 08:26	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.91	ng/L		04/01/21 19:15	04/05/21 08:26	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.45	ng/L		04/01/21 19:15	04/05/21 08:26	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	1.1	ng/L		04/01/21 19:15	04/05/21 08:26	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.60	ng/L		04/01/21 19:15	04/05/21 08:26	1
Perfluorobutanesulfonic acid (PFBS)	**3.7**		1.7	0.17	ng/L		04/01/21 19:15	04/05/21 08:26	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.47	ng/L		04/01/21 19:15	04/05/21 08:26	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.16	ng/L		04/01/21 19:15	04/05/21 08:26	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.45	ng/L		04/01/21 19:15	04/05/21 08:26	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.26	ng/L		04/01/21 19:15	04/05/21 08:26	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7	0.81	ng/L		04/01/21 19:15	04/05/21 08:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.1	0.99	ng/L		04/01/21 19:15	04/05/21 08:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.1	1.1	ng/L		04/01/21 19:15	04/05/21 08:26	1
6:2 FTS	ND		4.1	2.1	ng/L		04/01/21 19:15	04/05/21 08:26	1
8:2 FTS	ND		1.7	0.38	ng/L		04/01/21 19:15	04/05/21 08:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*68*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:26*	*1*
13C5 PFPeA	*66*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:26*	*1*
13C2 PFHxA	*65*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:26*	*1*
13C4 PFHpA	*72*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:26*	*1*
13C4 PFOA	*78*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:26*	*1*
13C5 PFNA	*60*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:26*	*1*
13C2 PFDA	*50*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:26*	*1*
13C2 PFUnA	*42*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:26*	*1*
13C2 PFDoA	*45*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:26*	*1*
13C2 PFTeDA	*49*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:26*	*1*
13C3 PFBS	*69*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:26*	*1*
18O2 PFHxS	*82*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:26*	*1*
13C4 PFOS	*59*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:26*	*1*
13C8 FOSA	*69*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:26*	*1*
d3-NMeFOSAA	*35*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:26*	*1*
d5-NEtFOSAA	*46*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:26*	*1*
M2-6:2 FTS	*117*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:26*	*1*
M2-8:2 FTS	*87*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:26*	*1*

Client: New York State D.E.C.
Job ID: 480-182715-1
Project/Site: Former Raeco Products #828107

Client Sample ID: EB
Date Collected: 03/31/21 08:00
Date Received: 04/01/21 08:00

Lab Sample ID: 480-182715-7
Matrix: Water

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.19	0.095	ug/L		04/05/21 08:28	04/06/21 22:24	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*29*		*15 - 110*	*04/05/21 08:28*	*04/06/21 22:24*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.3	2.1	ng/L		04/01/21 19:15	04/05/21 08:35	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.42	ng/L		04/01/21 19:15	04/05/21 08:35	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.50	ng/L		04/01/21 19:15	04/05/21 08:35	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.22	ng/L		04/01/21 19:15	04/05/21 08:35	1
Perfluorooctanoic acid (PFOA)	ND		1.7	0.73	ng/L		04/01/21 19:15	04/05/21 08:35	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.23	ng/L		04/01/21 19:15	04/05/21 08:35	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.27	ng/L		04/01/21 19:15	04/05/21 08:35	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.95	ng/L		04/01/21 19:15	04/05/21 08:35	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.47	ng/L		04/01/21 19:15	04/05/21 08:35	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	1.1	ng/L		04/01/21 19:15	04/05/21 08:35	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.63	ng/L		04/01/21 19:15	04/05/21 08:35	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.17	ng/L		04/01/21 19:15	04/05/21 08:35	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.49	ng/L		04/01/21 19:15	04/05/21 08:35	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.16	ng/L		04/01/21 19:15	04/05/21 08:35	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.47	ng/L		04/01/21 19:15	04/05/21 08:35	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.28	ng/L		04/01/21 19:15	04/05/21 08:35	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7	0.85	ng/L		04/01/21 19:15	04/05/21 08:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	1.0	ng/L		04/01/21 19:15	04/05/21 08:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3	1.1	ng/L		04/01/21 19:15	04/05/21 08:35	1
6:2 FTS	ND		4.3	2.2	ng/L		04/01/21 19:15	04/05/21 08:35	1
8:2 FTS	ND		1.7	0.40	ng/L		04/01/21 19:15	04/05/21 08:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*90*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:35*	*1*
13C5 PFPeA	*84*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:35*	*1*
13C2 PFHxA	*89*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:35*	*1*
13C4 PFHpA	*92*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:35*	*1*
13C4 PFOA	*93*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:35*	*1*
13C5 PFNA	*93*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:35*	*1*
13C2 PFDA	*96*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:35*	*1*
13C2 PFUnA	*93*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:35*	*1*
13C2 PFDoA	*86*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:35*	*1*
13C2 PFTeDA	*93*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:35*	*1*
13C3 PFBS	*86*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:35*	*1*
18O2 PFHxS	*107*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:35*	*1*
13C4 PFOS	*93*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:35*	*1*
13C8 FOSA	*100*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:35*	*1*
d3-NMeFOSAA	*101*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:35*	*1*
d5-NEtFOSAA	*102*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:35*	*1*
M2-6:2 FTS	*109*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:35*	*1*
M2-8:2 FTS	*141*		*25 - 150*	*04/01/21 19:15*	*04/05/21 08:35*	*1*

Client: New York State D.E.C.
Job ID: 480-182715-1
Project/Site: Former Raeco Products #828107

Client Sample ID: DUPLICATE
Lab Sample ID: 480-182715-8

Date Collected: 03/31/21 00:00
Matrix: Water
Date Received: 04/01/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/05/21 23:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/05/21 23:22	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/05/21 23:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/05/21 23:22	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/05/21 23:22	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/05/21 23:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/05/21 23:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/05/21 23:22	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/05/21 23:22	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/05/21 23:22	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/05/21 23:22	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/05/21 23:22	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/05/21 23:22	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/05/21 23:22	1
2-Hexanone	ND		5.0	1.2	ug/L			04/05/21 23:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/05/21 23:22	1
Acetone	ND	*+	10	3.0	ug/L			04/05/21 23:22	1
Benzene	**0.51**	**J**	1.0	0.41	ug/L			04/05/21 23:22	1
Bromodichloromethane	ND	*+	1.0	0.39	ug/L			04/05/21 23:22	1
Bromoform	ND		1.0	0.26	ug/L			04/05/21 23:22	1
Bromomethane	ND		1.0	0.69	ug/L			04/05/21 23:22	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/05/21 23:22	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/05/21 23:22	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/05/21 23:22	1
Dibromochloromethane	ND	*+	1.0	0.32	ug/L			04/05/21 23:22	1
Chloroethane	ND		1.0	0.32	ug/L			04/05/21 23:22	1
Chloroform	ND		1.0	0.34	ug/L			04/05/21 23:22	1
Chloromethane	ND		1.0	0.35	ug/L			04/05/21 23:22	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/05/21 23:22	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/05/21 23:22	1
Cyclohexane	ND		1.0	0.18	ug/L			04/05/21 23:22	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/05/21 23:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/05/21 23:22	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/05/21 23:22	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/05/21 23:22	1
Methyl acetate	ND		2.5	1.3	ug/L			04/05/21 23:22	1
Methyl tert-butyl ether	ND	*+	1.0	0.16	ug/L			04/05/21 23:22	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/05/21 23:22	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/05/21 23:22	1
Styrene	ND		1.0	0.73	ug/L			04/05/21 23:22	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/05/21 23:22	1
Toluene	ND		1.0	0.51	ug/L			04/05/21 23:22	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/05/21 23:22	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/05/21 23:22	1
Trichloroethene	ND		1.0	0.46	ug/L			04/05/21 23:22	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/05/21 23:22	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/05/21 23:22	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/05/21 23:22	1

Client Sample ID: DUPLICATE
Lab Sample ID: 480-182715-8

Date Collected: 03/31/21 00:00
Matrix: Water
Date Received: 04/01/21 08:00

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					04/05/21 23:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120		04/05/21 23:22	1
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		04/05/21 23:22	1
4-Bromofluorobenzene (Surr)	94		73 - 120		04/05/21 23:22	1
Dibromofluoromethane (Surr)	107		75 - 123		04/05/21 23:22	1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.39		0.20	0.098	ug/L		04/05/21 08:28	04/06/21 22:48	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	27		15 - 110	04/05/21 08:28	04/06/21 22:48	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.3		4.5	2.2	ng/L		04/01/21 19:15	04/05/21 08:44	1
Perfluoropentanoic acid (PFPeA)	1.7	J	1.8	0.44	ng/L		04/01/21 19:15	04/05/21 08:44	1
Perfluorohexanoic acid (PFHxA)	1.7	J	1.8	0.53	ng/L		04/01/21 19:15	04/05/21 08:44	1
Perfluoroheptanoic acid (PFHpA)	1.6	J	1.8	0.23	ng/L		04/01/21 19:15	04/05/21 08:44	1
Perfluorooctanoic acid (PFOA)	2.2		1.8	0.77	ng/L		04/01/21 19:15	04/05/21 08:44	1
Perfluorononanoic acid (PFNA)	1.4	J	1.8	0.24	ng/L		04/01/21 19:15	04/05/21 08:44	1
Perfluorodecanoic acid (PFDA)	0.85	J	1.8	0.28	ng/L		04/01/21 19:15	04/05/21 08:44	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	1.0	ng/L		04/01/21 19:15	04/05/21 08:44	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.50	ng/L		04/01/21 19:15	04/05/21 08:44	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	1.2	ng/L		04/01/21 19:15	04/05/21 08:44	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.66	ng/L		04/01/21 19:15	04/05/21 08:44	1
Perfluorobutanesulfonic acid (PFBS)	0.23	J	1.8	0.18	ng/L		04/01/21 19:15	04/05/21 08:44	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.52	ng/L		04/01/21 19:15	04/05/21 08:44	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.17	ng/L		04/01/21 19:15	04/05/21 08:44	1
Perfluorooctanesulfonic acid (PFOS)	2.7		1.8	0.49	ng/L		04/01/21 19:15	04/05/21 08:44	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.29	ng/L		04/01/21 19:15	04/05/21 08:44	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.89	ng/L		04/01/21 19:15	04/05/21 08:44	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	1.1	ng/L		04/01/21 19:15	04/05/21 08:44	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5	1.2	ng/L		04/01/21 19:15	04/05/21 08:44	1
6:2 FTS	ND		4.5	2.3	ng/L		04/01/21 19:15	04/05/21 08:44	1
8:2 FTS	ND		1.8	0.42	ng/L		04/01/21 19:15	04/05/21 08:44	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	70		25 - 150	04/01/21 19:15	04/05/21 08:44	1
13C5 PFPeA	74		25 - 150	04/01/21 19:15	04/05/21 08:44	1
13C2 PFHxA	78		25 - 150	04/01/21 19:15	04/05/21 08:44	1
13C4 PFHpA	84		25 - 150	04/01/21 19:15	04/05/21 08:44	1
13C4 PFOA	92		25 - 150	04/01/21 19:15	04/05/21 08:44	1
13C5 PFNA	99		25 - 150	04/01/21 19:15	04/05/21 08:44	1
13C2 PFDA	87		25 - 150	04/01/21 19:15	04/05/21 08:44	1
13C2 PFUnA	89		25 - 150	04/01/21 19:15	04/05/21 08:44	1

Client Sample ID: DUPLICATE
Lab Sample ID: 480-182715-8
Date Collected: 03/31/21 00:00
Matrix: Water
Date Received: 04/01/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	59		25 - 150	04/01/21 19:15	04/05/21 08:44	1
13C2 PFTeDA	61		25 - 150	04/01/21 19:15	04/05/21 08:44	1
13C3 PFBS	83		25 - 150	04/01/21 19:15	04/05/21 08:44	1
18O2 PFHxS	96		25 - 150	04/01/21 19:15	04/05/21 08:44	1
13C4 PFOS	87		25 - 150	04/01/21 19:15	04/05/21 08:44	1
13C8 FOSA	98		25 - 150	04/01/21 19:15	04/05/21 08:44	1
d3-NMeFOSAA	82		25 - 150	04/01/21 19:15	04/05/21 08:44	1
d5-NEtFOSAA	79		25 - 150	04/01/21 19:15	04/05/21 08:44	1
M2-6:2 FTS	240	*5+	25 - 150	04/01/21 19:15	04/05/21 08:44	1
M2-8:2 FTS	187	*5+	25 - 150	04/01/21 19:15	04/05/21 08:44	1

Client Sample ID: TB
Lab Sample ID: 480-182715-9
Date Collected: 03/31/21 00:00
Matrix: Water
Date Received: 04/01/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/05/21 23:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/05/21 23:45	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/05/21 23:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/05/21 23:45	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/05/21 23:45	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/05/21 23:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/05/21 23:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/05/21 23:45	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/05/21 23:45	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/05/21 23:45	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/05/21 23:45	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/05/21 23:45	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/05/21 23:45	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/05/21 23:45	1
2-Hexanone	ND		5.0	1.2	ug/L			04/05/21 23:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/05/21 23:45	1
Acetone	ND	*+	10	3.0	ug/L			04/05/21 23:45	1
Benzene	ND		1.0	0.41	ug/L			04/05/21 23:45	1
Bromodichloromethane	ND	*+	1.0	0.39	ug/L			04/05/21 23:45	1
Bromoform	ND		1.0	0.26	ug/L			04/05/21 23:45	1
Bromomethane	ND		1.0	0.69	ug/L			04/05/21 23:45	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/05/21 23:45	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/05/21 23:45	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/05/21 23:45	1
Dibromochloromethane	ND	*+	1.0	0.32	ug/L			04/05/21 23:45	1
Chloroethane	ND		1.0	0.32	ug/L			04/05/21 23:45	1
Chloroform	ND		1.0	0.34	ug/L			04/05/21 23:45	1
Chloromethane	ND		1.0	0.35	ug/L			04/05/21 23:45	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/05/21 23:45	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/05/21 23:45	1
Cyclohexane	ND		1.0	0.18	ug/L			04/05/21 23:45	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/05/21 23:45	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/05/21 23:45	1

Client: New York State D.E.C.
Job ID: 480-182715-1
Project/Site: Former Raeco Products #828107

Client Sample ID: TB
Lab Sample ID: 480-182715-9
Date Collected: 03/31/21 00:00
Matrix: Water
Date Received: 04/01/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/05/21 23:45	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/05/21 23:45	1
Methyl acetate	ND		2.5	1.3	ug/L			04/05/21 23:45	1
Methyl tert-butyl ether	ND	*+	1.0	0.16	ug/L			04/05/21 23:45	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/05/21 23:45	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/05/21 23:45	1
Styrene	ND		1.0	0.73	ug/L			04/05/21 23:45	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/05/21 23:45	1
Toluene	ND		1.0	0.51	ug/L			04/05/21 23:45	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/05/21 23:45	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/05/21 23:45	1
Trichloroethene	ND		1.0	0.46	ug/L			04/05/21 23:45	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/05/21 23:45	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/05/21 23:45	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/05/21 23:45	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*04/05/21 23:45*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/05/21 23:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*04/05/21 23:45*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*04/05/21 23:45*	*1*
Dibromofluoromethane (Surr)	*111*		*75 - 123*		*04/05/21 23:45*	*1*

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Former Raeco Products #828107

Job ID: 480-182715-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-182715-1	MW-4D	110	112	109	113
480-182715-2	MW-6D	107	107	105	106
480-182715-3	MW-3DD	109	109	106	108
480-182715-3 MS	MW-3DD	107	104	106	109
480-182715-3 MSD	MW-3DD	109	105	108	104
480-182715-4	MW-3D	107	106	108	102
480-182715-5	MW-1D	108	106	107	105
480-182715-6	MW-4DD	107	113	103	111
480-182715-8	DUPLICATE	101	104	94	107
480-182715-9	TB	100	109	97	111
LCS 480-574982/5	Lab Control Sample	114	105	112	109
LCS 480-575088/6	Lab Control Sample	99	103	94	103
MB 480-574982/7	Method Blank	113	107	110	110
MB 480-575088/8	Method Blank	99	104	95	105

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Isotope Dilution Summary

Client: New York State D.E.C.
Job ID: 480-182715-1
Project/Site: Former Raeco Products #828107

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)
		DXE
Lab Sample ID	Client Sample ID	(15-110)
480-182715-1	MW-4D	28
480-182715-3	MW-3DD	26
480-182715-3 MS	MW-3DD	29
480-182715-3 MSD	MW-3DD	29
480-182715-4	MW-3D	27
480-182715-5	MW-1D	20
480-182715-6	MW-4DD	35
480-182715-7	EB	29
480-182715-8	DUPLICATE	27
LCS 480-575017/2-A	Lab Control Sample	30
MB 480-575017/1-A	Method Blank	31

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA	PFHxA	C4PFHA	PFOA	PFNA	PFDA	PFUnA
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)
480-182715-1	MW-4D	37	53	65	70	86	75	81	77
480-182715-3	MW-3DD	67	78	83	87	89	93	93	90
480-182715-3 MS	MW-3DD	71	79	81	87	87	87	91	87
480-182715-3 MSD	MW-3DD	71	82	87	94	94	98	95	93
480-182715-4	MW-3D	29	45	60	72	90	96	95	80
480-182715-5	MW-1D	21 *5-	35	49	68	91	90	115	105
480-182715-6	MW-4DD	68	66	65	72	78	60	50	42
480-182715-7	EB	90	84	89	92	93	93	96	93
480-182715-8	DUPLICATE	70	74	78	84	92	99	87	89
LCS 320-476039/2-A	Lab Control Sample	89	98	100	101	97	100	97	99
MB 320-476039/1-A	Method Blank	85	84	83	99	95	95	94	85

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoA	PFTDA	C3PFBS	PFHxS	PFOS	PFOSA	d3NMFOS	d5NEFOS
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)
480-182715-1	MW-4D	62	64	70	87	80	83	75	75
480-182715-3	MW-3DD	78	75	75	81	82	90	105	123
480-182715-3 MS	MW-3DD	76	76	79	89	83	88	98	114
480-182715-3 MSD	MW-3DD	76	74	85	90	92	99	107	118
480-182715-4	MW-3D	79	86	91	107	107	97	93	92
480-182715-5	MW-1D	97	108	94	108	123	99	81	99
480-182715-6	MW-4DD	45	49	69	82	59	69	35	46
480-182715-7	EB	86	93	86	107	93	100	101	102
480-182715-8	DUPLICATE	59	61	83	96	87	98	82	79
LCS 320-476039/2-A	Lab Control Sample	95	89	95	92	90	92	117	118
MB 320-476039/1-A	Method Blank	90	80	88	97	93	96	99	98

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		M262FTS	M282FTS
Lab Sample ID	Client Sample ID	(25-150)	(25-150)
480-182715-1	MW-4D	191 *5+	141

Isotope Dilution Summary

Client: New York State D.E.C. Job ID: 480-182715-1
Project/Site: Former Raeco Products #828107

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)								
480-182715-3	MW-3DD	90	95								
480-182715-3 MS	MW-3DD	95	95								
480-182715-3 MSD	MW-3DD	95	109								
480-182715-4	MW-3D	281 *5+	233 *5+								
480-182715-5	MW-1D	322 *5+	300 *5+								
480-182715-6	MW-4DD	117	87								
480-182715-7	EB	109	141								
480-182715-8	DUPLICATE	240 *5+	187 *5+								
LCS 320-476039/2-A	Lab Control Sample	62	71								
MB 320-476039/1-A	Method Blank	107	126								

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-574982/7
Matrix: Water
Analysis Batch: 574982

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/05/21 11:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/05/21 11:02	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/05/21 11:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/05/21 11:02	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/05/21 11:02	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/05/21 11:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/05/21 11:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/05/21 11:02	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/05/21 11:02	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/05/21 11:02	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/05/21 11:02	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/05/21 11:02	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/05/21 11:02	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/05/21 11:02	1
2-Hexanone	ND		5.0	1.2	ug/L			04/05/21 11:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/05/21 11:02	1
Acetone	ND		10	3.0	ug/L			04/05/21 11:02	1
Benzene	ND		1.0	0.41	ug/L			04/05/21 11:02	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/05/21 11:02	1
Bromoform	ND		1.0	0.26	ug/L			04/05/21 11:02	1
Bromomethane	ND		1.0	0.69	ug/L			04/05/21 11:02	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/05/21 11:02	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/05/21 11:02	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/05/21 11:02	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/05/21 11:02	1
Chloroethane	ND		1.0	0.32	ug/L			04/05/21 11:02	1
Chloroform	ND		1.0	0.34	ug/L			04/05/21 11:02	1
Chloromethane	ND		1.0	0.35	ug/L			04/05/21 11:02	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/05/21 11:02	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/05/21 11:02	1
Cyclohexane	ND		1.0	0.18	ug/L			04/05/21 11:02	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/05/21 11:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/05/21 11:02	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/05/21 11:02	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/05/21 11:02	1
Methyl acetate	ND		2.5	1.3	ug/L			04/05/21 11:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/05/21 11:02	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/05/21 11:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/05/21 11:02	1
Styrene	ND		1.0	0.73	ug/L			04/05/21 11:02	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/05/21 11:02	1
Toluene	ND		1.0	0.51	ug/L			04/05/21 11:02	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/05/21 11:02	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/05/21 11:02	1
Trichloroethene	ND		1.0	0.46	ug/L			04/05/21 11:02	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/05/21 11:02	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/05/21 11:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/05/21 11:02	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-574982/7
Matrix: Water
Analysis Batch: 574982

Client Sample ID: Method Blank
Prep Type: Total/NA

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					04/05/21 11:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	113		80 - 120		04/05/21 11:02	1
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		04/05/21 11:02	1
4-Bromofluorobenzene (Surr)	110		73 - 120		04/05/21 11:02	1
Dibromofluoromethane (Surr)	110		75 - 123		04/05/21 11:02	1

Lab Sample ID: LCS 480-574982/5
Matrix: Water
Analysis Batch: 574982

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.4		ug/L		102	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.0		ug/L		104	76 - 120
1,1,2-Trichloroethane	25.0	25.8		ug/L		103	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.1		ug/L		105	61 - 148
1,1-Dichloroethane	25.0	25.4		ug/L		102	77 - 120
1,1-Dichloroethene	25.0	24.8		ug/L		99	66 - 127
1,2,4-Trichlorobenzene	25.0	27.4		ug/L		110	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	21.9		ug/L		87	56 - 134
1,2-Dichlorobenzene	25.0	28.0		ug/L		112	80 - 124
1,2-Dichloroethane	25.0	24.9		ug/L		100	75 - 120
1,2-Dichloropropane	25.0	25.2		ug/L		101	76 - 120
1,3-Dichlorobenzene	25.0	28.7		ug/L		115	77 - 120
1,4-Dichlorobenzene	25.0	27.5		ug/L		110	80 - 120
2-Butanone (MEK)	125	119		ug/L		95	57 - 140
2-Hexanone	125	122		ug/L		98	65 - 127
4-Methyl-2-pentanone (MIBK)	125	120		ug/L		96	71 - 125
Acetone	125	125		ug/L		100	56 - 142
Benzene	25.0	24.5		ug/L		98	71 - 124
Bromodichloromethane	25.0	24.8		ug/L		99	80 - 122
Bromoform	25.0	24.9		ug/L		100	61 - 132
Bromomethane	25.0	24.6		ug/L		98	55 - 144
Carbon disulfide	25.0	24.9		ug/L		99	59 - 134
Carbon tetrachloride	25.0	25.5		ug/L		102	72 - 134
Chlorobenzene	25.0	26.9		ug/L		108	80 - 120
Dibromochloromethane	25.0	26.7		ug/L		107	75 - 125
Chloroethane	25.0	21.7		ug/L		87	69 - 136
Chloroform	25.0	25.4		ug/L		102	73 - 127
Chloromethane	25.0	24.2		ug/L		97	68 - 124
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	74 - 124
cis-1,3-Dichloropropene	25.0	24.9		ug/L		100	74 - 124
Cyclohexane	25.0	25.4		ug/L		102	59 - 135
Dichlorodifluoromethane	25.0	23.5		ug/L		94	59 - 135
Ethylbenzene	25.0	26.4		ug/L		106	77 - 123
1,2-Dibromoethane	25.0	26.1		ug/L		104	77 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-574982/5
Matrix: Water
Analysis Batch: 574982

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	25.0	27.8		ug/L		111	77 - 122
Methyl acetate	50.0	46.4		ug/L		93	74 - 133
Methyl tert-butyl ether	25.0	24.4		ug/L		98	77 - 120
Methylcyclohexane	25.0	25.4		ug/L		101	68 - 134
Methylene Chloride	25.0	25.1		ug/L		100	75 - 124
Styrene	25.0	26.4		ug/L		105	80 - 120
Tetrachloroethene	25.0	26.5		ug/L		106	74 - 122
Toluene	25.0	27.3		ug/L		109	80 - 122
trans-1,2-Dichloroethene	25.0	25.8		ug/L		103	73 - 127
trans-1,3-Dichloropropene	25.0	26.3		ug/L		105	80 - 120
Trichloroethene	25.0	24.9		ug/L		100	74 - 123
Trichlorofluoromethane	25.0	27.6		ug/L		110	62 - 150
Vinyl chloride	25.0	25.4		ug/L		102	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*114*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*
4-Bromofluorobenzene (Surr)	*112*		*73 - 120*
Dibromofluoromethane (Surr)	*109*		*75 - 123*

Lab Sample ID: 480-182715-3 MS
Matrix: Water
Analysis Batch: 574982

Client Sample ID: MW-3DD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		25.0	31.5		ug/L		126	73 - 126
1,1,2,2-Tetrachloroethane	ND	F1	25.0	30.7	F1	ug/L		123	76 - 120
1,1,2-Trichloroethane	ND		25.0	28.9		ug/L		116	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	28.3		ug/L		113	61 - 148
1,1-Dichloroethane	ND	F1	25.0	30.9	F1	ug/L		123	77 - 120
1,1-Dichloroethene	ND	F1	25.0	32.4	F1	ug/L		129	66 - 127
1,2,4-Trichlorobenzene	ND		25.0	29.3		ug/L		117	79 - 122
1,2-Dibromo-3-Chloropropane	ND		25.0	27.3		ug/L		109	56 - 134
1,2-Dichlorobenzene	ND		25.0	31.1		ug/L		124	80 - 124
1,2-Dichloroethane	ND		25.0	29.8		ug/L		119	75 - 120
1,2-Dichloropropane	ND	F1	25.0	30.2	F1	ug/L		121	76 - 120
1,3-Dichlorobenzene	ND	F1	25.0	30.1		ug/L		120	77 - 120
1,4-Dichlorobenzene	ND		25.0	29.3		ug/L		117	78 - 124
2-Butanone (MEK)	ND		125	150		ug/L		120	57 - 140
2-Hexanone	ND		125	152		ug/L		122	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		125	145		ug/L		116	71 - 125
Acetone	ND		125	144		ug/L		115	56 - 142
Benzene	0.49	J	25.0	30.4		ug/L		120	71 - 124
Bromodichloromethane	ND		25.0	28.8		ug/L		115	80 - 122
Bromoform	ND		25.0	25.4		ug/L		102	61 - 132
Bromomethane	ND	F2	25.0	29.0		ug/L		116	55 - 144
Carbon disulfide	ND		25.0	28.9		ug/L		115	59 - 134
Carbon tetrachloride	ND		25.0	31.4		ug/L		126	72 - 134

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-182715-3 MS
Matrix: Water
Analysis Batch: 574982

Client Sample ID: MW-3DD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	ND		25.0	29.2		ug/L		117	80 - 120
Dibromochloromethane	ND		25.0	28.3		ug/L		113	75 - 125
Chloroethane	ND		25.0	26.5		ug/L		106	69 - 136
Chloroform	ND		25.0	30.1		ug/L		120	73 - 127
Chloromethane	ND		25.0	26.0		ug/L		104	68 - 124
cis-1,2-Dichloroethene	ND		25.0	29.9		ug/L		120	74 - 124
cis-1,3-Dichloropropene	ND		25.0	27.0		ug/L		108	74 - 124
Cyclohexane	ND		25.0	28.7		ug/L		115	59 - 135
Dichlorodifluoromethane	ND		25.0	25.5		ug/L		102	59 - 135
Ethylbenzene	ND		25.0	28.9		ug/L		116	77 - 123
1,2-Dibromoethane	ND		25.0	29.2		ug/L		117	77 - 120
Isopropylbenzene	ND	F1	25.0	30.8	F1	ug/L		123	77 - 122
Methyl acetate	ND		50.0	55.9		ug/L		112	74 - 133
Methyl tert-butyl ether	ND		25.0	28.3		ug/L		113	77 - 120
Methylcyclohexane	ND		25.0	27.9		ug/L		112	68 - 134
Methylene Chloride	ND		25.0	29.6		ug/L		118	75 - 124
Styrene	ND		25.0	28.0		ug/L		112	80 - 120
Tetrachloroethene	ND		25.0	30.2		ug/L		121	74 - 122
Toluene	ND	F1	25.0	30.1		ug/L		120	80 - 122
trans-1,2-Dichloroethene	ND		25.0	31.5		ug/L		126	73 - 127
trans-1,3-Dichloropropene	ND		25.0	28.5		ug/L		114	80 - 120
Trichloroethene	ND		25.0	30.2		ug/L		121	74 - 123
Trichlorofluoromethane	ND		25.0	32.2		ug/L		129	62 - 150
Vinyl chloride	ND		25.0	31.8		ug/L		127	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*
Dibromofluoromethane (Surr)	*109*		*75 - 123*

Lab Sample ID: 480-182715-3 MSD
Matrix: Water
Analysis Batch: 574982

Client Sample ID: MW-3DD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		25.0	31.6		ug/L		126	73 - 126	0	15
1,1,2,2-Tetrachloroethane	ND	F1	25.0	29.1		ug/L		116	76 - 120	5	15
1,1,2-Trichloroethane	ND		25.0	29.0		ug/L		116	76 - 122	0	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	29.6		ug/L		119	61 - 148	4	20
1,1-Dichloroethane	ND	F1	25.0	29.6		ug/L		118	77 - 120	4	20
1,1-Dichloroethene	ND	F1	25.0	30.5		ug/L		122	66 - 127	6	16
1,2,4-Trichlorobenzene	ND		25.0	29.2		ug/L		117	79 - 122	0	20
1,2-Dibromo-3-Chloropropane	ND		25.0	25.4		ug/L		102	56 - 134	7	15
1,2-Dichlorobenzene	ND		25.0	30.1		ug/L		120	80 - 124	3	20
1,2-Dichloroethane	ND		25.0	29.0		ug/L		116	75 - 120	3	20
1,2-Dichloropropane	ND	F1	25.0	29.6		ug/L		118	76 - 120	2	20
1,3-Dichlorobenzene	ND	F1	25.0	30.8	F1	ug/L		123	77 - 120	2	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-182715-3 MSD
Matrix: Water
Analysis Batch: 574982

Client Sample ID: MW-3DD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	ND		25.0	29.9		ug/L		120	78 - 124	2	20
2-Butanone (MEK)	ND		125	146		ug/L		117	57 - 140	3	20
2-Hexanone	ND		125	158		ug/L		126	65 - 127	4	15
4-Methyl-2-pentanone (MIBK)	ND		125	142		ug/L		113	71 - 125	2	35
Acetone	ND		125	136		ug/L		109	56 - 142	5	15
Benzene	0.49	J	25.0	29.3		ug/L		115	71 - 124	4	13
Bromodichloromethane	ND		25.0	27.8		ug/L		111	80 - 122	3	15
Bromoform	ND		25.0	26.7		ug/L		107	61 - 132	5	15
Bromomethane	ND	F2	25.0	23.6	F2	ug/L		94	55 - 144	20	15
Carbon disulfide	ND		25.0	27.5		ug/L		110	59 - 134	5	15
Carbon tetrachloride	ND		25.0	30.2		ug/L		121	72 - 134	4	15
Chlorobenzene	ND		25.0	30.1		ug/L		120	80 - 120	3	25
Dibromochloromethane	ND		25.0	29.7		ug/L		119	75 - 125	5	15
Chloroethane	ND		25.0	25.6		ug/L		102	69 - 136	4	15
Chloroform	ND		25.0	28.4		ug/L		114	73 - 127	6	20
Chloromethane	ND		25.0	27.1		ug/L		108	68 - 124	4	15
cis-1,2-Dichloroethene	ND		25.0	28.7		ug/L		115	74 - 124	4	15
cis-1,3-Dichloropropene	ND		25.0	26.7		ug/L		107	74 - 124	1	15
Cyclohexane	ND		25.0	29.3		ug/L		117	59 - 135	2	20
Dichlorodifluoromethane	ND		25.0	26.0		ug/L		104	59 - 135	2	20
Ethylbenzene	ND		25.0	29.7		ug/L		119	77 - 123	3	15
1,2-Dibromoethane	ND		25.0	29.5		ug/L		118	77 - 120	1	15
Isopropylbenzene	ND	F1	25.0	30.6		ug/L		122	77 - 122	1	20
Methyl acetate	ND		50.0	53.9		ug/L		108	74 - 133	4	20
Methyl tert-butyl ether	ND		25.0	27.0		ug/L		108	77 - 120	5	37
Methylcyclohexane	ND		25.0	29.8		ug/L		119	68 - 134	7	20
Methylene Chloride	ND		25.0	27.3		ug/L		109	75 - 124	8	15
Styrene	ND		25.0	28.9		ug/L		116	80 - 120	3	20
Tetrachloroethene	ND		25.0	30.6		ug/L		122	74 - 122	1	20
Toluene	ND	F1	25.0	30.8	F1	ug/L		123	80 - 122	2	15
trans-1,2-Dichloroethene	ND		25.0	30.8		ug/L		123	73 - 127	2	20
trans-1,3-Dichloropropene	ND		25.0	28.7		ug/L		115	80 - 120	0	15
Trichloroethene	ND		25.0	30.3		ug/L		121	74 - 123	0	16
Trichlorofluoromethane	ND		25.0	31.4		ug/L		126	62 - 150	2	20
Vinyl chloride	ND		25.0	30.1		ug/L		120	65 - 133	6	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*109*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*
Dibromofluoromethane (Surr)	*104*		*75 - 123*

Lab Sample ID: MB 480-575088/8
Matrix: Water
Analysis Batch: 575088

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/05/21 22:35	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-575088/8
Matrix: Water
Analysis Batch: 575088

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/05/21 22:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/05/21 22:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/05/21 22:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/05/21 22:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/05/21 22:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/05/21 22:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/05/21 22:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/05/21 22:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/05/21 22:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/05/21 22:35	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/05/21 22:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/05/21 22:35	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/05/21 22:35	1
2-Hexanone	ND		5.0	1.2	ug/L			04/05/21 22:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/05/21 22:35	1
Acetone	ND		10	3.0	ug/L			04/05/21 22:35	1
Benzene	ND		1.0	0.41	ug/L			04/05/21 22:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/05/21 22:35	1
Bromoform	ND		1.0	0.26	ug/L			04/05/21 22:35	1
Bromomethane	ND		1.0	0.69	ug/L			04/05/21 22:35	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/05/21 22:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/05/21 22:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/05/21 22:35	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/05/21 22:35	1
Chloroethane	ND		1.0	0.32	ug/L			04/05/21 22:35	1
Chloroform	ND		1.0	0.34	ug/L			04/05/21 22:35	1
Chloromethane	ND		1.0	0.35	ug/L			04/05/21 22:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/05/21 22:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/05/21 22:35	1
Cyclohexane	ND		1.0	0.18	ug/L			04/05/21 22:35	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/05/21 22:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/05/21 22:35	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/05/21 22:35	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/05/21 22:35	1
Methyl acetate	ND		2.5	1.3	ug/L			04/05/21 22:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/05/21 22:35	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/05/21 22:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/05/21 22:35	1
Styrene	ND		1.0	0.73	ug/L			04/05/21 22:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/05/21 22:35	1
Toluene	ND		1.0	0.51	ug/L			04/05/21 22:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/05/21 22:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/05/21 22:35	1
Trichloroethene	ND		1.0	0.46	ug/L			04/05/21 22:35	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/05/21 22:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/05/21 22:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/05/21 22:35	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-575088/8
Matrix: Water
Analysis Batch: 575088

Client Sample ID: Method Blank
Prep Type: Total/NA

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					04/05/21 22:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		04/05/21 22:35	1
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		04/05/21 22:35	1
4-Bromofluorobenzene (Surr)	95		73 - 120		04/05/21 22:35	1
Dibromofluoromethane (Surr)	105		75 - 123		04/05/21 22:35	1

Lab Sample ID: LCS 480-575088/6
Matrix: Water
Analysis Batch: 575088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	26.9		ug/L		108	73 - 126
1,1,2,2-Tetrachloroethane	25.0	27.7		ug/L		111	76 - 120
1,1,2-Trichloroethane	25.0	27.2		ug/L		109	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.9		ug/L		115	61 - 148
1,1-Dichloroethane	25.0	29.7		ug/L		119	77 - 120
1,1-Dichloroethene	25.0	30.7		ug/L		123	66 - 127
1,2,4-Trichlorobenzene	25.0	29.9		ug/L		119	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	30.4		ug/L		122	56 - 134
1,2-Dichlorobenzene	25.0	28.1		ug/L		112	80 - 124
1,2-Dichloroethane	25.0	28.5		ug/L		114	75 - 120
1,2-Dichloropropane	25.0	28.9		ug/L		116	76 - 120
1,3-Dichlorobenzene	25.0	28.0		ug/L		112	77 - 120
1,4-Dichlorobenzene	25.0	27.4		ug/L		109	80 - 120
2-Butanone (MEK)	125	152		ug/L		121	57 - 140
2-Hexanone	125	134		ug/L		108	65 - 127
4-Methyl-2-pentanone (MIBK)	125	141		ug/L		113	71 - 125
Acetone	125	205	*+	ug/L		164	56 - 142
Benzene	25.0	28.9		ug/L		115	71 - 124
Bromodichloromethane	25.0	31.0	*+	ug/L		124	80 - 122
Bromoform	25.0	29.5		ug/L		118	61 - 132
Bromomethane	25.0	28.2		ug/L		113	55 - 144
Carbon disulfide	25.0	31.0		ug/L		124	59 - 134
Carbon tetrachloride	25.0	26.1		ug/L		105	72 - 134
Chlorobenzene	25.0	27.5		ug/L		110	80 - 120
Dibromochloromethane	25.0	32.6	*+	ug/L		131	75 - 125
Chloroethane	25.0	28.4		ug/L		114	69 - 136
Chloroform	25.0	27.2		ug/L		109	73 - 127
Chloromethane	25.0	28.0		ug/L		112	68 - 124
cis-1,2-Dichloroethene	25.0	28.8		ug/L		115	74 - 124
cis-1,3-Dichloropropene	25.0	26.7		ug/L		107	74 - 124
Cyclohexane	25.0	28.4		ug/L		114	59 - 135
Dichlorodifluoromethane	25.0	24.1		ug/L		96	59 - 135
Ethylbenzene	25.0	27.8		ug/L		111	77 - 123
1,2-Dibromoethane	25.0	27.7		ug/L		111	77 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-575088/6
Matrix: Water
Analysis Batch: 575088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	25.0	29.2		ug/L		117	77 - 122
Methyl acetate	50.0	58.7		ug/L		117	74 - 133
Methyl tert-butyl ether	25.0	30.9	*+	ug/L		124	77 - 120
Methylcyclohexane	25.0	26.7		ug/L		107	68 - 134
Methylene Chloride	25.0	29.7		ug/L		119	75 - 124
Styrene	25.0	27.8		ug/L		111	80 - 120
Tetrachloroethene	25.0	27.2		ug/L		109	74 - 122
Toluene	25.0	27.6		ug/L		110	80 - 122
trans-1,2-Dichloroethene	25.0	28.6		ug/L		115	73 - 127
trans-1,3-Dichloropropene	25.0	26.5		ug/L		106	80 - 120
Trichloroethene	25.0	28.6		ug/L		114	74 - 123
Trichlorofluoromethane	25.0	26.6		ug/L		106	62 - 150
Vinyl chloride	25.0	27.6		ug/L		110	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-575017/1-A
Matrix: Water
Analysis Batch: 575272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		04/05/21 08:28	04/06/21 15:20	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*31*		*15 - 110*	*04/05/21 08:28*	*04/06/21 15:20*	*1*

Lab Sample ID: LCS 480-575017/2-A
Matrix: Water
Analysis Batch: 575272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575017

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.00	1.05		ug/L		105	40 - 140

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*30*		*15 - 110*

Lab Sample ID: 480-182715-3 MS
Matrix: Water
Analysis Batch: 575272

Client Sample ID: MW-3DD
Prep Type: Total/NA
Prep Batch: 575017

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.32		0.980	1.39	E	ug/L		109	40 - 140

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
1,4-Dioxane-d8	29		15 - 110

Lab Sample ID: 480-182715-3 MSD
Matrix: Water
Analysis Batch: 575272

Client Sample ID: MW-3DD
Prep Type: Total/NA
Prep Batch: 575017

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	0.32		1.04	1.35	E	ug/L		99	40 - 140	3	20

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
1,4-Dioxane-d8	29		15 - 110

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-476039/1-A
Matrix: Water
Analysis Batch: 476801

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 476039

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		5.0	2.4	ng/L		04/01/21 19:15	04/05/21 06:37	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.49	ng/L		04/01/21 19:15	04/05/21 06:37	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.58	ng/L		04/01/21 19:15	04/05/21 06:37	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.25	ng/L		04/01/21 19:15	04/05/21 06:37	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.85	ng/L		04/01/21 19:15	04/05/21 06:37	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		04/01/21 19:15	04/05/21 06:37	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.31	ng/L		04/01/21 19:15	04/05/21 06:37	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1	ng/L		04/01/21 19:15	04/05/21 06:37	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		04/01/21 19:15	04/05/21 06:37	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	1.3	ng/L		04/01/21 19:15	04/05/21 06:37	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.73	ng/L		04/01/21 19:15	04/05/21 06:37	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.20	ng/L		04/01/21 19:15	04/05/21 06:37	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.57	ng/L		04/01/21 19:15	04/05/21 06:37	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19	ng/L		04/01/21 19:15	04/05/21 06:37	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.54	ng/L		04/01/21 19:15	04/05/21 06:37	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32	ng/L		04/01/21 19:15	04/05/21 06:37	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0	0.98	ng/L		04/01/21 19:15	04/05/21 06:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	1.2	ng/L		04/01/21 19:15	04/05/21 06:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	1.3	ng/L		04/01/21 19:15	04/05/21 06:37	1
6:2 FTS	ND		5.0	2.5	ng/L		04/01/21 19:15	04/05/21 06:37	1
8:2 FTS	ND		2.0	0.46	ng/L		04/01/21 19:15	04/05/21 06:37	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	85		25 - 150	04/01/21 19:15	04/05/21 06:37	1
13C5 PFPeA	84		25 - 150	04/01/21 19:15	04/05/21 06:37	1
13C2 PFHxA	83		25 - 150	04/01/21 19:15	04/05/21 06:37	1
13C4 PFHpA	99		25 - 150	04/01/21 19:15	04/05/21 06:37	1
13C4 PFOA	95		25 - 150	04/01/21 19:15	04/05/21 06:37	1
13C5 PFNA	95		25 - 150	04/01/21 19:15	04/05/21 06:37	1
13C2 PFDA	94		25 - 150	04/01/21 19:15	04/05/21 06:37	1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-476039/1-A
Matrix: Water
Analysis Batch: 476801

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 476039

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	85		25 - 150	04/01/21 19:15	04/05/21 06:37	1
13C2 PFDoA	90		25 - 150	04/01/21 19:15	04/05/21 06:37	1
13C2 PFTeDA	80		25 - 150	04/01/21 19:15	04/05/21 06:37	1
13C3 PFBS	88		25 - 150	04/01/21 19:15	04/05/21 06:37	1
18O2 PFHxS	97		25 - 150	04/01/21 19:15	04/05/21 06:37	1
13C4 PFOS	93		25 - 150	04/01/21 19:15	04/05/21 06:37	1
13C8 FOSA	96		25 - 150	04/01/21 19:15	04/05/21 06:37	1
d3-NMeFOSAA	99		25 - 150	04/01/21 19:15	04/05/21 06:37	1
d5-NEtFOSAA	98		25 - 150	04/01/21 19:15	04/05/21 06:37	1
M2-6:2 FTS	107		25 - 150	04/01/21 19:15	04/05/21 06:37	1
M2-8:2 FTS	126		25 - 150	04/01/21 19:15	04/05/21 06:37	1

Lab Sample ID: LCS 320-476039/2-A
Matrix: Water
Analysis Batch: 477640

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 476039

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	44.8		ng/L		112	76 - 136
Perfluoropentanoic acid (PFPeA)	40.0	42.3		ng/L		106	71 - 131
Perfluorohexanoic acid (PFHxA)	40.0	43.7		ng/L		109	73 - 133
Perfluoroheptanoic acid (PFHpA)	40.0	45.8		ng/L		115	72 - 132
Perfluorooctanoic acid (PFOA)	40.0	43.7		ng/L		109	70 - 130
Perfluorononanoic acid (PFNA)	40.0	47.0		ng/L		118	75 - 135
Perfluorodecanoic acid (PFDA)	40.0	42.0		ng/L		105	76 - 136
Perfluoroundecanoic acid (PFUnA)	40.0	42.8		ng/L		107	68 - 128
Perfluorododecanoic acid (PFDoA)	40.0	49.8		ng/L		125	71 - 131
Perfluorotridecanoic acid (PFTriA)	40.0	41.5		ng/L		104	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	45.3		ng/L		113	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	36.2		ng/L		102	67 - 127
Perfluorohexanesulfonic acid (PFHxS)	36.4	42.0		ng/L		115	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	43.2		ng/L		113	76 - 136
Perfluorooctanesulfonic acid (PFOS)	37.1	44.7		ng/L		121	70 - 130
Perfluorodecanesulfonic acid (PFDS)	38.6	42.2		ng/L		109	71 - 131
Perfluorooctanesulfonamide (FOSA)	40.0	46.2		ng/L		116	73 - 133
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	36.7		ng/L		92	76 - 136
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	37.7		ng/L		94	76 - 136
6:2 FTS	37.9	43.2		ng/L		114	59 - 175
8:2 FTS	38.3	39.8		ng/L		104	75 - 135

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	89		25 - 150
13C5 PFPeA	98		25 - 150
13C2 PFHxA	100		25 - 150
13C4 PFHpA	101		25 - 150
13C4 PFOA	97		25 - 150
13C5 PFNA	100		25 - 150
13C2 PFDA	97		25 - 150
13C2 PFUnA	99		25 - 150
13C2 PFDoA	95		25 - 150
13C2 PFTeDA	89		25 - 150
13C3 PFBS	95		25 - 150
18O2 PFHxS	92		25 - 150
13C4 PFOS	90		25 - 150
13C8 FOSA	92		25 - 150
d3-NMeFOSAA	117		25 - 150
d5-NEtFOSAA	118		25 - 150
M2-6:2 FTS	62		25 - 150
M2-8:2 FTS	71		25 - 150

Lab Sample ID: 480-182715-3 MS
Matrix: Water
Analysis Batch: 477640

Client Sample ID: MW-3DD
Prep Type: Total/NA
Prep Batch: 476039

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	4.4	J	35.2	46.2		ng/L		118	76 - 136
Perfluoropentanoic acid (PFPeA)	2.5		35.2	41.4		ng/L		110	71 - 131
Perfluorohexanoic acid (PFHxA)	1.6	J	35.2	45.5		ng/L		124	73 - 133
Perfluoroheptanoic acid (PFHpA)	1.8		35.2	47.1		ng/L		129	72 - 132
Perfluorooctanoic acid (PFOA)	2.0		35.2	46.3		ng/L		126	70 - 130
Perfluorononanoic acid (PFNA)	1.3	J	35.2	46.0		ng/L		127	75 - 135
Perfluorodecanoic acid (PFDA)	0.91	J	35.2	42.3		ng/L		117	76 - 136
Perfluoroundecanoic acid (PFUnA)	ND		35.2	40.3		ng/L		114	68 - 128
Perfluorododecanoic acid (PFDoA)	ND		35.2	45.3		ng/L		129	71 - 131
Perfluorotridecanoic acid (PFTriA)	ND		35.2	40.1		ng/L		114	71 - 131
Perfluorotetradecanoic acid (PFTeA)	ND		35.2	44.2		ng/L		125	70 - 130
Perfluorobutanesulfonic acid (PFBS)	0.24	J I	31.1	37.5		ng/L		120	67 - 127
Perfluorohexanesulfonic acid (PFHxS)	ND	F1	32.1	40.6	F1	ng/L		127	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	ND		33.5	41.4		ng/L		123	76 - 136
Perfluorooctanesulfonic acid (PFOS)	2.9		32.7	43.9		ng/L		125	70 - 130
Perfluorodecanesulfonic acid (PFDS)	ND		34.0	40.0		ng/L		118	71 - 131
Perfluorooctanesulfonamide (FOSA)	ND		35.2	46.8		ng/L		133	73 - 133
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		35.2	36.9		ng/L		105	76 - 136
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		35.2	36.8		ng/L		104	76 - 136

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-182715-3 MS
Matrix: Water
Analysis Batch: 477640

Client Sample ID: MW-3DD
Prep Type: Total/NA
Prep Batch: 476039

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
6:2 FTS	ND		33.4	40.3		ng/L		121	59 - 175
8:2 FTS	ND		33.7	41.3		ng/L		122	75 - 135

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*71*		*25 - 150*
13C5 PFPeA	*79*		*25 - 150*
13C2 PFHxA	*81*		*25 - 150*
13C4 PFHpA	*87*		*25 - 150*
13C4 PFOA	*87*		*25 - 150*
13C5 PFNA	*87*		*25 - 150*
13C2 PFDA	*91*		*25 - 150*
13C2 PFUnA	*87*		*25 - 150*
13C2 PFDoA	*76*		*25 - 150*
13C2 PFTeDA	*76*		*25 - 150*
13C3 PFBS	*79*		*25 - 150*
18O2 PFHxS	*89*		*25 - 150*
13C4 PFOS	*83*		*25 - 150*
13C8 FOSA	*88*		*25 - 150*
d3-NMeFOSAA	*98*		*25 - 150*
d5-NEtFOSAA	*114*		*25 - 150*
M2-6:2 FTS	*95*		*25 - 150*
M2-8:2 FTS	*95*		*25 - 150*

Lab Sample ID: 480-182715-3 MSD
Matrix: Water
Analysis Batch: 477640

Client Sample ID: MW-3DD
Prep Type: Total/NA
Prep Batch: 476039

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	4.4	J	36.7	47.6		ng/L		118	76 - 136	3	30
Perfluoropentanoic acid (PFPeA)	2.5		36.7	43.0		ng/L		110	71 - 131	4	30
Perfluorohexanoic acid (PFHxA)	1.6	J	36.7	42.8		ng/L		112	73 - 133	6	30
Perfluoroheptanoic acid (PFHpA)	1.8		36.7	45.0		ng/L		118	72 - 132	4	30
Perfluorooctanoic acid (PFOA)	2.0		36.7	45.6		ng/L		119	70 - 130	2	30
Perfluorononanoic acid (PFNA)	1.3	J	36.7	44.8		ng/L		118	75 - 135	3	30
Perfluorodecanoic acid (PFDA)	0.91	J	36.7	45.8		ng/L		122	76 - 136	8	30
Perfluoroundecanoic acid (PFUnA)	ND		36.7	44.3		ng/L		121	68 - 128	9	30
Perfluorododecanoic acid (PFDoA)	ND		36.7	46.4		ng/L		126	71 - 131	2	30
Perfluorotridecanoic acid (PFTriA)	ND		36.7	42.8		ng/L		117	71 - 131	7	30
Perfluorotetradecanoic acid (PFTeA)	ND		36.7	44.8		ng/L		122	70 - 130	1	30
Perfluorobutanesulfonic acid (PFBS)	0.24	J I	32.5	35.7		ng/L		109	67 - 127	5	30
Perfluorohexanesulfonic acid (PFHxS)	ND	F1	33.4	39.7		ng/L		119	59 - 119	2	30
Perfluoroheptanesulfonic Acid (PFHpS)	ND		35.0	41.5		ng/L		119	76 - 136	0	30
Perfluorooctanesulfonic acid (PFOS)	2.9		34.1	43.2		ng/L		118	70 - 130	2	30

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-182715-3 MSD
Matrix: Water
Analysis Batch: 477640

Client Sample ID: MW-3DD
Prep Type: Total/NA
Prep Batch: 476039

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorodecanesulfonic acid (PFDS)	ND		35.4	33.6		ng/L		95	71 - 131	18	30
Perfluorooctanesulfonamide (FOSA)	ND		36.7	43.7		ng/L		119	73 - 133	7	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		36.7	36.9		ng/L		101	76 - 136	0	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		36.7	35.2		ng/L		96	76 - 136	5	30
6:2 FTS	ND		34.8	39.2		ng/L		113	59 - 175	3	30
8:2 FTS	ND		35.2	36.7		ng/L		104	75 - 135	12	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*71*		*25 - 150*
13C5 PFPeA	*82*		*25 - 150*
13C2 PFHxA	*87*		*25 - 150*
13C4 PFHpA	*94*		*25 - 150*
13C4 PFOA	*94*		*25 - 150*
13C5 PFNA	*98*		*25 - 150*
13C2 PFDA	*95*		*25 - 150*
13C2 PFUnA	*93*		*25 - 150*
13C2 PFDoA	*76*		*25 - 150*
13C2 PFTeDA	*74*		*25 - 150*
13C3 PFBS	*85*		*25 - 150*
18O2 PFHxS	*90*		*25 - 150*
13C4 PFOS	*92*		*25 - 150*
13C8 FOSA	*99*		*25 - 150*
d3-NMeFOSAA	*107*		*25 - 150*
d5-NEtFOSAA	*118*		*25 - 150*
M2-6:2 FTS	*95*		*25 - 150*
M2-8:2 FTS	*109*		*25 - 150*

QC Association Summary

Client: New York State D.E.C.
Project/Site: Former Raeco Products #828107

Job ID: 480-182715-1

GC/MS VOA

Analysis Batch: 574982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182715-1	MW-4D	Total/NA	Water	8260C	
480-182715-2	MW-6D	Total/NA	Water	8260C	
480-182715-3	MW-3DD	Total/NA	Water	8260C	
480-182715-4	MW-3D	Total/NA	Water	8260C	
480-182715-5	MW-1D	Total/NA	Water	8260C	
MB 480-574982/7	Method Blank	Total/NA	Water	8260C	
LCS 480-574982/5	Lab Control Sample	Total/NA	Water	8260C	
480-182715-3 MS	MW-3DD	Total/NA	Water	8260C	
480-182715-3 MSD	MW-3DD	Total/NA	Water	8260C	

Analysis Batch: 575088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182715-6	MW-4DD	Total/NA	Water	8260C	
480-182715-8	DUPLICATE	Total/NA	Water	8260C	
480-182715-9	TB	Total/NA	Water	8260C	
MB 480-575088/8	Method Blank	Total/NA	Water	8260C	
LCS 480-575088/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 575017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182715-1	MW-4D	Total/NA	Water	3510C	
480-182715-3	MW-3DD	Total/NA	Water	3510C	
480-182715-4	MW-3D	Total/NA	Water	3510C	
480-182715-5	MW-1D	Total/NA	Water	3510C	
480-182715-6	MW-4DD	Total/NA	Water	3510C	
480-182715-7	EB	Total/NA	Water	3510C	
480-182715-8	DUPLICATE	Total/NA	Water	3510C	
MB 480-575017/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-575017/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-182715-3 MS	MW-3DD	Total/NA	Water	3510C	
480-182715-3 MSD	MW-3DD	Total/NA	Water	3510C	

Analysis Batch: 575272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182715-1	MW-4D	Total/NA	Water	8270D SIM ID	575017
480-182715-3	MW-3DD	Total/NA	Water	8270D SIM ID	575017
480-182715-6	MW-4DD	Total/NA	Water	8270D SIM ID	575017
480-182715-7	EB	Total/NA	Water	8270D SIM ID	575017
480-182715-8	DUPLICATE	Total/NA	Water	8270D SIM ID	575017
MB 480-575017/1-A	Method Blank	Total/NA	Water	8270D SIM ID	575017
LCS 480-575017/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	575017
480-182715-3 MS	MW-3DD	Total/NA	Water	8270D SIM ID	575017
480-182715-3 MSD	MW-3DD	Total/NA	Water	8270D SIM ID	575017

Analysis Batch: 575452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182715-5	MW-1D	Total/NA	Water	8270D SIM ID	575017

GC/MS Semi VOA

Analysis Batch: 575631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182715-4	MW-3D	Total/NA	Water	8270D SIM ID	575017

LCMS

Prep Batch: 476039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182715-1	MW-4D	Total/NA	Water	3535	
480-182715-3	MW-3DD	Total/NA	Water	3535	
480-182715-4	MW-3D	Total/NA	Water	3535	
480-182715-5	MW-1D	Total/NA	Water	3535	
480-182715-6	MW-4DD	Total/NA	Water	3535	
480-182715-7	EB	Total/NA	Water	3535	
480-182715-8	DUPLICATE	Total/NA	Water	3535	
MB 320-476039/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-476039/2-A	Lab Control Sample	Total/NA	Water	3535	
480-182715-3 MS	MW-3DD	Total/NA	Water	3535	
480-182715-3 MSD	MW-3DD	Total/NA	Water	3535	

Analysis Batch: 476801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182715-1	MW-4D	Total/NA	Water	537 (modified)	476039
480-182715-4	MW-3D	Total/NA	Water	537 (modified)	476039
480-182715-5	MW-1D	Total/NA	Water	537 (modified)	476039
480-182715-6	MW-4DD	Total/NA	Water	537 (modified)	476039
480-182715-7	EB	Total/NA	Water	537 (modified)	476039
480-182715-8	DUPLICATE	Total/NA	Water	537 (modified)	476039
MB 320-476039/1-A	Method Blank	Total/NA	Water	537 (modified)	476039

Analysis Batch: 477640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182715-3	MW-3DD	Total/NA	Water	537 (modified)	476039
LCS 320-476039/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	476039
480-182715-3 MS	MW-3DD	Total/NA	Water	537 (modified)	476039
480-182715-3 MSD	MW-3DD	Total/NA	Water	537 (modified)	476039

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-182715-1
Project/Site: Former Raeco Products #828107

Client Sample ID: MW-4D
Lab Sample ID: 480-182715-1
Date Collected: 03/29/21 15:40
Matrix: Water
Date Received: 04/01/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	574982	04/05/21 14:50	AMM	TAL BUF
Total/NA	Prep	3510C			575017	04/05/21 08:28	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	575272	04/06/21 20:50	IMZ	TAL BUF
Total/NA	Prep	3535			476039	04/01/21 19:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	476801	04/05/21 07:13	K1S	TAL SAC

Client Sample ID: MW-6D
Lab Sample ID: 480-182715-2
Date Collected: 03/30/21 11:20
Matrix: Water
Date Received: 04/01/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	574982	04/05/21 15:14	AMM	TAL BUF

Client Sample ID: MW-3DD
Lab Sample ID: 480-182715-3
Date Collected: 03/30/21 15:00
Matrix: Water
Date Received: 04/01/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	574982	04/05/21 15:38	AMM	TAL BUF
Total/NA	Prep	3510C			575017	04/05/21 08:28	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	575272	04/06/21 19:15	IMZ	TAL BUF
Total/NA	Prep	3535			476039	04/01/21 19:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	477640	04/07/21 15:43	S1M	TAL SAC

Client Sample ID: MW-3D
Lab Sample ID: 480-182715-4
Date Collected: 03/30/21 15:10
Matrix: Water
Date Received: 04/01/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	574982	04/05/21 16:02	AMM	TAL BUF
Total/NA	Prep	3510C			575017	04/05/21 08:28	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		20	575631	04/08/21 20:29	RJS	TAL BUF
Total/NA	Prep	3535			476039	04/01/21 19:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	476801	04/05/21 07:50	K1S	TAL SAC

Client Sample ID: MW-1D
Lab Sample ID: 480-182715-5
Date Collected: 03/30/21 17:20
Matrix: Water
Date Received: 04/01/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		200	574982	04/05/21 16:26	AMM	TAL BUF
Total/NA	Prep	3510C			575017	04/05/21 08:28	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		50	575452	04/08/21 01:48	IMZ	TAL BUF
Total/NA	Prep	3535			476039	04/01/21 19:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	476801	04/05/21 07:59	K1S	TAL SAC

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-182715-1
Project/Site: Former Raeco Products #828107

Client Sample ID: MW-4DD
Lab Sample ID: 480-182715-6
Date Collected: 03/31/21 08:15
Matrix: Water
Date Received: 04/01/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	575088	04/05/21 22:59	CRL	TAL BUF
Total/NA	Prep	3510C			575017	04/05/21 08:28	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	575272	04/06/21 22:01	IMZ	TAL BUF
Total/NA	Prep	3535			476039	04/01/21 19:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	476801	04/05/21 08:26	K1S	TAL SAC

Client Sample ID: EB
Lab Sample ID: 480-182715-7
Date Collected: 03/31/21 08:00
Matrix: Water
Date Received: 04/01/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			575017	04/05/21 08:28	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	575272	04/06/21 22:24	IMZ	TAL BUF
Total/NA	Prep	3535			476039	04/01/21 19:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	476801	04/05/21 08:35	K1S	TAL SAC

Client Sample ID: DUPLICATE
Lab Sample ID: 480-182715-8
Date Collected: 03/31/21 00:00
Matrix: Water
Date Received: 04/01/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	575088	04/05/21 23:22	CRL	TAL BUF
Total/NA	Prep	3510C			575017	04/05/21 08:28	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	575272	04/06/21 22:48	IMZ	TAL BUF
Total/NA	Prep	3535			476039	04/01/21 19:15	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	476801	04/05/21 08:44	K1S	TAL SAC

Client Sample ID: TB
Lab Sample ID: 480-182715-9
Date Collected: 03/31/21 00:00
Matrix: Water
Date Received: 04/01/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	575088	04/05/21 23:45	CRL	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: New York State D.E.C.
Job ID: 480-182715-1
Project/Site: Former Raeco Products #828107

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

Laboratory: Eurofins TestAmerica, Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11666	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537 (modified)	3535	Water	6:2 FTS
537 (modified)	3535	Water	8:2 FTS
537 (modified)	3535	Water	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	3535	Water	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537 (modified)	3535	Water	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	3535	Water	Perfluorobutanoic acid (PFBA)
537 (modified)	3535	Water	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	3535	Water	Perfluorodecanoic acid (PFDA)
537 (modified)	3535	Water	Perfluorododecanoic acid (PFDoA)
537 (modified)	3535	Water	Perfluoroheptanesulfonic Acid (PFHpS)
537 (modified)	3535	Water	Perfluoroheptanoic acid (PFHpA)
537 (modified)	3535	Water	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	3535	Water	Perfluorohexanoic acid (PFHxA)
537 (modified)	3535	Water	Perfluorononanoic acid (PFNA)
537 (modified)	3535	Water	Perfluorooctanesulfonamide (FOSA)
537 (modified)	3535	Water	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	3535	Water	Perfluorooctanoic acid (PFOA)
537 (modified)	3535	Water	Perfluoropentanoic acid (PFPeA)
537 (modified)	3535	Water	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	3535	Water	Perfluorotridecanoic acid (PFTriA)
537 (modified)	3535	Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: New York State D.E.C.
Project/Site: Former Raeco Products #828107

Job ID: 480-182715-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: New York State D.E.C.
Project/Site: Former Raeco Products #828107

Job ID: 480-182715-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-182715-1	MW-4D	Water	03/29/21 15:40	04/01/21 08:00	
480-182715-2	MW-6D	Water	03/30/21 11:20	04/01/21 08:00	
480-182715-3	MW-3DD	Water	03/30/21 15:00	04/01/21 08:00	
480-182715-4	MW-3D	Water	03/30/21 15:10	04/01/21 08:00	
480-182715-5	MW-1D	Water	03/30/21 17:20	04/01/21 08:00	
480-182715-6	MW-4DD	Water	03/31/21 08:15	04/01/21 08:00	
480-182715-7	EB	Water	03/31/21 08:00	04/01/21 08:00	
480-182715-8	DUPLICATE	Water	03/31/21 00:00	04/01/21 08:00	
480-182715-9	TB	Water	03/31/21 00:00	04/01/21 08:00	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

Albany #224

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Client Information	Sampler: STEFAN TRUEX/CHRIS SOMMA	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-158629-34873.2
Client Contact: Brianna Scharf	Phone: 518-877-7101	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin: NEW YORK	Page: 1 OF 1
Company: New York State D.E.C.	PWSID: N/A			Job #:
Address: 625 Broadway Division of Environmental Remediation	Due Date Requested: N/A			
City: Albany	TAT Requested (days): STANDARD (NYSDEC)			
State, Zip: NY, 12233-7014	Compliance Project: Δ Yes Δ No			
Phone: 518.402-8013	PO #: CallOut ID: 139727			
Email: Brianna.Scharf@dec.ny.gov	WO #: DEC1007.RA			
Project Name: Former Raeco Products #828107	Project #: 48023582			
Site: 24 SPENCER STREET ROCHESTER, NEW YORK	SSOW#: N/A			

Analysis Requested

Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, M - Hexane, N - None, O - AsNaO2, P - N...

480-182715 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2 + 10 TICs	PFC_IDA - PFAS, Standard List (21 Analytes)	8270D_SIM_MS_ID - 1,4-Dioxane	6010C, 7471B	8270D - TCL SVOA - OLM04.2	8260C - TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
Preservation Code:							A	N	N	N	N	N		
3.29.2021 MW-40	3/29/2021	1540	G	Water	N	N	X	X	X					
3.30.2021 MW-60	3/30/2021	1120	G	Water	N	N	X							
3.30.2021 MW-300	3/30/2021	1500	G	Water	N	N	X	X	X					
3.30.2021 MW-300 MS	3/30/2021	1500	G	Water	N	Y	X	X	X					MS
3.30.2021 MW-300 MSD	3/30/2021	1500	G	Water	N	Y	X	X	X					MSD
3.30.2021 MW-30	3/30/2021	1510	G	Water	N	N	X	X	X					
3.30.2021 MW-10	3/30/2021	1720	G	Water	N	N	X	X	X					
3.31.2021 MW-400	3/31/2021	815	G	Water	N	N	X	X	X					
3.31.2021 EB	3/31/2021	800	G	Water	N	N		X	X					EQUIPMENT BLANK
3.30.2021 DUPLICATE	—	—	G	Water	N	N	X	X	X					DUPLICATE
3.31.2021 TB	—	—	G	Water	N	N	X							TRIP BLANK

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/31/2021 1245	HRP		5-31-2021 1245	EETA
2	Tim Knollmeyer	3/31/2021 1700	EETA			
3					4/1/21 0900	TAT

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.2 T.1 #1

Ver: 11/01/2020

4/16/2021

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-182715-1

Login Number: 182715 **List Source: Eurofins TestAmerica, Buffalo**
List Number: 1
Creator: Stopa, Erik S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	nysdec
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-182715-1

Login Number: 182715
List Number: 2
Creator: Cahill, Nicholas P

List Source: Eurofins TestAmerica, Sacramento
List Creation: 04/01/21 01:39 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1449839
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-185887-1
Client Project/Site: Former Raeco Products #828107

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Brianna Scharf

Authorized for release by:
7/2/2021 12:18:49 PM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Orlette Johnson, Senior Project Manager
(484)685-0864
Orlette.Johnson@Eurofinset.com

LINKS

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I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Rebecca Jones
Project Management Assistant I
7/2/2021 12:18:49 PM

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-185887-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-185887-1

Comments
No additional comments.

Receipt
The samples were received on 6/11/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4º C.

GC/MS VOA
Method 8260C: The laboratory control sample (LCS) for preparation batch 480-585182 and analytical batch 480-585176 recovered outside control limits for the following analyte: Chloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following samples were affected : S-1A 0-2 (480-185887-1), S-1B 2-12 (480-185887-2), S-2A 0-2 (480-185887-3), S-3A 0-2 (480-185887-5) and S-3B 2-12 (480-185887-6).

Method 8260C: Internal standard (ISTD) response for the following sample was outside control limits: S-2B 2-12 (480-185887-4). The sample was re-analyzed and ISTD response was outside control limits.

Method 8260C: The laboratory control sample (LCS) for preparation batch 480-585343 and analytical batch 480-585327 recovered outside control limits for the following analyte: Chloroethane. This analyte was biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The associated sample is: S-2B 2-12 (480-185887-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: Surrogate recovery was outside acceptance limits for the following matrix spike duplicate (MSD) sample: S-3B 2-12 (480-185887-6[MSD]). The parent sample's surrogate recovery was within limits as well as the MS. The MSD sample has been qualified and reported.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-586077 recovered above the upper control limit for bis (2-chloroisopropyl) ether and Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: S-1A 0-2 (480-185887-1), S-1B 2-12 (480-185887-2), S-2A 0-2 (480-185887-3), S-2B 2-12 (480-185887-4), S-3A 0-2 (480-185887-5) and S-3B 2-12 (480-185887-6).

Method 8270D: The following samples were diluted due to color and appearance: S-1A 0-2 (480-185887-1), S-1B 2-12 (480-185887-2), S-2A 0-2 (480-185887-3) and S-2B 2-12 (480-185887-4). Elevated reporting limits (RL) are provided.

Method 8270D: The following sample required a dilution due to color and appearance: S-2B 2-12 (480-185887-4). Because of this dilution and an elevated final volume at prep, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: S-2A 0-2 (480-185887-3) and S-3A 0-2 (480-185887-5). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081B: The following samples were diluted due to the abundance of target analytes: S-3A 0-2 (480-185887-5) and S-3B 2-12 (480-185887-6). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Method 8081B: The following samples were diluted due to the abundance of target analytes: S-3B 2-12 (480-185887-6[MS]) and S-3B

Job ID: 480-185887-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

2-12 (480-185887-6[MSD]). As such, spike and surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Method 8081B: The following samples were diluted due to the nature of the sample matrix: S-1A 0-2 (480-185887-1), S-1B 2-12 (480-185887-2), S-2A 0-2 (480-185887-3) and S-2B 2-12 (480-185887-4). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010C: The method blank for preparation batch 480-585285 and analytical batch 480-585781 contained Total Aluminum, Chromium, and Manganese above the reporting limit (RL). Associated sample(s) S-1A 0-2 (480-185887-1), S-1B 2-12 (480-185887-2), S-2A 0-2 (480-185887-3), S-2B 2-12 (480-185887-4), S-3A 0-2 (480-185887-5) and S-3B 2-12 (480-185887-6) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 6010C: The recovery of post spike, (480-185887-C-6-A PDS), associated with batch 480-585781, exhibited results outside quality control limits for Total Calcium, Iron, Magnesium, Manganese, and Zinc. However, the serial dilution (SD) of this sample was compliant, therefore no corrective action was necessary.

Method 6010C: The following samples were diluted due to the presence of Total Calcium which interferes with Copper: S-2A 0-2 (480-185887-3) and S-2B 2-12 (480-185887-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-585471 and analytical batch 480-585554 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3550C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 8270 DS-1A 0-2 (480-185887-1) and S-1B 2-12 (480-185887-2). The reporting limits (RLs) have been adjusted proportionately.

Method 3550C: Due to the matrix, the following sample could not be concentrated to the final method required volume: S-2B 2-12 (480-185887-4). The reporting limits (RLs) are elevated proportionately.

Method 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: S-1A 0-2 (480-185887-1), S-1B 2-12 (480-185887-2), S-2A 0-2 (480-185887-3), S-2B 2-12 (480-185887-4), S-3A 0-2 (480-185887-5), S-3B 2-12 (480-185887-6), S-3B 2-12 (480-185887-6[MS]) and S-3B 2-12 (480-185887-6[MSD]).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: New York State D.E.C.
Project/Site: Former Raeco Products #828107

Job ID: 480-185887-1

Client Sample ID: S-1A 0-2 — Lab Sample ID: 480-185887-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	4.8	J vs	5.3	2.4	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	2.0	J vs	5.3	1.2	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	3800	J	10000	1000	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	5100	J	10000	1500	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	6800	J	10000	1600	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	4800	J	10000	1100	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	2700	J	10000	1300	ug/Kg	10	☼	8270D	Total/NA
Chrysene	4800	J	10000	2200	ug/Kg	10	☼	8270D	Total/NA
Dibenz(a,h)anthracene	2100	J	10000	1800	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	7900	J	10000	1100	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	4300	J	10000	1200	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	3900	J	10000	1500	ug/Kg	10	☼	8270D	Total/NA
Pyrene	7300	J	10000	1200	ug/Kg	10	☼	8270D	Total/NA
PCB-1248	0.16	J	0.19	0.038	mg/Kg	1	☼	8082A	Total/NA
Aluminum	4890	B	11.6	5.1	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.1		2.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	61.8		0.58	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.28		0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.47		0.23	0.035	mg/Kg	1	☼	6010C	Total/NA
Calcium	84900	B	57.9	3.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	22.0	B	0.58	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.9		0.58	0.058	mg/Kg	1	☼	6010C	Total/NA
Copper	20.2		1.2	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	8690	B	11.6	4.1	mg/Kg	1	☼	6010C	Total/NA
Lead	52.4		1.2	0.28	mg/Kg	1	☼	6010C	Total/NA
Magnesium	31000	B	23.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	310	B	0.23	0.037	mg/Kg	1	☼	6010C	Total/NA
Nickel	9.4		5.8	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	1340		34.7	23.2	mg/Kg	1	☼	6010C	Total/NA
Sodium	240		162	15.1	mg/Kg	1	☼	6010C	Total/NA
Vanadium	17.6		0.58	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	99.6		2.3	0.74	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.062		0.017	0.0071	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: S-1B 2-12 — Lab Sample ID: 480-185887-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	7.2	vs	5.3	2.4	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	1.2	J vs	5.3	1.2	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	4600	J	9800	980	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	5900	J	9800	1400	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	7900	J	9800	1600	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	5500	J	9800	1000	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	2900	J	9800	1300	ug/Kg	10	☼	8270D	Total/NA
Chrysene	5200	J	9800	2200	ug/Kg	10	☼	8270D	Total/NA
Dibenz(a,h)anthracene	1900	J	9800	1700	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	9300	J	9800	1000	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	4900	J	9800	1200	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	3700	J	9800	1400	ug/Kg	10	☼	8270D	Total/NA
Pyrene	7600	J	9800	1200	ug/Kg	10	☼	8270D	Total/NA
4,4'-DDT	24	J	89	21	ug/Kg	50	☼	8081B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample ID: S-1B 2-12 (Continued)

Lab Sample ID: 480-185887-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.14	J	0.19	0.089	mg/Kg	1	☼	8082A	Total/NA
Aluminum	5500	B	11.1	4.9	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.8		2.2	0.44	mg/Kg	1	☼	6010C	Total/NA
Barium	69.0		0.55	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.30		0.22	0.031	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.42		0.22	0.033	mg/Kg	1	☼	6010C	Total/NA
Calcium	86200	B	55.4	3.7	mg/Kg	1	☼	6010C	Total/NA
Chromium	17.8	B	0.55	0.22	mg/Kg	1	☼	6010C	Total/NA
Cobalt	3.5		0.55	0.055	mg/Kg	1	☼	6010C	Total/NA
Copper	25.6		1.1	0.23	mg/Kg	1	☼	6010C	Total/NA
Iron	9450	B	11.1	3.9	mg/Kg	1	☼	6010C	Total/NA
Lead	105		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	30500	B	22.2	1.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	372	B	0.22	0.035	mg/Kg	1	☼	6010C	Total/NA
Nickel	10.6		5.5	0.25	mg/Kg	1	☼	6010C	Total/NA
Potassium	1670		33.3	22.2	mg/Kg	1	☼	6010C	Total/NA
Silver	1.1		0.67	0.22	mg/Kg	1	☼	6010C	Total/NA
Sodium	306		155	14.4	mg/Kg	1	☼	6010C	Total/NA
Vanadium	19.5		0.55	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	151		2.2	0.71	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.14		0.022	0.0088	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: S-2A 0-2

Lab Sample ID: 480-185887-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	29	vs	25	4.1	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	7.7	vs	4.9	2.3	ug/Kg	1	☼	8260C	Total/NA
Bis(2-ethylhexyl) phthalate	13000		830	280	ug/Kg	5	☼	8270D	Total/NA
Di-n-butyl phthalate	690	J B	830	140	ug/Kg	5	☼	8270D	Total/NA
Aluminum	4580	B	10.5	4.6	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.5		2.1	0.42	mg/Kg	1	☼	6010C	Total/NA
Barium	24.5		0.53	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.19	J	0.21	0.030	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.11	J	0.21	0.032	mg/Kg	1	☼	6010C	Total/NA
Calcium	118000	B	105	7.0	mg/Kg	2	☼	6010C	Total/NA
Chromium	6.4	B	0.53	0.21	mg/Kg	1	☼	6010C	Total/NA
Cobalt	3.3		0.53	0.053	mg/Kg	1	☼	6010C	Total/NA
Copper	21.4		2.1	0.44	mg/Kg	2	☼	6010C	Total/NA
Iron	8470	B	10.5	3.7	mg/Kg	1	☼	6010C	Total/NA
Lead	6.7		1.1	0.25	mg/Kg	1	☼	6010C	Total/NA
Magnesium	29900	B	21.1	0.98	mg/Kg	1	☼	6010C	Total/NA
Manganese	530	B	0.21	0.034	mg/Kg	1	☼	6010C	Total/NA
Nickel	9.0		5.3	0.24	mg/Kg	1	☼	6010C	Total/NA
Potassium	1330		31.6	21.1	mg/Kg	1	☼	6010C	Total/NA
Sodium	125	J	148	13.7	mg/Kg	1	☼	6010C	Total/NA
Vanadium	9.1		0.53	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	68.4		2.1	0.67	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: S-2B 2-12

Lab Sample ID: 480-185887-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	6.0	vs	5.1	2.4	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: S-2B 2-12 (Continued)
Lab Sample ID: 480-185887-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	1200	J	8700	1100	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	2700	J	8700	1400	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	2700	J	8700	930	ug/Kg	5	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	12000		8700	3000	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	1900	J	8700	930	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	2400	J	8700	1100	ug/Kg	5	☼	8270D	Total/NA
Pyrene	1800	J	8700	1000	ug/Kg	5	☼	8270D	Total/NA
Aluminum	3710	B	10.8	4.8	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.4		2.2	0.43	mg/Kg	1	☼	6010C	Total/NA
Barium	60.5		0.54	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.17	J	0.22	0.030	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.18	J	0.22	0.032	mg/Kg	1	☼	6010C	Total/NA
Calcium	146000	B	108	7.1	mg/Kg	2	☼	6010C	Total/NA
Chromium	6.2	B	0.54	0.22	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.5		0.54	0.054	mg/Kg	1	☼	6010C	Total/NA
Copper	15.7		2.2	0.45	mg/Kg	2	☼	6010C	Total/NA
Iron	7490	B	10.8	3.8	mg/Kg	1	☼	6010C	Total/NA
Lead	18.1		1.1	0.26	mg/Kg	1	☼	6010C	Total/NA
Magnesium	79600	B	43.3	2.0	mg/Kg	2	☼	6010C	Total/NA
Manganese	390	B	0.22	0.035	mg/Kg	1	☼	6010C	Total/NA
Nickel	7.2		5.4	0.25	mg/Kg	1	☼	6010C	Total/NA
Potassium	1250		32.5	21.7	mg/Kg	1	☼	6010C	Total/NA
Sodium	302		152	14.1	mg/Kg	1	☼	6010C	Total/NA
Vanadium	11.6		0.54	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	110		2.2	0.69	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.0093	J	0.017	0.0070	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: S-3A 0-2
Lab Sample ID: 480-185887-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	4.0	J vs	4.9	2.3	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	66	J	170	17	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	97	J	170	25	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	120	J	170	27	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	96	J	170	18	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	58	J	170	22	ug/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	73	J	170	59	ug/Kg	1	☼	8270D	Total/NA
Chrysene	88	J	170	38	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	48	J	170	30	ug/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	52	J B	170	29	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	150	J	170	18	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	86	J	170	21	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	67	J	170	25	ug/Kg	1	☼	8270D	Total/NA
Pyrene	130	J	170	20	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDD	2.6	J	8.4	1.6	ug/Kg	5	☼	8081B	Total/NA
4,4'-DDE	64		8.4	1.8	ug/Kg	5	☼	8081B	Total/NA
4,4'-DDT	130		8.4	2.0	ug/Kg	5	☼	8081B	Total/NA
Endrin aldehyde	5.7	J	8.4	2.1	ug/Kg	5	☼	8081B	Total/NA
Methoxychlor	3.4	J	8.4	1.7	ug/Kg	5	☼	8081B	Total/NA
Aluminum	5780	B	10.4	4.6	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.9		2.1	0.41	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: S-3A 0-2 (Continued)
Lab Sample ID: 480-185887-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	80.3		0.52	0.11	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.28		0.21	0.029	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.43		0.21	0.031	mg/Kg	1	☼	6010C	Total/NA
Calcium	13300	B	51.8	3.4	mg/Kg	1	☼	6010C	Total/NA
Chromium	7.8	B	0.52	0.21	mg/Kg	1	☼	6010C	Total/NA
Cobalt	3.5		0.52	0.052	mg/Kg	1	☼	6010C	Total/NA
Copper	12.9		1.0	0.22	mg/Kg	1	☼	6010C	Total/NA
Iron	9300	B	10.4	3.6	mg/Kg	1	☼	6010C	Total/NA
Lead	76.1		1.0	0.25	mg/Kg	1	☼	6010C	Total/NA
Magnesium	5540	B	20.7	0.96	mg/Kg	1	☼	6010C	Total/NA
Manganese	219	B	0.21	0.033	mg/Kg	1	☼	6010C	Total/NA
Nickel	9.1		5.2	0.24	mg/Kg	1	☼	6010C	Total/NA
Potassium	785		31.1	20.7	mg/Kg	1	☼	6010C	Total/NA
Silver	3.8		0.62	0.21	mg/Kg	1	☼	6010C	Total/NA
Sodium	249		145	13.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	11.5		0.52	0.11	mg/Kg	1	☼	6010C	Total/NA
Zinc	101		2.1	0.66	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.050		0.020	0.0081	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: S-3B 2-12
Lab Sample ID: 480-185887-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	47	J F2	180	18	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	75	J F2 F1	180	26	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	100	J F2	180	28	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	77	J F2	180	19	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	30	J F2	180	23	ug/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	84	J F2	180	61	ug/Kg	1	☼	8270D	Total/NA
Chrysene	59	J F2 F1	180	40	ug/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	120	J F2 B	180	30	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	97	J F2	180	19	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	71	J F2	180	22	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	44	J F2	180	26	ug/Kg	1	☼	8270D	Total/NA
Pyrene	83	J F2	180	21	ug/Kg	1	☼	8270D	Total/NA
4,4'-DDE	45	F1	18	3.7	ug/Kg	10	☼	8081B	Total/NA
4,4'-DDT	94		18	4.1	ug/Kg	10	☼	8081B	Total/NA
Methoxychlor	3.7	J	18	3.6	ug/Kg	10	☼	8081B	Total/NA
Aluminum	5250	B F1	11.1	4.9	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.0		2.2	0.44	mg/Kg	1	☼	6010C	Total/NA
Barium	32.0		0.55	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.21	J	0.22	0.031	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.35		0.22	0.033	mg/Kg	1	☼	6010C	Total/NA
Calcium	15300	B	55.4	3.7	mg/Kg	1	☼	6010C	Total/NA
Chromium	6.8	B	0.55	0.22	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.9		0.55	0.055	mg/Kg	1	☼	6010C	Total/NA
Copper	9.5		1.1	0.23	mg/Kg	1	☼	6010C	Total/NA
Iron	12300	B F2	11.1	3.9	mg/Kg	1	☼	6010C	Total/NA
Lead	61.0	F1	1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	8560	B F1	22.1	1.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	181	B	0.22	0.035	mg/Kg	1	☼	6010C	Total/NA
Nickel	7.7		5.5	0.25	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: S-3B 2-12 (Continued)

Lab Sample ID: 480-185887-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	873	F1	33.2	22.1	mg/Kg	1	☼	6010C	Total/NA
Silver	2.6		0.66	0.22	mg/Kg	1	☼	6010C	Total/NA
Sodium	332		155	14.4	mg/Kg	1	☼	6010C	Total/NA
Vanadium	10.6		0.55	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	78.0	F1 F2	2.2	0.71	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.035	F2	0.017	0.0070	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: New York State D.E.C.
Job ID: 480-185887-1
Project/Site: Former Raeco Products #828107

Client Sample ID: S-1A 0-2
Lab Sample ID: 480-185887-1
Date Collected: 06/10/21 07:50
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 90.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.3	0.39	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
1,1,2,2-Tetrachloroethane	ND	vs	5.3	0.86	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
1,1,2-Trichloroethane	ND	vs	5.3	0.69	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.3	1.2	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
1,1-Dichloroethane	ND	vs	5.3	0.65	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
1,1-Dichloroethene	ND	vs	5.3	0.65	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
1,2,4-Trichlorobenzene	ND	vs	5.3	0.32	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.3	2.7	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
1,2-Dichlorobenzene	ND	vs	5.3	0.42	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
1,2-Dichloroethane	ND	vs	5.3	0.27	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
1,2-Dichloropropane	ND	vs	5.3	2.7	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
1,3-Dichlorobenzene	ND	vs	5.3	0.27	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
1,4-Dichlorobenzene	ND	vs	5.3	0.74	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
2-Butanone (MEK)	ND	vs	27	1.9	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
2-Hexanone	ND	vs	27	2.7	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
4-Methyl-2-pentanone (MIBK)	ND	vs	27	1.7	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Acetone	ND	vs	27	4.5	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Benzene	ND	vs	5.3	0.26	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Bromodichloromethane	ND	vs	5.3	0.71	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Bromoform	ND	vs	5.3	2.7	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Bromomethane	ND	vs	5.3	0.48	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Carbon disulfide	ND	vs	5.3	2.7	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Carbon tetrachloride	ND	vs	5.3	0.51	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Chlorobenzene	ND	vs	5.3	0.70	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Dibromochloromethane	ND	vs	5.3	0.68	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Chloroethane	ND	vs *+	5.3	1.2	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Chloroform	ND	vs	5.3	0.33	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Chloromethane	ND	vs	5.3	0.32	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
cis-1,2-Dichloroethene	ND	vs	5.3	0.68	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
cis-1,3-Dichloropropene	ND	vs	5.3	0.77	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Cyclohexane	ND	vs	5.3	0.74	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Dichlorodifluoromethane	ND	vs	5.3	0.44	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Ethylbenzene	ND	vs	5.3	0.37	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
1,2-Dibromoethane	ND	vs	5.3	0.68	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Isopropylbenzene	ND	vs	5.3	0.80	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Methyl acetate	ND	vs	27	3.2	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Methyl tert-butyl ether	ND	vs	5.3	0.52	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Methylcyclohexane	ND	vs	5.3	0.81	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Methylene Chloride	**4.8**	**J vs**	5.3	2.4	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Styrene	ND	vs	5.3	0.27	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Tetrachloroethene	ND	vs	5.3	0.71	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Toluene	ND	vs	5.3	0.40	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
trans-1,2-Dichloroethene	ND	vs	5.3	0.55	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
trans-1,3-Dichloropropene	ND	vs	5.3	2.3	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Trichloroethene	**2.0**	**J vs**	5.3	1.2	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Trichlorofluoromethane	ND	vs	5.3	0.50	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Vinyl chloride	ND	vs	5.3	0.65	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1
Xylenes, Total	ND	vs	11	0.89	ug/Kg	☼	06/13/21 20:59	06/14/21 03:26	1

Client Sample ID: S-1A 0-2
Date Collected: 06/10/21 07:50
Date Received: 06/11/21 08:00

Lab Sample ID: 480-185887-1
Matrix: Solid
Percent Solids: 90.6

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			06/13/21 20:59	06/14/21 03:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		71 - 125	06/13/21 20:59	06/14/21 03:26	1
1,2-Dichloroethane-d4 (Surr)	108		64 - 126	06/13/21 20:59	06/14/21 03:26	1
4-Bromofluorobenzene (Surr)	86		72 - 126	06/13/21 20:59	06/14/21 03:26	1
Dibromofluoromethane (Surr)	108		60 - 140	06/13/21 20:59	06/14/21 03:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		10000	1500	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
bis (2-chloroisopropyl) ether	ND		10000	2000	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
2,4,5-Trichlorophenol	ND		10000	2700	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
2,4,6-Trichlorophenol	ND		10000	2000	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
2,4-Dichlorophenol	ND		10000	1100	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
2,4-Dimethylphenol	ND		10000	2400	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
2,4-Dinitrophenol	ND		97000	46000	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
2,4-Dinitrotoluene	ND		10000	2100	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
2,6-Dinitrotoluene	ND		10000	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
2-Chloronaphthalene	ND		10000	1600	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
2-Chlorophenol	ND		19000	1800	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
2-Methylphenol	ND		10000	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
2-Methylnaphthalene	ND		10000	2000	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
2-Nitroaniline	ND		19000	1500	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
2-Nitrophenol	ND		10000	2800	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
3,3'-Dichlorobenzidine	ND		19000	12000	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
3-Nitroaniline	ND		19000	2800	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
4,6-Dinitro-2-methylphenol	ND		19000	10000	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
4-Bromophenyl phenyl ether	ND		10000	1400	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
4-Chloro-3-methylphenol	ND		10000	2500	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
4-Chloroaniline	ND		10000	2500	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
4-Chlorophenyl phenyl ether	ND		10000	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
4-Methylphenol	ND		19000	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
4-Nitroaniline	ND		19000	5200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
4-Nitrophenol	ND		19000	7000	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Acenaphthene	ND		10000	1500	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Acenaphthylene	ND		10000	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Acetophenone	ND		10000	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Anthracene	ND		10000	2500	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Atrazine	ND		10000	3500	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Benzaldehyde	ND		10000	7900	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Benzo[a]anthracene	**3800**	**J**	10000	1000	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Benzo[a]pyrene	**5100**	**J**	10000	1500	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Benzo[b]fluoranthene	**6800**	**J**	10000	1600	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Benzo[g,h,i]perylene	**4800**	**J**	10000	1100	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Benzo[k]fluoranthene	**2700**	**J**	10000	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Bis(2-chloroethoxy)methane	ND		10000	2100	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Bis(2-chloroethyl)ether	ND		10000	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Bis(2-ethylhexyl) phthalate	ND		10000	3400	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Butyl benzyl phthalate	ND		10000	1600	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10

Client Sample ID: S-1A 0-2
Date Collected: 06/10/21 07:50
Date Received: 06/11/21 08:00

Lab Sample ID: 480-185887-1
Matrix: Solid
Percent Solids: 90.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		10000	3000	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Carbazole	ND		10000	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Chrysene	**4800**	**J**	10000	2200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Dibenz(a,h)anthracene	**2100**	**J**	10000	1800	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Di-n-butyl phthalate	ND		10000	1700	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Di-n-octyl phthalate	ND		10000	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Dibenzofuran	ND		10000	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Diethyl phthalate	ND		10000	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Dimethyl phthalate	ND		10000	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Fluoranthene	**7900**	**J**	10000	1100	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Fluorene	ND		10000	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Hexachlorobenzene	ND		10000	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Hexachlorobutadiene	ND		10000	1500	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Hexachlorocyclopentadiene	ND		10000	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Hexachloroethane	ND		10000	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Indeno[1,2,3-cd]pyrene	**4300**	**J**	10000	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Isophorone	ND		10000	2100	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
N-Nitrosodi-n-propylamine	ND		10000	1700	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
N-Nitrosodiphenylamine	ND		10000	8100	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Naphthalene	ND		10000	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Nitrobenzene	ND		10000	1100	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Pentachlorophenol	ND		19000	10000	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Phenanthrene	**3900**	**J**	10000	1500	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Phenol	ND		10000	1500	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10
Pyrene	**7300**	**J**	10000	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:04	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*8000*	*T J*	*ug/Kg*	☼	*14.23*		*06/17/21 08:52*	*06/18/21 20:04*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*84*		*53 - 120*	*06/17/21 08:52*	*06/18/21 20:04*	*10*
Phenol-d5 (Surr)	*74*		*54 - 120*	*06/17/21 08:52*	*06/18/21 20:04*	*10*
p-Terphenyl-d14 (Surr)	*84*		*79 - 130*	*06/17/21 08:52*	*06/18/21 20:04*	*10*
2,4,6-Tribromophenol (Surr)	*86*		*54 - 120*	*06/17/21 08:52*	*06/18/21 20:04*	*10*
2-Fluorobiphenyl	*78*		*60 - 120*	*06/17/21 08:52*	*06/18/21 20:04*	*10*
2-Fluorophenol (Surr)	*78*		*52 - 120*	*06/17/21 08:52*	*06/18/21 20:04*	*10*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		91	18	ug/Kg	☼	06/18/21 08:46	06/21/21 11:23	50
4,4'-DDE	ND		91	19	ug/Kg	☼	06/18/21 08:46	06/21/21 11:23	50
4,4'-DDT	ND		91	21	ug/Kg	☼	06/18/21 08:46	06/21/21 11:23	50
Aldrin	ND		91	22	ug/Kg	☼	06/18/21 08:46	06/21/21 11:23	50
alpha-BHC	ND		91	16	ug/Kg	☼	06/18/21 08:46	06/21/21 11:23	50
cis-Chlordane	ND		91	45	ug/Kg	☼	06/18/21 08:46	06/21/21 11:23	50
beta-BHC	ND		91	16	ug/Kg	☼	06/18/21 08:46	06/21/21 11:23	50
delta-BHC	ND		91	17	ug/Kg	☼	06/18/21 08:46	06/21/21 11:23	50
Dieldrin	ND		91	22	ug/Kg	☼	06/18/21 08:46	06/21/21 11:23	50
Endosulfan I	ND		91	17	ug/Kg	☼	06/18/21 08:46	06/21/21 11:23	50
Endosulfan II	ND		91	16	ug/Kg	☼	06/18/21 08:46	06/21/21 11:23	50

Client Sample ID: S-1A 0-2
Lab Sample ID: 480-185887-1
Date Collected: 06/10/21 07:50
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 90.6

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		91	17	ug/Kg	☼	06/18/21 08:46	06/21/21 11:23	50
Endrin	ND		91	18	ug/Kg	☼	06/18/21 08:46	06/21/21 11:23	50
Endrin aldehyde	ND		91	23	ug/Kg	☼	06/18/21 08:46	06/21/21 11:23	50
Endrin ketone	ND		91	22	ug/Kg	☼	06/18/21 08:46	06/21/21 11:23	50
gamma-BHC (Lindane)	ND		91	17	ug/Kg	☼	06/18/21 08:46	06/21/21 11:23	50
trans-Chlordane	ND		91	29	ug/Kg	☼	06/18/21 08:46	06/21/21 11:23	50
Heptachlor	ND		91	20	ug/Kg	☼	06/18/21 08:46	06/21/21 11:23	50
Heptachlor epoxide	ND		91	24	ug/Kg	☼	06/18/21 08:46	06/21/21 11:23	50
Methoxychlor	ND		91	19	ug/Kg	☼	06/18/21 08:46	06/21/21 11:23	50
Toxaphene	ND		910	530	ug/Kg	☼	06/18/21 08:46	06/21/21 11:23	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*273*	*S1+*	*45 - 120*	*06/18/21 08:46*	*06/21/21 11:23*	*50*
DCB Decachlorobiphenyl	*442*	*S1+*	*45 - 120*	*06/18/21 08:46*	*06/21/21 11:23*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*06/18/21 08:46*	*06/21/21 11:23*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*06/18/21 08:46*	*06/21/21 11:23*	*50*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.19	0.038	mg/Kg	☼	06/14/21 07:19	06/15/21 20:30	1
PCB-1221	ND		0.19	0.038	mg/Kg	☼	06/14/21 07:19	06/15/21 20:30	1
PCB-1232	ND		0.19	0.038	mg/Kg	☼	06/14/21 07:19	06/15/21 20:30	1
PCB-1242	ND		0.19	0.038	mg/Kg	☼	06/14/21 07:19	06/15/21 20:30	1
PCB-1248	**0.16**	**J**	0.19	0.038	mg/Kg	☼	06/14/21 07:19	06/15/21 20:30	1
PCB-1254	ND		0.19	0.091	mg/Kg	☼	06/14/21 07:19	06/15/21 20:30	1
PCB-1260	ND		0.19	0.091	mg/Kg	☼	06/14/21 07:19	06/15/21 20:30	1
PCB-1262	ND		0.19	0.091	mg/Kg	☼	06/14/21 07:19	06/15/21 20:30	1
PCB-1268	ND		0.19	0.091	mg/Kg	☼	06/14/21 07:19	06/15/21 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*119*		*60 - 154*	*06/14/21 07:19*	*06/15/21 20:30*	*1*
Tetrachloro-m-xylene	*117*		*60 - 154*	*06/14/21 07:19*	*06/15/21 20:30*	*1*
DCB Decachlorobiphenyl	*103*		*65 - 174*	*06/14/21 07:19*	*06/15/21 20:30*	*1*
DCB Decachlorobiphenyl	*106*		*65 - 174*	*06/14/21 07:19*	*06/15/21 20:30*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		18	5.7	ug/Kg	☼	06/15/21 06:53	06/24/21 10:53	1
2,4-D	ND		18	11	ug/Kg	☼	06/15/21 06:53	06/24/21 10:53	1
Silvex (2,4,5-TP)	ND		18	6.5	ug/Kg	☼	06/15/21 06:53	06/24/21 10:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*61*		*28 - 129*	*06/15/21 06:53*	*06/24/21 10:53*	*1*
2,4-Dichlorophenylacetic acid	*52*		*28 - 129*	*06/15/21 06:53*	*06/24/21 10:53*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4890**	**B**	11.6	5.1	mg/Kg	☼	06/15/21 07:46	06/16/21 16:01	1
Antimony	ND		17.4	0.46	mg/Kg	☼	06/15/21 07:46	06/16/21 16:01	1
Arsenic	**3.1**		2.3	0.46	mg/Kg	☼	06/15/21 07:46	06/16/21 16:01	1
Barium	**61.8**		0.58	0.13	mg/Kg	☼	06/15/21 07:46	06/16/21 16:01	1

Client Sample ID: S-1A 0-2

Lab Sample ID: 480-185887-1
Date Collected: 06/10/21 07:50
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 90.6

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.28		0.23	0.032	mg/Kg	☼	06/15/21 07:46	06/16/21 16:01	1
Cadmium	0.47		0.23	0.035	mg/Kg	☼	06/15/21 07:46	06/16/21 16:01	1
Calcium	84900	B	57.9	3.8	mg/Kg	☼	06/15/21 07:46	06/16/21 16:01	1
Chromium	22.0	B	0.58	0.23	mg/Kg	☼	06/15/21 07:46	06/16/21 16:01	1
Cobalt	2.9		0.58	0.058	mg/Kg	☼	06/15/21 07:46	06/16/21 16:01	1
Copper	20.2		1.2	0.24	mg/Kg	☼	06/15/21 07:46	06/16/21 16:01	1
Iron	8690	B	11.6	4.1	mg/Kg	☼	06/15/21 07:46	06/16/21 16:01	1
Lead	52.4		1.2	0.28	mg/Kg	☼	06/15/21 07:46	06/16/21 16:01	1
Magnesium	31000	B	23.2	1.1	mg/Kg	☼	06/15/21 07:46	06/16/21 16:01	1
Manganese	310	B	0.23	0.037	mg/Kg	☼	06/15/21 07:46	06/16/21 16:01	1
Nickel	9.4		5.8	0.27	mg/Kg	☼	06/15/21 07:46	06/16/21 16:01	1
Potassium	1340		34.7	23.2	mg/Kg	☼	06/15/21 07:46	06/16/21 16:01	1
Selenium	ND		4.6	0.46	mg/Kg	☼	06/15/21 07:46	06/16/21 16:01	1
Silver	ND		0.69	0.23	mg/Kg	☼	06/15/21 07:46	06/16/21 16:01	1
Sodium	240		162	15.1	mg/Kg	☼	06/15/21 07:46	06/16/21 16:01	1
Thallium	ND		6.9	0.35	mg/Kg	☼	06/15/21 07:46	06/16/21 16:01	1
Vanadium	17.6		0.58	0.13	mg/Kg	☼	06/15/21 07:46	06/16/21 16:01	1
Zinc	99.6		2.3	0.74	mg/Kg	☼	06/15/21 07:46	06/16/21 16:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.062		0.017	0.0071	mg/Kg	☼	06/18/21 13:15	06/18/21 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.1	0.51	mg/Kg	☼	06/15/21 12:49	06/15/21 19:07	1

Client Sample ID: S-1B 2-12

Lab Sample ID: 480-185887-2
Date Collected: 06/10/21 07:55
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 93.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.3	0.39	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
1,1,2,2-Tetrachloroethane	ND	vs	5.3	0.86	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
1,1,2-Trichloroethane	ND	vs	5.3	0.69	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.3	1.2	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
1,1-Dichloroethane	ND	vs	5.3	0.65	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
1,1-Dichloroethene	ND	vs	5.3	0.65	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
1,2,4-Trichlorobenzene	ND	vs	5.3	0.32	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.3	2.7	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
1,2-Dichlorobenzene	ND	vs	5.3	0.42	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
1,2-Dichloroethane	ND	vs	5.3	0.27	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
1,2-Dichloropropane	ND	vs	5.3	2.7	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
1,3-Dichlorobenzene	ND	vs	5.3	0.27	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
1,4-Dichlorobenzene	ND	vs	5.3	0.74	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
2-Butanone (MEK)	ND	vs	27	1.9	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
2-Hexanone	ND	vs	27	2.7	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
4-Methyl-2-pentanone (MIBK)	ND	vs	27	1.7	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Acetone	ND	vs	27	4.5	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1

Client: New York State D.E.C.
Job ID: 480-185887-1
Project/Site: Former Raeco Products #828107

Client Sample ID: S-1B 2-12
Lab Sample ID: 480-185887-2
Date Collected: 06/10/21 07:55
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 93.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	vs	5.3	0.26	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Bromodichloromethane	ND	vs	5.3	0.71	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Bromoform	ND	vs	5.3	2.7	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Bromomethane	ND	vs	5.3	0.48	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Carbon disulfide	ND	vs	5.3	2.7	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Carbon tetrachloride	ND	vs	5.3	0.51	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Chlorobenzene	ND	vs	5.3	0.70	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Dibromochloromethane	ND	vs	5.3	0.68	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Chloroethane	ND	vs *+	5.3	1.2	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Chloroform	ND	vs	5.3	0.33	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Chloromethane	ND	vs	5.3	0.32	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
cis-1,2-Dichloroethene	ND	vs	5.3	0.68	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
cis-1,3-Dichloropropene	ND	vs	5.3	0.76	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Cyclohexane	ND	vs	5.3	0.74	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Dichlorodifluoromethane	ND	vs	5.3	0.44	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Ethylbenzene	ND	vs	5.3	0.37	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
1,2-Dibromoethane	ND	vs	5.3	0.68	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Isopropylbenzene	ND	vs	5.3	0.80	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Methyl acetate	ND	vs	27	3.2	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Methyl tert-butyl ether	ND	vs	5.3	0.52	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Methylcyclohexane	ND	vs	5.3	0.81	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Methylene Chloride	**7.2**	**vs**	5.3	2.4	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Styrene	ND	vs	5.3	0.27	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Tetrachloroethene	ND	vs	5.3	0.71	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Toluene	ND	vs	5.3	0.40	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
trans-1,2-Dichloroethene	ND	vs	5.3	0.55	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
trans-1,3-Dichloropropene	ND	vs	5.3	2.3	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Trichloroethene	**1.2**	**J vs**	5.3	1.2	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Trichlorofluoromethane	ND	vs	5.3	0.50	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Vinyl chloride	ND	vs	5.3	0.65	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1
Xylenes, Total	ND	vs	11	0.89	ug/Kg	☼	06/13/21 20:59	06/14/21 03:50	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼			*06/13/21 20:59*	*06/14/21 03:50*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*71 - 125*	*06/13/21 20:59*	*06/14/21 03:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*64 - 126*	*06/13/21 20:59*	*06/14/21 03:50*	*1*
4-Bromofluorobenzene (Surr)	*89*		*72 - 126*	*06/13/21 20:59*	*06/14/21 03:50*	*1*
Dibromofluoromethane (Surr)	*106*		*60 - 140*	*06/13/21 20:59*	*06/14/21 03:50*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		9800	1400	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
bis (2-chloroisopropyl) ether	ND		9800	2000	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
2,4,5-Trichlorophenol	ND		9800	2700	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
2,4,6-Trichlorophenol	ND		9800	2000	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
2,4-Dichlorophenol	ND		9800	1000	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
2,4-Dimethylphenol	ND		9800	2400	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
2,4-Dinitrophenol	ND		96000	45000	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10

Client: New York State D.E.C.
Project/Site: Former Raeco Products #828107

Job ID: 480-185887-1

Client Sample ID: S-1B 2-12
Date Collected: 06/10/21 07:55
Date Received: 06/11/21 08:00

Lab Sample ID: 480-185887-2
Matrix: Solid
Percent Solids: 93.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		9800	2000	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
2,6-Dinitrotoluene	ND		9800	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
2-Chloronaphthalene	ND		9800	1600	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
2-Chlorophenol	ND		19000	1800	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
2-Methylphenol	ND		9800	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
2-Methylnaphthalene	ND		9800	2000	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
2-Nitroaniline	ND		19000	1400	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
2-Nitrophenol	ND		9800	2800	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
3,3'-Dichlorobenzidine	ND		19000	12000	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
3-Nitroaniline	ND		19000	2700	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
4,6-Dinitro-2-methylphenol	ND		19000	9800	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
4-Bromophenyl phenyl ether	ND		9800	1400	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
4-Chloro-3-methylphenol	ND		9800	2400	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
4-Chloroaniline	ND		9800	2400	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
4-Chlorophenyl phenyl ether	ND		9800	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
4-Methylphenol	ND		19000	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
4-Nitroaniline	ND		19000	5100	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
4-Nitrophenol	ND		19000	6900	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Acenaphthene	ND		9800	1400	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Acenaphthylene	ND		9800	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Acetophenone	ND		9800	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Anthracene	ND		9800	2400	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Atrazine	ND		9800	3400	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Benzaldehyde	ND		9800	7800	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Benzo[a]anthracene	**4600**	**J**	9800	980	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Benzo[a]pyrene	**5900**	**J**	9800	1400	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Benzo[b]fluoranthene	**7900**	**J**	9800	1600	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Benzo[g,h,i]perylene	**5500**	**J**	9800	1000	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Benzo[k]fluoranthene	**2900**	**J**	9800	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Bis(2-chloroethoxy)methane	ND		9800	2100	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Bis(2-chloroethyl)ether	ND		9800	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Bis(2-ethylhexyl) phthalate	ND		9800	3400	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Butyl benzyl phthalate	ND		9800	1600	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Caprolactam	ND		9800	2900	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Carbazole	ND		9800	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Chrysene	**5200**	**J**	9800	2200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Dibenz(a,h)anthracene	**1900**	**J**	9800	1700	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Di-n-butyl phthalate	ND		9800	1700	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Di-n-octyl phthalate	ND		9800	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Dibenzofuran	ND		9800	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Diethyl phthalate	ND		9800	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Dimethyl phthalate	ND		9800	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Fluoranthene	**9300**	**J**	9800	1000	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Fluorene	ND		9800	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Hexachlorobenzene	ND		9800	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Hexachlorobutadiene	ND		9800	1400	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Hexachlorocyclopentadiene	ND		9800	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Hexachloroethane	ND		9800	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Indeno[1,2,3-cd]pyrene	**4900**	**J**	9800	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10

Client Sample ID: S-1B 2-12
Date Collected: 06/10/21 07:55
Date Received: 06/11/21 08:00

Lab Sample ID: 480-185887-2
Matrix: Solid
Percent Solids: 93.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	ND		9800	2100	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
N-Nitrosodi-n-propylamine	ND		9800	1700	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
N-Nitrosodiphenylamine	ND		9800	8000	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Naphthalene	ND		9800	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Nitrobenzene	ND		9800	1100	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Pentachlorophenol	ND		19000	9800	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Phenanthrene	**3700**	**J**	9800	1400	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Phenol	ND		9800	1500	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10
Pyrene	**7600**	**J**	9800	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:28	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼			*06/17/21 08:52*	*06/18/21 20:28*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*81*		*53 - 120*	*06/17/21 08:52*	*06/18/21 20:28*	*10*
Phenol-d5 (Surr)	*74*		*54 - 120*	*06/17/21 08:52*	*06/18/21 20:28*	*10*
p-Terphenyl-d14 (Surr)	*85*		*79 - 130*	*06/17/21 08:52*	*06/18/21 20:28*	*10*
2,4,6-Tribromophenol (Surr)	*84*		*54 - 120*	*06/17/21 08:52*	*06/18/21 20:28*	*10*
2-Fluorobiphenyl	*81*		*60 - 120*	*06/17/21 08:52*	*06/18/21 20:28*	*10*
2-Fluorophenol (Surr)	*75*		*52 - 120*	*06/17/21 08:52*	*06/18/21 20:28*	*10*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		89	17	ug/Kg	☼	06/18/21 08:46	06/21/21 11:43	50
4,4'-DDE	ND		89	19	ug/Kg	☼	06/18/21 08:46	06/21/21 11:43	50
4,4'-DDT	**24**	**J**	89	21	ug/Kg	☼	06/18/21 08:46	06/21/21 11:43	50
Aldrin	ND		89	22	ug/Kg	☼	06/18/21 08:46	06/21/21 11:43	50
alpha-BHC	ND		89	16	ug/Kg	☼	06/18/21 08:46	06/21/21 11:43	50
cis-Chlordane	ND		89	44	ug/Kg	☼	06/18/21 08:46	06/21/21 11:43	50
beta-BHC	ND		89	16	ug/Kg	☼	06/18/21 08:46	06/21/21 11:43	50
delta-BHC	ND		89	16	ug/Kg	☼	06/18/21 08:46	06/21/21 11:43	50
Dieldrin	ND		89	21	ug/Kg	☼	06/18/21 08:46	06/21/21 11:43	50
Endosulfan I	ND		89	17	ug/Kg	☼	06/18/21 08:46	06/21/21 11:43	50
Endosulfan II	ND		89	16	ug/Kg	☼	06/18/21 08:46	06/21/21 11:43	50
Endosulfan sulfate	ND		89	17	ug/Kg	☼	06/18/21 08:46	06/21/21 11:43	50
Endrin	ND		89	18	ug/Kg	☼	06/18/21 08:46	06/21/21 11:43	50
Endrin aldehyde	ND		89	23	ug/Kg	☼	06/18/21 08:46	06/21/21 11:43	50
Endrin ketone	ND		89	22	ug/Kg	☼	06/18/21 08:46	06/21/21 11:43	50
gamma-BHC (Lindane)	ND		89	16	ug/Kg	☼	06/18/21 08:46	06/21/21 11:43	50
trans-Chlordane	ND		89	28	ug/Kg	☼	06/18/21 08:46	06/21/21 11:43	50
Heptachlor	ND		89	19	ug/Kg	☼	06/18/21 08:46	06/21/21 11:43	50
Heptachlor epoxide	ND		89	23	ug/Kg	☼	06/18/21 08:46	06/21/21 11:43	50
Methoxychlor	ND		89	18	ug/Kg	☼	06/18/21 08:46	06/21/21 11:43	50
Toxaphene	ND		890	520	ug/Kg	☼	06/18/21 08:46	06/21/21 11:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*255*	*S1+*	*45 - 120*	*06/18/21 08:46*	*06/21/21 11:43*	*50*
DCB Decachlorobiphenyl	*521*	*S1+*	*45 - 120*	*06/18/21 08:46*	*06/21/21 11:43*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*06/18/21 08:46*	*06/21/21 11:43*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*06/18/21 08:46*	*06/21/21 11:43*	*50*

Client: New York State D.E.C.
Job ID: 480-185887-1
Project/Site: Former Raeco Products #828107

Client Sample ID: S-1B 2-12
Date Collected: 06/10/21 07:55
Date Received: 06/11/21 08:00

Lab Sample ID: 480-185887-2
Matrix: Solid
Percent Solids: 93.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.19	0.037	mg/Kg	☼	06/14/21 07:19	06/15/21 20:43	1
PCB-1221	ND		0.19	0.037	mg/Kg	☼	06/14/21 07:19	06/15/21 20:43	1
PCB-1232	ND		0.19	0.037	mg/Kg	☼	06/14/21 07:19	06/15/21 20:43	1
PCB-1242	ND		0.19	0.037	mg/Kg	☼	06/14/21 07:19	06/15/21 20:43	1
PCB-1248	ND		0.19	0.037	mg/Kg	☼	06/14/21 07:19	06/15/21 20:43	1
PCB-1254	**0.14**	**J**	0.19	0.089	mg/Kg	☼	06/14/21 07:19	06/15/21 20:43	1
PCB-1260	ND		0.19	0.089	mg/Kg	☼	06/14/21 07:19	06/15/21 20:43	1
PCB-1262	ND		0.19	0.089	mg/Kg	☼	06/14/21 07:19	06/15/21 20:43	1
PCB-1268	ND		0.19	0.089	mg/Kg	☼	06/14/21 07:19	06/15/21 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*110*		*60 - 154*	*06/14/21 07:19*	*06/15/21 20:43*	*1*
Tetrachloro-m-xylene	*111*		*60 - 154*	*06/14/21 07:19*	*06/15/21 20:43*	*1*
DCB Decachlorobiphenyl	*102*		*65 - 174*	*06/14/21 07:19*	*06/15/21 20:43*	*1*
DCB Decachlorobiphenyl	*105*		*65 - 174*	*06/14/21 07:19*	*06/15/21 20:43*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		18	5.6	ug/Kg	☼	06/15/21 06:53	06/24/21 11:22	1
2,4-D	ND		18	11	ug/Kg	☼	06/15/21 06:53	06/24/21 11:22	1
Silvex (2,4,5-TP)	ND		18	6.4	ug/Kg	☼	06/15/21 06:53	06/24/21 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*	*06/15/21 06:53*	*06/24/21 11:22*	*1*
2,4-Dichlorophenylacetic acid	*60*		*28 - 129*	*06/15/21 06:53*	*06/24/21 11:22*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5500**	**B**	11.1	4.9	mg/Kg	☼	06/15/21 07:46	06/16/21 16:05	1
Antimony	ND		16.6	0.44	mg/Kg	☼	06/15/21 07:46	06/16/21 16:05	1
Arsenic	**3.8**		2.2	0.44	mg/Kg	☼	06/15/21 07:46	06/16/21 16:05	1
Barium	**69.0**		0.55	0.12	mg/Kg	☼	06/15/21 07:46	06/16/21 16:05	1
Beryllium	**0.30**		0.22	0.031	mg/Kg	☼	06/15/21 07:46	06/16/21 16:05	1
Cadmium	**0.42**		0.22	0.033	mg/Kg	☼	06/15/21 07:46	06/16/21 16:05	1
Calcium	**86200**	**B**	55.4	3.7	mg/Kg	☼	06/15/21 07:46	06/16/21 16:05	1
Chromium	**17.8**	**B**	0.55	0.22	mg/Kg	☼	06/15/21 07:46	06/16/21 16:05	1
Cobalt	**3.5**		0.55	0.055	mg/Kg	☼	06/15/21 07:46	06/16/21 16:05	1
Copper	**25.6**		1.1	0.23	mg/Kg	☼	06/15/21 07:46	06/16/21 16:05	1
Iron	**9450**	**B**	11.1	3.9	mg/Kg	☼	06/15/21 07:46	06/16/21 16:05	1
Lead	**105**		1.1	0.27	mg/Kg	☼	06/15/21 07:46	06/16/21 16:05	1
Magnesium	**30500**	**B**	22.2	1.0	mg/Kg	☼	06/15/21 07:46	06/16/21 16:05	1
Manganese	**372**	**B**	0.22	0.035	mg/Kg	☼	06/15/21 07:46	06/16/21 16:05	1
Nickel	**10.6**		5.5	0.25	mg/Kg	☼	06/15/21 07:46	06/16/21 16:05	1
Potassium	**1670**		33.3	22.2	mg/Kg	☼	06/15/21 07:46	06/16/21 16:05	1
Selenium	ND		4.4	0.44	mg/Kg	☼	06/15/21 07:46	06/16/21 16:05	1
Silver	**1.1**		0.67	0.22	mg/Kg	☼	06/15/21 07:46	06/16/21 16:05	1
Sodium	**306**		155	14.4	mg/Kg	☼	06/15/21 07:46	06/16/21 16:05	1
Thallium	ND		6.7	0.33	mg/Kg	☼	06/15/21 07:46	06/16/21 16:05	1
Vanadium	**19.5**		0.55	0.12	mg/Kg	☼	06/15/21 07:46	06/16/21 16:05	1
Zinc	**151**		2.2	0.71	mg/Kg	☼	06/15/21 07:46	06/16/21 16:05	1

Client Sample ID: S-1B 2-12
Lab Sample ID: 480-185887-2

Date Collected: 06/10/21 07:55
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 93.2

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.14**		0.022	0.0088	mg/Kg	☼	06/18/21 13:15	06/18/21 15:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.0	0.50	mg/Kg	☼	06/15/21 12:49	06/15/21 19:08	1

Client Sample ID: S-2A 0-2
Lab Sample ID: 480-185887-3

Date Collected: 06/10/21 08:00
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 99.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	4.9	0.36	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
1,1,2,2-Tetrachloroethane	ND	vs	4.9	0.80	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
1,1,2-Trichloroethane	ND	vs	4.9	0.64	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	4.9	1.1	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
1,1-Dichloroethane	ND	vs	4.9	0.60	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
1,1-Dichloroethene	ND	vs	4.9	0.60	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
1,2,4-Trichlorobenzene	ND	vs	4.9	0.30	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
1,2-Dibromo-3-Chloropropane	ND	vs	4.9	2.5	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
1,2-Dichlorobenzene	ND	vs	4.9	0.39	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
1,2-Dichloroethane	ND	vs	4.9	0.25	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
1,2-Dichloropropane	ND	vs	4.9	2.5	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
1,3-Dichlorobenzene	ND	vs	4.9	0.25	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
1,4-Dichlorobenzene	ND	vs	4.9	0.69	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
2-Butanone (MEK)	ND	vs	25	1.8	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
2-Hexanone	ND	vs	25	2.5	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
4-Methyl-2-pentanone (MIBK)	ND	vs	25	1.6	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Acetone	**29**	**vs**	25	4.1	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Benzene	ND	vs	4.9	0.24	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Bromodichloromethane	ND	vs	4.9	0.66	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Bromoform	ND	vs	4.9	2.5	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Bromomethane	ND	vs	4.9	0.44	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Carbon disulfide	ND	vs	4.9	2.5	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Carbon tetrachloride	ND	vs	4.9	0.48	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Chlorobenzene	ND	vs	4.9	0.65	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Dibromochloromethane	ND	vs	4.9	0.63	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Chloroethane	ND	vs *+	4.9	1.1	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Chloroform	ND	vs	4.9	0.30	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Chloromethane	ND	vs	4.9	0.30	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
cis-1,2-Dichloroethene	ND	vs	4.9	0.63	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
cis-1,3-Dichloropropene	ND	vs	4.9	0.71	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Cyclohexane	ND	vs	4.9	0.69	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Dichlorodifluoromethane	ND	vs	4.9	0.41	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Ethylbenzene	ND	vs	4.9	0.34	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
1,2-Dibromoethane	ND	vs	4.9	0.63	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Isopropylbenzene	ND	vs	4.9	0.74	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Methyl acetate	ND	vs	25	3.0	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Methyl tert-butyl ether	ND	vs	4.9	0.48	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Methylcyclohexane	ND	vs	4.9	0.75	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1

Client Sample ID: S-2A 0-2
Date Collected: 06/10/21 08:00
Date Received: 06/11/21 08:00

Lab Sample ID: 480-185887-3
Matrix: Solid
Percent Solids: 99.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	**7.7**	**vs**	4.9	2.3	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Styrene	ND	vs	4.9	0.25	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Tetrachloroethene	ND	vs	4.9	0.66	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Toluene	ND	vs	4.9	0.37	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
trans-1,2-Dichloroethene	ND	vs	4.9	0.51	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
trans-1,3-Dichloropropene	ND	vs	4.9	2.2	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Trichloroethene	ND	vs	4.9	1.1	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Trichlorofluoromethane	ND	vs	4.9	0.47	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Vinyl chloride	ND	vs	4.9	0.60	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1
Xylenes, Total	ND	vs	9.9	0.83	ug/Kg	☼	06/13/21 20:59	06/14/21 04:15	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼			*06/13/21 20:59*	*06/14/21 04:15*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*71 - 125*	*06/13/21 20:59*	*06/14/21 04:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*64 - 126*	*06/13/21 20:59*	*06/14/21 04:15*	*1*
4-Bromofluorobenzene (Surr)	*94*		*72 - 126*	*06/13/21 20:59*	*06/14/21 04:15*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 140*	*06/13/21 20:59*	*06/14/21 04:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		830	120	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
bis (2-chloroisopropyl) ether	ND		830	170	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
2,4,5-Trichlorophenol	ND		830	230	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
2,4,6-Trichlorophenol	ND		830	170	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
2,4-Dichlorophenol	ND		830	88	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
2,4-Dimethylphenol	ND		830	200	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
2,4-Dinitrophenol	ND		8100	3800	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
2,4-Dinitrotoluene	ND		830	170	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
2,6-Dinitrotoluene	ND		830	98	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
2-Chloronaphthalene	ND		830	140	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
2-Chlorophenol	ND		1600	150	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
2-Methylphenol	ND		830	98	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
2-Methylnaphthalene	ND		830	170	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
2-Nitroaniline	ND		1600	120	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
2-Nitrophenol	ND		830	240	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
3,3'-Dichlorobenzidine	ND		1600	980	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
3-Nitroaniline	ND		1600	230	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
4,6-Dinitro-2-methylphenol	ND		1600	830	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
4-Bromophenyl phenyl ether	ND		830	120	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
4-Chloro-3-methylphenol	ND		830	210	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
4-Chloroaniline	ND		830	210	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
4-Chlorophenyl phenyl ether	ND		830	100	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
4-Methylphenol	ND		1600	98	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
4-Nitroaniline	ND		1600	440	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
4-Nitrophenol	ND		1600	580	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Acenaphthene	ND		830	120	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Acenaphthylene	ND		830	110	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Acetophenone	ND		830	110	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5

Client Sample ID: S-2A 0-2
Lab Sample ID: 480-185887-3
Date Collected: 06/10/21 08:00
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 99.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		830	210	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Atrazine	ND		830	290	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Benzaldehyde	ND		830	660	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Benzo[a]anthracene	ND		830	83	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Benzo[a]pyrene	ND		830	120	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Benzo[b]fluoranthene	ND		830	130	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Benzo[g,h,i]perylene	ND		830	88	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Benzo[k]fluoranthene	ND		830	110	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Bis(2-chloroethoxy)methane	ND		830	180	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Bis(2-chloroethyl)ether	ND		830	110	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Bis(2-ethylhexyl) phthalate	**13000**		830	280	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Butyl benzyl phthalate	ND		830	140	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Caprolactam	ND		830	250	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Carbazole	ND		830	98	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Chrysene	ND		830	190	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Dibenz(a,h)anthracene	ND		830	150	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Di-n-butyl phthalate	**690**	**J B**	830	140	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Di-n-octyl phthalate	ND		830	98	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Dibenzofuran	ND		830	98	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Diethyl phthalate	ND		830	110	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Dimethyl phthalate	ND		830	98	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Fluoranthene	ND		830	88	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Fluorene	ND		830	98	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Hexachlorobenzene	ND		830	110	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Hexachlorobutadiene	ND		830	120	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Hexachlorocyclopentadiene	ND		830	110	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Hexachloroethane	ND		830	110	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Indeno[1,2,3-cd]pyrene	ND		830	100	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Isophorone	ND		830	180	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
N-Nitrosodi-n-propylamine	ND		830	140	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
N-Nitrosodiphenylamine	ND		830	680	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Naphthalene	ND		830	110	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Nitrobenzene	ND		830	93	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Pentachlorophenol	ND		1600	830	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Phenanthrene	ND		830	120	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Phenol	ND		830	130	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5
Pyrene	ND		830	98	ug/Kg	☼	06/17/21 08:52	06/18/21 20:52	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*870*	*T J*	*ug/Kg*	☼	*5.90*		*06/17/21 08:52*	*06/18/21 20:52*	*5*
2,5-Cyclohexadiene-1,4-dione, 2,6-bis(1,1-dimethylethyl)-	*1900*	*T J N*	*ug/Kg*	☼	*9.11*	*719-22-2*	*06/17/21 08:52*	*06/18/21 20:52*	*5*
Hexadecane	*1100*	*T J N*	*ug/Kg*	☼	*9.87*	*544-76-3*	*06/17/21 08:52*	*06/18/21 20:52*	*5*
Unknown	*890*	*T J*	*ug/Kg*	☼	*10.12*		*06/17/21 08:52*	*06/18/21 20:52*	*5*
Heptadecane	*2200*	*T J N*	*ug/Kg*	☼	*10.39*	*629-78-7*	*06/17/21 08:52*	*06/18/21 20:52*	*5*
Heptadecane, 2,6-dimethyl-	*1600*	*T J N*	*ug/Kg*	☼	*10.41*	*54105-67-8*	*06/17/21 08:52*	*06/18/21 20:52*	*5*
1-Tetradecene	*2300*	*T J N*	*ug/Kg*	☼	*10.73*	*1120-36-1*	*06/17/21 08:52*	*06/18/21 20:52*	*5*
Octadecane	*3600*	*T J N*	*ug/Kg*	☼	*10.85*	*593-45-3*	*06/17/21 08:52*	*06/18/21 20:52*	*5*
Hexadecane, 2,6,10,14-tetramethyl-	*1900*	*T J N*	*ug/Kg*	☼	*10.89*	*638-36-8*	*06/17/21 08:52*	*06/18/21 20:52*	*5*
Unknown	*1000*	*T J*	*ug/Kg*	☼	*11.03*		*06/17/21 08:52*	*06/18/21 20:52*	*5*

Client Sample ID: S-2A 0-2
Date Collected: 06/10/21 08:00
Date Received: 06/11/21 08:00

Lab Sample ID: 480-185887-3
Matrix: Solid
Percent Solids: 99.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	710	T J	ug/Kg	☼	11.12		06/17/21 08:52	06/18/21 20:52	5
Nonadecane	4600	T J N	ug/Kg	☼	11.27	629-92-5	06/17/21 08:52	06/18/21 20:52	5
Tetradecane, 4-ethyl-	2600	T J N	ug/Kg	☼	11.43	55045-14-2	06/17/21 08:52	06/18/21 20:52	5
Unknown	3400	T J	ug/Kg	☼	11.55		06/17/21 08:52	06/18/21 20:52	5
Unknown	2500	T J	ug/Kg	☼	11.59		06/17/21 08:52	06/18/21 20:52	5
Eicosane	7800	T J N	ug/Kg	☼	11.66	112-95-8	06/17/21 08:52	06/18/21 20:52	5
Unknown	7200	T J	ug/Kg	☼	11.80		06/17/21 08:52	06/18/21 20:52	5
Dodecane, 4,9-dipropyl-	9600	T J N	ug/Kg	☼	11.92	3054-63-5	06/17/21 08:52	06/18/21 20:52	5
Heptadecane, 9-hexyl-	24000	T J N	ug/Kg	☼	12.76	55124-79-3	06/17/21 08:52	06/18/21 20:52	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	70		53 - 120	06/17/21 08:52	06/18/21 20:52	5
Phenol-d5 (Surr)	63		54 - 120	06/17/21 08:52	06/18/21 20:52	5
p-Terphenyl-d14 (Surr)	72	S1-	79 - 130	06/17/21 08:52	06/18/21 20:52	5
2,4,6-Tribromophenol (Surr)	78		54 - 120	06/17/21 08:52	06/18/21 20:52	5
2-Fluorobiphenyl	76		60 - 120	06/17/21 08:52	06/18/21 20:52	5
2-Fluorophenol (Surr)	58		52 - 120	06/17/21 08:52	06/18/21 20:52	5

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		33	6.4	ug/Kg	☼	06/18/21 08:46	06/21/21 12:02	20
4,4'-DDE	ND		33	6.9	ug/Kg	☼	06/18/21 08:46	06/21/21 12:02	20
4,4'-DDT	ND		33	7.7	ug/Kg	☼	06/18/21 08:46	06/21/21 12:02	20
Aldrin	ND		33	8.1	ug/Kg	☼	06/18/21 08:46	06/21/21 12:02	20
alpha-BHC	ND		33	5.9	ug/Kg	☼	06/18/21 08:46	06/21/21 12:02	20
cis-Chlordane	ND		33	16	ug/Kg	☼	06/18/21 08:46	06/21/21 12:02	20
beta-BHC	ND		33	5.9	ug/Kg	☼	06/18/21 08:46	06/21/21 12:02	20
delta-BHC	ND		33	6.1	ug/Kg	☼	06/18/21 08:46	06/21/21 12:02	20
Dieldrin	ND		33	7.9	ug/Kg	☼	06/18/21 08:46	06/21/21 12:02	20
Endosulfan I	ND		33	6.3	ug/Kg	☼	06/18/21 08:46	06/21/21 12:02	20
Endosulfan II	ND		33	5.9	ug/Kg	☼	06/18/21 08:46	06/21/21 12:02	20
Endosulfan sulfate	ND		33	6.1	ug/Kg	☼	06/18/21 08:46	06/21/21 12:02	20
Endrin	ND		33	6.5	ug/Kg	☼	06/18/21 08:46	06/21/21 12:02	20
Endrin aldehyde	ND		33	8.4	ug/Kg	☼	06/18/21 08:46	06/21/21 12:02	20
Endrin ketone	ND		33	8.1	ug/Kg	☼	06/18/21 08:46	06/21/21 12:02	20
gamma-BHC (Lindane)	ND		33	6.0	ug/Kg	☼	06/18/21 08:46	06/21/21 12:02	20
trans-Chlordane	ND		33	10	ug/Kg	☼	06/18/21 08:46	06/21/21 12:02	20
Heptachlor	ND		33	7.1	ug/Kg	☼	06/18/21 08:46	06/21/21 12:02	20
Heptachlor epoxide	ND		33	8.5	ug/Kg	☼	06/18/21 08:46	06/21/21 12:02	20
Methoxychlor	ND		33	6.7	ug/Kg	☼	06/18/21 08:46	06/21/21 12:02	20
Toxaphene	ND		330	190	ug/Kg	☼	06/18/21 08:46	06/21/21 12:02	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	S1-	45 - 120	06/18/21 08:46	06/21/21 12:02	20
DCB Decachlorobiphenyl	0	S1-	45 - 120	06/18/21 08:46	06/21/21 12:02	20
Tetrachloro-m-xylene	0	S1-	30 - 124	06/18/21 08:46	06/21/21 12:02	20
Tetrachloro-m-xylene	0	S1-	30 - 124	06/18/21 08:46	06/21/21 12:02	20

Client: New York State D.E.C.
Job ID: 480-185887-1
Project/Site: Former Raeco Products #828107

Client Sample ID: S-2A 0-2
Date Collected: 06/10/21 08:00
Date Received: 06/11/21 08:00

Lab Sample ID: 480-185887-3
Matrix: Solid
Percent Solids: 99.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg	☼	06/15/21 15:20	06/16/21 17:01	1
PCB-1221	ND		0.24	0.047	mg/Kg	☼	06/15/21 15:20	06/16/21 17:01	1
PCB-1232	ND		0.24	0.047	mg/Kg	☼	06/15/21 15:20	06/16/21 17:01	1
PCB-1242	ND		0.24	0.047	mg/Kg	☼	06/15/21 15:20	06/16/21 17:01	1
PCB-1248	ND		0.24	0.047	mg/Kg	☼	06/15/21 15:20	06/16/21 17:01	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	06/15/21 15:20	06/16/21 17:01	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	06/15/21 15:20	06/16/21 17:01	1
PCB-1262	ND		0.24	0.11	mg/Kg	☼	06/15/21 15:20	06/16/21 17:01	1
PCB-1268	ND		0.24	0.11	mg/Kg	☼	06/15/21 15:20	06/16/21 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*60 - 154*	*06/15/21 15:20*	*06/16/21 17:01*	*1*
Tetrachloro-m-xylene	*85*		*60 - 154*	*06/15/21 15:20*	*06/16/21 17:01*	*1*
DCB Decachlorobiphenyl	*88*		*65 - 174*	*06/15/21 15:20*	*06/16/21 17:01*	*1*
DCB Decachlorobiphenyl	*90*		*65 - 174*	*06/15/21 15:20*	*06/16/21 17:01*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		16	5.3	ug/Kg	☼	06/15/21 06:53	06/24/21 11:52	1
2,4-D	ND		16	10	ug/Kg	☼	06/15/21 06:53	06/24/21 11:52	1
Silvex (2,4,5-TP)	ND		16	5.9	ug/Kg	☼	06/15/21 06:53	06/24/21 11:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*35*		*28 - 129*	*06/15/21 06:53*	*06/24/21 11:52*	*1*
2,4-Dichlorophenylacetic acid	*30*		*28 - 129*	*06/15/21 06:53*	*06/24/21 11:52*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4580**	**B**	10.5	4.6	mg/Kg	☼	06/15/21 07:46	06/16/21 16:09	1
Antimony	ND		15.8	0.42	mg/Kg	☼	06/15/21 07:46	06/16/21 16:09	1
Arsenic	**2.5**		2.1	0.42	mg/Kg	☼	06/15/21 07:46	06/16/21 16:09	1
Barium	**24.5**		0.53	0.12	mg/Kg	☼	06/15/21 07:46	06/16/21 16:09	1
Beryllium	**0.19**	**J**	0.21	0.030	mg/Kg	☼	06/15/21 07:46	06/16/21 16:09	1
Cadmium	**0.11**	**J**	0.21	0.032	mg/Kg	☼	06/15/21 07:46	06/16/21 16:09	1
Calcium	**118000**	**B**	105	7.0	mg/Kg	☼	06/15/21 07:46	06/17/21 16:44	2
Chromium	**6.4**	**B**	0.53	0.21	mg/Kg	☼	06/15/21 07:46	06/16/21 16:09	1
Cobalt	**3.3**		0.53	0.053	mg/Kg	☼	06/15/21 07:46	06/16/21 16:09	1
Copper	**21.4**		2.1	0.44	mg/Kg	☼	06/15/21 07:46	06/17/21 16:44	2
Iron	**8470**	**B**	10.5	3.7	mg/Kg	☼	06/15/21 07:46	06/16/21 16:09	1
Lead	**6.7**		1.1	0.25	mg/Kg	☼	06/15/21 07:46	06/16/21 16:09	1
Magnesium	**29900**	**B**	21.1	0.98	mg/Kg	☼	06/15/21 07:46	06/16/21 16:09	1
Manganese	**530**	**B**	0.21	0.034	mg/Kg	☼	06/15/21 07:46	06/16/21 16:09	1
Nickel	**9.0**		5.3	0.24	mg/Kg	☼	06/15/21 07:46	06/16/21 16:09	1
Potassium	**1330**		31.6	21.1	mg/Kg	☼	06/15/21 07:46	06/16/21 16:09	1
Selenium	ND		4.2	0.42	mg/Kg	☼	06/15/21 07:46	06/16/21 16:09	1
Silver	ND		0.63	0.21	mg/Kg	☼	06/15/21 07:46	06/16/21 16:09	1
Sodium	**125**	**J**	148	13.7	mg/Kg	☼	06/15/21 07:46	06/16/21 16:09	1
Thallium	ND		6.3	0.32	mg/Kg	☼	06/15/21 07:46	06/16/21 16:09	1
Vanadium	**9.1**		0.53	0.12	mg/Kg	☼	06/15/21 07:46	06/16/21 16:09	1
Zinc	**68.4**		2.1	0.67	mg/Kg	☼	06/15/21 07:46	06/16/21 16:09	1

Client Sample ID: S-2A 0-2

Lab Sample ID: 480-185887-3
Date Collected: 06/10/21 08:00
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 99.9

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.016	0.0065	mg/Kg	☼	06/18/21 13:15	06/18/21 15:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.94	0.45	mg/Kg	☼	06/15/21 12:49	06/15/21 19:10	1

Client Sample ID: S-2B 2-12

Lab Sample ID: 480-185887-4
Date Collected: 06/10/21 08:05
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 97.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.1	0.37	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
1,1,2,2-Tetrachloroethane	ND	vs *3	5.1	0.83	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
1,1,2-Trichloroethane	ND	vs	5.1	0.67	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.1	1.2	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
1,1-Dichloroethane	ND	vs	5.1	0.63	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
1,1-Dichloroethene	ND	vs	5.1	0.63	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
1,2,4-Trichlorobenzene	ND	vs *3	5.1	0.31	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
1,2-Dibromo-3-Chloropropane	ND	vs *3	5.1	2.6	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
1,2-Dichlorobenzene	ND	vs *3	5.1	0.40	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
1,2-Dichloroethane	ND	vs	5.1	0.26	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
1,2-Dichloropropane	ND	vs	5.1	2.6	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
1,3-Dichlorobenzene	ND	vs *3	5.1	0.26	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
1,4-Dichlorobenzene	ND	vs *3	5.1	0.72	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
2-Butanone (MEK)	ND	vs	26	1.9	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
2-Hexanone	ND	vs	26	2.6	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
4-Methyl-2-pentanone (MIBK)	ND	vs	26	1.7	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Acetone	ND	vs	26	4.3	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Benzene	ND	vs	5.1	0.25	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Bromodichloromethane	ND	vs	5.1	0.69	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Bromoform	ND	vs	5.1	2.6	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Bromomethane	ND	vs	5.1	0.46	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Carbon disulfide	ND	vs	5.1	2.6	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Carbon tetrachloride	ND	vs	5.1	0.50	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Chlorobenzene	ND	vs	5.1	0.68	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Dibromochloromethane	ND	vs	5.1	0.66	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Chloroethane	ND	vs *+	5.1	1.2	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Chloroform	ND	vs	5.1	0.32	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Chloromethane	ND	vs	5.1	0.31	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
cis-1,2-Dichloroethene	ND	vs	5.1	0.66	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
cis-1,3-Dichloropropene	ND	vs	5.1	0.74	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Cyclohexane	ND	vs	5.1	0.72	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Dichlorodifluoromethane	ND	vs	5.1	0.42	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Ethylbenzene	ND	vs	5.1	0.35	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
1,2-Dibromoethane	ND	vs	5.1	0.66	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Isopropylbenzene	ND	vs *3	5.1	0.77	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Methyl acetate	ND	vs	26	3.1	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Methyl tert-butyl ether	ND	vs	5.1	0.50	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Methylcyclohexane	ND	vs	5.1	0.78	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1

Client: New York State D.E.C.
Job ID: 480-185887-1
Project/Site: Former Raeco Products #828107

Client Sample ID: S-2B 2-12
Lab Sample ID: 480-185887-4
Date Collected: 06/10/21 08:05
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 97.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	**6.0**	**vs**	5.1	2.4	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Styrene	ND	vs	5.1	0.26	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Tetrachloroethene	ND	vs	5.1	0.69	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Toluene	ND	vs	5.1	0.39	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
trans-1,2-Dichloroethene	ND	vs	5.1	0.53	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
trans-1,3-Dichloropropene	ND	vs	5.1	2.3	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Trichloroethene	ND	vs	5.1	1.1	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Trichlorofluoromethane	ND	vs	5.1	0.48	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Vinyl chloride	ND	vs	5.1	0.63	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1
Xylenes, Total	ND	vs	10	0.86	ug/Kg	☼	06/14/21 18:03	06/14/21 19:54	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼			*06/14/21 18:03*	*06/14/21 19:54*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*71 - 125*	*06/14/21 18:03*	*06/14/21 19:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*06/14/21 18:03*	*06/14/21 19:54*	*1*
4-Bromofluorobenzene (Surr)	*81*		*72 - 126*	*06/14/21 18:03*	*06/14/21 19:54*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 140*	*06/14/21 18:03*	*06/14/21 19:54*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		8700	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
bis (2-chloroisopropyl) ether	ND		8700	1700	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
2,4,5-Trichlorophenol	ND		8700	2400	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
2,4,6-Trichlorophenol	ND		8700	1700	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
2,4-Dichlorophenol	ND		8700	930	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
2,4-Dimethylphenol	ND		8700	2100	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
2,4-Dinitrophenol	ND		85000	40000	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
2,4-Dinitrotoluene	ND		8700	1800	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
2,6-Dinitrotoluene	ND		8700	1000	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
2-Chloronaphthalene	ND		8700	1400	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
2-Chlorophenol	ND		17000	1600	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
2-Methylphenol	ND		8700	1000	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
2-Methylnaphthalene	ND		8700	1700	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
2-Nitroaniline	ND		17000	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
2-Nitrophenol	ND		8700	2500	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
3,3'-Dichlorobenzidine	ND		17000	10000	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
3-Nitroaniline	ND		17000	2400	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
4,6-Dinitro-2-methylphenol	ND		17000	8700	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
4-Bromophenyl phenyl ether	ND		8700	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
4-Chloro-3-methylphenol	ND		8700	2200	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
4-Chloroaniline	ND		8700	2200	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
4-Chlorophenyl phenyl ether	ND		8700	1100	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
4-Methylphenol	ND		17000	1000	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
4-Nitroaniline	ND		17000	4600	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
4-Nitrophenol	ND		17000	6100	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Acenaphthene	ND		8700	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Acenaphthylene	**1200**	**J**	8700	1100	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Acetophenone	ND		8700	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5

Client Sample ID: S-2B 2-12
Lab Sample ID: 480-185887-4
Date Collected: 06/10/21 08:05
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 97.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		8700	2200	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Atrazine	ND		8700	3000	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Benzaldehyde	ND		8700	6900	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Benzo[a]anthracene	ND		8700	870	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Benzo[a]pyrene	ND		8700	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Benzo[b]fluoranthene	**2700**	**J**	8700	1400	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Benzo[g,h,i]perylene	**2700**	**J**	8700	930	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Benzo[k]fluoranthene	ND		8700	1100	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Bis(2-chloroethoxy)methane	ND		8700	1900	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Bis(2-chloroethyl)ether	ND		8700	1100	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Bis(2-ethylhexyl) phthalate	**12000**		8700	3000	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Butyl benzyl phthalate	ND		8700	1400	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Caprolactam	ND		8700	2600	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Carbazole	ND		8700	1000	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Chrysene	ND		8700	2000	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Dibenz(a,h)anthracene	ND		8700	1500	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Di-n-butyl phthalate	ND		8700	1500	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Di-n-octyl phthalate	ND		8700	1000	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Dibenzofuran	ND		8700	1000	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Diethyl phthalate	ND		8700	1100	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Dimethyl phthalate	ND		8700	1000	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Fluoranthene	**1900**	**J**	8700	930	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Fluorene	ND		8700	1000	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Hexachlorobenzene	ND		8700	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Hexachlorobutadiene	ND		8700	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Hexachlorocyclopentadiene	ND		8700	1200	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Hexachloroethane	ND		8700	1100	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Indeno[1,2,3-cd]pyrene	**2400**	**J**	8700	1100	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Isophorone	ND		8700	1900	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
N-Nitrosodi-n-propylamine	ND		8700	1500	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
N-Nitrosodiphenylamine	ND		8700	7100	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Naphthalene	ND		8700	1100	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Nitrobenzene	ND		8700	980	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Pentachlorophenol	ND		17000	8700	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Phenanthrene	ND		8700	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Phenol	ND		8700	1300	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5
Pyrene	**1800**	**J**	8700	1000	ug/Kg	☼	06/17/21 08:52	06/18/21 21:16	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*7400*	*T J*	*ug/Kg*	☼	*11.91*		*06/17/21 08:52*	*06/18/21 21:16*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*53 - 120*	*06/17/21 08:52*	*06/18/21 21:16*	*5*
Phenol-d5 (Surr)	*0*	*S1-*	*54 - 120*	*06/17/21 08:52*	*06/18/21 21:16*	*5*
p-Terphenyl-d14 (Surr)	*108*		*79 - 130*	*06/17/21 08:52*	*06/18/21 21:16*	*5*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*54 - 120*	*06/17/21 08:52*	*06/18/21 21:16*	*5*
2-Fluorobiphenyl	*87*		*60 - 120*	*06/17/21 08:52*	*06/18/21 21:16*	*5*
2-Fluorophenol (Surr)	*0*	*S1-*	*52 - 120*	*06/17/21 08:52*	*06/18/21 21:16*	*5*

Client Sample ID: S-2B 2-12
Date Collected: 06/10/21 08:05
Date Received: 06/11/21 08:00

Lab Sample ID: 480-185887-4
Matrix: Solid
Percent Solids: 97.1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		170	33	ug/Kg	☼	06/18/21 08:46	06/21/21 12:22	100
4,4'-DDE	ND		170	35	ug/Kg	☼	06/18/21 08:46	06/21/21 12:22	100
4,4'-DDT	ND		170	39	ug/Kg	☼	06/18/21 08:46	06/21/21 12:22	100
Aldrin	ND		170	41	ug/Kg	☼	06/18/21 08:46	06/21/21 12:22	100
alpha-BHC	ND		170	30	ug/Kg	☼	06/18/21 08:46	06/21/21 12:22	100
cis-Chlordane	ND		170	83	ug/Kg	☼	06/18/21 08:46	06/21/21 12:22	100
beta-BHC	ND		170	30	ug/Kg	☼	06/18/21 08:46	06/21/21 12:22	100
delta-BHC	ND		170	31	ug/Kg	☼	06/18/21 08:46	06/21/21 12:22	100
Dieldrin	ND		170	40	ug/Kg	☼	06/18/21 08:46	06/21/21 12:22	100
Endosulfan I	ND		170	32	ug/Kg	☼	06/18/21 08:46	06/21/21 12:22	100
Endosulfan II	ND		170	30	ug/Kg	☼	06/18/21 08:46	06/21/21 12:22	100
Endosulfan sulfate	ND		170	31	ug/Kg	☼	06/18/21 08:46	06/21/21 12:22	100
Endrin	ND		170	33	ug/Kg	☼	06/18/21 08:46	06/21/21 12:22	100
Endrin aldehyde	ND		170	43	ug/Kg	☼	06/18/21 08:46	06/21/21 12:22	100
Endrin ketone	ND		170	41	ug/Kg	☼	06/18/21 08:46	06/21/21 12:22	100
gamma-BHC (Lindane)	ND		170	31	ug/Kg	☼	06/18/21 08:46	06/21/21 12:22	100
trans-Chlordane	ND		170	53	ug/Kg	☼	06/18/21 08:46	06/21/21 12:22	100
Heptachlor	ND		170	36	ug/Kg	☼	06/18/21 08:46	06/21/21 12:22	100
Heptachlor epoxide	ND		170	43	ug/Kg	☼	06/18/21 08:46	06/21/21 12:22	100
Methoxychlor	ND		170	34	ug/Kg	☼	06/18/21 08:46	06/21/21 12:22	100
Toxaphene	ND		1700	980	ug/Kg	☼	06/18/21 08:46	06/21/21 12:22	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*06/18/21 08:46*	*06/21/21 12:22*	*100*
DCB Decachlorobiphenyl	*0*	*S1-*	*45 - 120*	*06/18/21 08:46*	*06/21/21 12:22*	*100*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*06/18/21 08:46*	*06/21/21 12:22*	*100*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*06/18/21 08:46*	*06/21/21 12:22*	*100*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.046	mg/Kg	☼	06/15/21 15:20	06/16/21 17:13	1
PCB-1221	ND		0.24	0.046	mg/Kg	☼	06/15/21 15:20	06/16/21 17:13	1
PCB-1232	ND		0.24	0.046	mg/Kg	☼	06/15/21 15:20	06/16/21 17:13	1
PCB-1242	ND		0.24	0.046	mg/Kg	☼	06/15/21 15:20	06/16/21 17:13	1
PCB-1248	ND		0.24	0.046	mg/Kg	☼	06/15/21 15:20	06/16/21 17:13	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	06/15/21 15:20	06/16/21 17:13	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	06/15/21 15:20	06/16/21 17:13	1
PCB-1262	ND		0.24	0.11	mg/Kg	☼	06/15/21 15:20	06/16/21 17:13	1
PCB-1268	ND		0.24	0.11	mg/Kg	☼	06/15/21 15:20	06/16/21 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*60 - 154*	*06/15/21 15:20*	*06/16/21 17:13*	*1*
Tetrachloro-m-xylene	*79*		*60 - 154*	*06/15/21 15:20*	*06/16/21 17:13*	*1*
DCB Decachlorobiphenyl	*79*		*65 - 174*	*06/15/21 15:20*	*06/16/21 17:13*	*1*
DCB Decachlorobiphenyl	*81*		*65 - 174*	*06/15/21 15:20*	*06/16/21 17:13*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		17	5.4	ug/Kg	☼	06/15/21 06:53	06/24/21 16:20	1
2,4-D	ND		17	11	ug/Kg	☼	06/15/21 06:53	06/24/21 16:20	1

Client Sample ID: S-2B 2-12
Lab Sample ID: 480-185887-4
Date Collected: 06/10/21 08:05
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 97.1

Method: 8151A - Herbicides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	ND		17	6.0	ug/Kg	☼	06/15/21 06:53	06/24/21 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*68*		*28 - 129*	*06/15/21 06:53*	*06/24/21 16:20*	*1*
2,4-Dichlorophenylacetic acid	*55*		*28 - 129*	*06/15/21 06:53*	*06/24/21 16:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3710**	**B**	10.8	4.8	mg/Kg	☼	06/15/21 07:46	06/16/21 16:13	1
Antimony	ND		16.2	0.43	mg/Kg	☼	06/15/21 07:46	06/16/21 16:13	1
Arsenic	**2.4**		2.2	0.43	mg/Kg	☼	06/15/21 07:46	06/16/21 16:13	1
Barium	**60.5**		0.54	0.12	mg/Kg	☼	06/15/21 07:46	06/16/21 16:13	1
Beryllium	**0.17**	**J**	0.22	0.030	mg/Kg	☼	06/15/21 07:46	06/16/21 16:13	1
Cadmium	**0.18**	**J**	0.22	0.032	mg/Kg	☼	06/15/21 07:46	06/16/21 16:13	1
Calcium	**146000**	**B**	108	7.1	mg/Kg	☼	06/15/21 07:46	06/17/21 16:48	2
Chromium	**6.2**	**B**	0.54	0.22	mg/Kg	☼	06/15/21 07:46	06/16/21 16:13	1
Cobalt	**2.5**		0.54	0.054	mg/Kg	☼	06/15/21 07:46	06/16/21 16:13	1
Copper	**15.7**		2.2	0.45	mg/Kg	☼	06/15/21 07:46	06/17/21 16:48	2
Iron	**7490**	**B**	10.8	3.8	mg/Kg	☼	06/15/21 07:46	06/16/21 16:13	1
Lead	**18.1**		1.1	0.26	mg/Kg	☼	06/15/21 07:46	06/16/21 16:13	1
Magnesium	**79600**	**B**	43.3	2.0	mg/Kg	☼	06/15/21 07:46	06/17/21 16:48	2
Manganese	**390**	**B**	0.22	0.035	mg/Kg	☼	06/15/21 07:46	06/16/21 16:13	1
Nickel	**7.2**		5.4	0.25	mg/Kg	☼	06/15/21 07:46	06/16/21 16:13	1
Potassium	**1250**		32.5	21.7	mg/Kg	☼	06/15/21 07:46	06/16/21 16:13	1
Selenium	ND		4.3	0.43	mg/Kg	☼	06/15/21 07:46	06/16/21 16:13	1
Silver	ND		0.65	0.22	mg/Kg	☼	06/15/21 07:46	06/16/21 16:13	1
Sodium	**302**		152	14.1	mg/Kg	☼	06/15/21 07:46	06/16/21 16:13	1
Thallium	ND		6.5	0.32	mg/Kg	☼	06/15/21 07:46	06/16/21 16:13	1
Vanadium	**11.6**		0.54	0.12	mg/Kg	☼	06/15/21 07:46	06/16/21 16:13	1
Zinc	**110**		2.2	0.69	mg/Kg	☼	06/15/21 07:46	06/16/21 16:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0093**	**J**	0.017	0.0070	mg/Kg	☼	06/18/21 13:15	06/18/21 15:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.96	0.46	mg/Kg	☼	06/15/21 12:49	06/15/21 19:11	1

Client Sample ID: S-3A 0-2
Lab Sample ID: 480-185887-5
Date Collected: 06/10/21 08:10
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 98.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	4.9	0.36	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
1,1,2,2-Tetrachloroethane	ND	vs	4.9	0.79	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
1,1,2-Trichloroethane	ND	vs	4.9	0.64	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	4.9	1.1	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
1,1-Dichloroethane	ND	vs	4.9	0.60	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
1,1-Dichloroethene	ND	vs	4.9	0.60	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1

Client: New York State D.E.C.
Job ID: 480-185887-1
Project/Site: Former Raeco Products #828107

Client Sample ID: S-3A 0-2
Lab Sample ID: 480-185887-5
Date Collected: 06/10/21 08:10
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 98.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	vs	4.9	0.30	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
1,2-Dibromo-3-Chloropropane	ND	vs	4.9	2.4	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
1,2-Dichlorobenzene	ND	vs	4.9	0.38	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
1,2-Dichloroethane	ND	vs	4.9	0.25	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
1,2-Dichloropropane	ND	vs	4.9	2.4	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
1,3-Dichlorobenzene	ND	vs	4.9	0.25	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
1,4-Dichlorobenzene	ND	vs	4.9	0.69	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
2-Butanone (MEK)	ND	vs	24	1.8	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
2-Hexanone	ND	vs	24	2.4	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
4-Methyl-2-pentanone (MIBK)	ND	vs	24	1.6	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Acetone	ND	vs	24	4.1	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Benzene	ND	vs	4.9	0.24	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Bromodichloromethane	ND	vs	4.9	0.66	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Bromoform	ND	vs	4.9	2.4	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Bromomethane	ND	vs	4.9	0.44	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Carbon disulfide	ND	vs	4.9	2.4	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Carbon tetrachloride	ND	vs	4.9	0.47	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Chlorobenzene	ND	vs	4.9	0.65	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Dibromochloromethane	ND	vs	4.9	0.63	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Chloroethane	ND	vs *+	4.9	1.1	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Chloroform	ND	vs	4.9	0.30	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Chloromethane	ND	vs	4.9	0.30	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
cis-1,2-Dichloroethene	ND	vs	4.9	0.63	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
cis-1,3-Dichloropropene	ND	vs	4.9	0.70	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Cyclohexane	ND	vs	4.9	0.69	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Dichlorodifluoromethane	ND	vs	4.9	0.40	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Ethylbenzene	ND	vs	4.9	0.34	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
1,2-Dibromoethane	ND	vs	4.9	0.63	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Isopropylbenzene	ND	vs	4.9	0.74	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Methyl acetate	ND	vs	24	3.0	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Methyl tert-butyl ether	ND	vs	4.9	0.48	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Methylcyclohexane	ND	vs	4.9	0.74	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Methylene Chloride	**4.0**	**J vs**	4.9	2.3	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Styrene	ND	vs	4.9	0.24	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Tetrachloroethene	ND	vs	4.9	0.66	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Toluene	ND	vs	4.9	0.37	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
trans-1,2-Dichloroethene	ND	vs	4.9	0.51	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
trans-1,3-Dichloropropene	ND	vs	4.9	2.2	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Trichloroethene	ND	vs	4.9	1.1	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Trichlorofluoromethane	ND	vs	4.9	0.46	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Vinyl chloride	ND	vs	4.9	0.60	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1
Xylenes, Total	ND	vs	9.8	0.82	ug/Kg	☼	06/13/21 20:59	06/14/21 05:04	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼			*06/13/21 20:59*	*06/14/21 05:04*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*71 - 125*	*06/13/21 20:59*	*06/14/21 05:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*06/13/21 20:59*	*06/14/21 05:04*	*1*
4-Bromofluorobenzene (Surr)	*94*		*72 - 126*	*06/13/21 20:59*	*06/14/21 05:04*	*1*

Client: New York State D.E.C.
Job ID: 480-185887-1
Project/Site: Former Raeco Products #828107

Client Sample ID: S-3A 0-2
Lab Sample ID: 480-185887-5
Date Collected: 06/10/21 08:10
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 98.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*106*		*60 - 140*	*06/13/21 20:59*	*06/14/21 05:04*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
2,4,5-Trichlorophenol	ND		170	47	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
2,4-Dichlorophenol	ND		170	18	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
2,4-Dimethylphenol	ND		170	41	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
2,4-Dinitrophenol	ND		1700	790	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
2-Chloronaphthalene	ND		170	28	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
2-Chlorophenol	ND		330	31	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
2-Methylphenol	ND		170	20	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
2-Methylnaphthalene	ND		170	34	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
2-Nitroaniline	ND		330	25	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
2-Nitrophenol	ND		170	49	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
3-Nitroaniline	ND		330	48	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
4-Chloroaniline	ND		170	42	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
4-Methylphenol	ND		330	20	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
4-Nitroaniline	ND		330	90	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
4-Nitrophenol	ND		330	120	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Acenaphthene	ND		170	25	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Acenaphthylene	ND		170	22	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Acetophenone	ND		170	23	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Anthracene	ND		170	42	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Atrazine	ND		170	60	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Benzaldehyde	ND		170	140	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Benzo[a]anthracene	**66**	**J**	170	17	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Benzo[a]pyrene	**97**	**J**	170	25	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Benzo[b]fluoranthene	**120**	**J**	170	27	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Benzo[g,h,i]perylene	**96**	**J**	170	18	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Benzo[k]fluoranthene	**58**	**J**	170	22	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Bis(2-ethylhexyl) phthalate	**73**	**J**	170	59	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Butyl benzyl phthalate	ND		170	28	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Caprolactam	ND		170	52	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Carbazole	ND		170	20	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Chrysene	**88**	**J**	170	38	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Dibenz(a,h)anthracene	**48**	**J**	170	30	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Di-n-butyl phthalate	**52**	**J B**	170	29	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1

Client: New York State D.E.C.
Job ID: 480-185887-1
Project/Site: Former Raeco Products #828107

Client Sample ID: S-3A 0-2
Lab Sample ID: 480-185887-5
Date Collected: 06/10/21 08:10
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 98.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		170	20	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Dibenzofuran	ND		170	20	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Diethyl phthalate	ND		170	22	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Dimethyl phthalate	ND		170	20	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Fluoranthene	**150**	**J**	170	18	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Fluorene	ND		170	20	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Hexachlorobenzene	ND		170	23	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Hexachlorobutadiene	ND		170	25	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Hexachloroethane	ND		170	22	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Indeno[1,2,3-cd]pyrene	**86**	**J**	170	21	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Isophorone	ND		170	36	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Naphthalene	ND		170	22	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Nitrobenzene	ND		170	19	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Pentachlorophenol	ND		330	170	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Phenanthrene	**67**	**J**	170	25	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Phenol	ND		170	26	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1
Pyrene	**130**	**J**	170	20	ug/Kg	☼	06/17/21 08:52	06/18/21 21:40	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*1700*	*T J*	*ug/Kg*	☼	*1.98*		*06/17/21 08:52*	*06/18/21 21:40*	*1*
Unknown	*210*	*T J*	*ug/Kg*	☼	*3.44*		*06/17/21 08:52*	*06/18/21 21:40*	*1*
Unknown	*240*	*T J*	*ug/Kg*	☼	*13.20*		*06/17/21 08:52*	*06/18/21 21:40*	*1*
E-15-Heptadecenal	*320*	*T J N*	*ug/Kg*	☼	*13.74*	*1000130-97-9*	*06/17/21 08:52*	*06/18/21 21:40*	*1*
Unknown	*320*	*T J*	*ug/Kg*	☼	*14.76*		*06/17/21 08:52*	*06/18/21 21:40*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*59*		*53 - 120*	*06/17/21 08:52*	*06/18/21 21:40*	*1*
Phenol-d5 (Surr)	*60*		*54 - 120*	*06/17/21 08:52*	*06/18/21 21:40*	*1*
p-Terphenyl-d14 (Surr)	*75*	*S1-*	*79 - 130*	*06/17/21 08:52*	*06/18/21 21:40*	*1*
2,4,6-Tribromophenol (Surr)	*69*		*54 - 120*	*06/17/21 08:52*	*06/18/21 21:40*	*1*
2-Fluorobiphenyl	*66*		*60 - 120*	*06/17/21 08:52*	*06/18/21 21:40*	*1*
2-Fluorophenol (Surr)	*55*		*52 - 120*	*06/17/21 08:52*	*06/18/21 21:40*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**2.6**	**J**	8.4	1.6	ug/Kg	☼	06/18/21 08:46	06/21/21 12:42	5
4,4'-DDE	**64**		8.4	1.8	ug/Kg	☼	06/18/21 08:46	06/21/21 12:42	5
4,4'-DDT	**130**		8.4	2.0	ug/Kg	☼	06/18/21 08:46	06/21/21 12:42	5
Aldrin	ND		8.4	2.1	ug/Kg	☼	06/18/21 08:46	06/21/21 12:42	5
alpha-BHC	ND		8.4	1.5	ug/Kg	☼	06/18/21 08:46	06/21/21 12:42	5
cis-Chlordane	ND		8.4	4.2	ug/Kg	☼	06/18/21 08:46	06/21/21 12:42	5
beta-BHC	ND		8.4	1.5	ug/Kg	☼	06/18/21 08:46	06/21/21 12:42	5
delta-BHC	ND		8.4	1.6	ug/Kg	☼	06/18/21 08:46	06/21/21 12:42	5
Dieldrin	ND		8.4	2.0	ug/Kg	☼	06/18/21 08:46	06/21/21 12:42	5
Endosulfan I	ND		8.4	1.6	ug/Kg	☼	06/18/21 08:46	06/21/21 12:42	5
Endosulfan II	ND		8.4	1.5	ug/Kg	☼	06/18/21 08:46	06/21/21 12:42	5

Client Sample ID: S-3A 0-2
Date Collected: 06/10/21 08:10
Date Received: 06/11/21 08:00

Lab Sample ID: 480-185887-5
Matrix: Solid
Percent Solids: 98.2

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		8.4	1.6	ug/Kg	☼	06/18/21 08:46	06/21/21 12:42	5
Endrin	ND		8.4	1.7	ug/Kg	☼	06/18/21 08:46	06/21/21 12:42	5
Endrin aldehyde	**5.7**	**J**	8.4	2.1	ug/Kg	☼	06/18/21 08:46	06/21/21 12:42	5
Endrin ketone	ND		8.4	2.1	ug/Kg	☼	06/18/21 08:46	06/21/21 12:42	5
gamma-BHC (Lindane)	ND		8.4	1.5	ug/Kg	☼	06/18/21 08:46	06/21/21 12:42	5
trans-Chlordane	ND		8.4	2.7	ug/Kg	☼	06/18/21 08:46	06/21/21 12:42	5
Heptachlor	ND		8.4	1.8	ug/Kg	☼	06/18/21 08:46	06/21/21 12:42	5
Heptachlor epoxide	ND		8.4	2.2	ug/Kg	☼	06/18/21 08:46	06/21/21 12:42	5
Methoxychlor	**3.4**	**J**	8.4	1.7	ug/Kg	☼	06/18/21 08:46	06/21/21 12:42	5
Toxaphene	ND		84	49	ug/Kg	☼	06/18/21 08:46	06/21/21 12:42	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*102*		*45 - 120*	*06/18/21 08:46*	*06/21/21 12:42*	*5*
DCB Decachlorobiphenyl	*81*		*45 - 120*	*06/18/21 08:46*	*06/21/21 12:42*	*5*
Tetrachloro-m-xylene	*56*		*30 - 124*	*06/18/21 08:46*	*06/21/21 12:42*	*5*
Tetrachloro-m-xylene	*64*		*30 - 124*	*06/18/21 08:46*	*06/21/21 12:42*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg	☼	06/15/21 15:20	06/16/21 17:26	1
PCB-1221	ND		0.25	0.049	mg/Kg	☼	06/15/21 15:20	06/16/21 17:26	1
PCB-1232	ND		0.25	0.049	mg/Kg	☼	06/15/21 15:20	06/16/21 17:26	1
PCB-1242	ND		0.25	0.049	mg/Kg	☼	06/15/21 15:20	06/16/21 17:26	1
PCB-1248	ND		0.25	0.049	mg/Kg	☼	06/15/21 15:20	06/16/21 17:26	1
PCB-1254	ND		0.25	0.12	mg/Kg	☼	06/15/21 15:20	06/16/21 17:26	1
PCB-1260	ND		0.25	0.12	mg/Kg	☼	06/15/21 15:20	06/16/21 17:26	1
PCB-1262	ND		0.25	0.12	mg/Kg	☼	06/15/21 15:20	06/16/21 17:26	1
PCB-1268	ND		0.25	0.12	mg/Kg	☼	06/15/21 15:20	06/16/21 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*60 - 154*	*06/15/21 15:20*	*06/16/21 17:26*	*1*
Tetrachloro-m-xylene	*85*		*60 - 154*	*06/15/21 15:20*	*06/16/21 17:26*	*1*
DCB Decachlorobiphenyl	*82*		*65 - 174*	*06/15/21 15:20*	*06/16/21 17:26*	*1*
DCB Decachlorobiphenyl	*85*		*65 - 174*	*06/15/21 15:20*	*06/16/21 17:26*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		17	5.3	ug/Kg	☼	06/15/21 06:53	06/24/21 16:50	1
2,4-D	ND		17	10	ug/Kg	☼	06/15/21 06:53	06/24/21 16:50	1
Silvex (2,4,5-TP)	ND		17	6.0	ug/Kg	☼	06/15/21 06:53	06/24/21 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*52*		*28 - 129*	*06/15/21 06:53*	*06/24/21 16:50*	*1*
2,4-Dichlorophenylacetic acid	*44*		*28 - 129*	*06/15/21 06:53*	*06/24/21 16:50*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5780**	**B**	10.4	4.6	mg/Kg	☼	06/15/21 07:46	06/16/21 16:17	1
Antimony	ND		15.6	0.41	mg/Kg	☼	06/15/21 07:46	06/16/21 16:17	1
Arsenic	**4.9**		2.1	0.41	mg/Kg	☼	06/15/21 07:46	06/16/21 16:17	1
Barium	**80.3**		0.52	0.11	mg/Kg	☼	06/15/21 07:46	06/16/21 16:17	1

Client Sample ID: S-3A 0-2

Lab Sample ID: 480-185887-5

Date Collected: 06/10/21 08:10
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 98.2

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.28		0.21	0.029	mg/Kg	☼	06/15/21 07:46	06/16/21 16:17	1
Cadmium	0.43		0.21	0.031	mg/Kg	☼	06/15/21 07:46	06/16/21 16:17	1
Calcium	13300	B	51.8	3.4	mg/Kg	☼	06/15/21 07:46	06/16/21 16:17	1
Chromium	7.8	B	0.52	0.21	mg/Kg	☼	06/15/21 07:46	06/16/21 16:17	1
Cobalt	3.5		0.52	0.052	mg/Kg	☼	06/15/21 07:46	06/16/21 16:17	1
Copper	12.9		1.0	0.22	mg/Kg	☼	06/15/21 07:46	06/16/21 16:17	1
Iron	9300	B	10.4	3.6	mg/Kg	☼	06/15/21 07:46	06/16/21 16:17	1
Lead	76.1		1.0	0.25	mg/Kg	☼	06/15/21 07:46	06/16/21 16:17	1
Magnesium	5540	B	20.7	0.96	mg/Kg	☼	06/15/21 07:46	06/16/21 16:17	1
Manganese	219	B	0.21	0.033	mg/Kg	☼	06/15/21 07:46	06/16/21 16:17	1
Nickel	9.1		5.2	0.24	mg/Kg	☼	06/15/21 07:46	06/16/21 16:17	1
Potassium	785		31.1	20.7	mg/Kg	☼	06/15/21 07:46	06/16/21 16:17	1
Selenium	ND		4.1	0.41	mg/Kg	☼	06/15/21 07:46	06/16/21 16:17	1
Silver	3.8		0.62	0.21	mg/Kg	☼	06/15/21 07:46	06/16/21 16:17	1
Sodium	249		145	13.5	mg/Kg	☼	06/15/21 07:46	06/16/21 16:17	1
Thallium	ND		6.2	0.31	mg/Kg	☼	06/15/21 07:46	06/16/21 16:17	1
Vanadium	11.5		0.52	0.11	mg/Kg	☼	06/15/21 07:46	06/16/21 16:17	1
Zinc	101		2.1	0.66	mg/Kg	☼	06/15/21 07:46	06/16/21 16:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.020	0.0081	mg/Kg	☼	06/18/21 13:15	06/18/21 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.94	0.45	mg/Kg	☼	06/15/21 12:49	06/15/21 19:13	1

Client Sample ID: S-3B 2-12

Lab Sample ID: 480-185887-6

Date Collected: 06/10/21 08:15
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 93.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.3	0.39	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
1,1,2,2-Tetrachloroethane	ND	vs F1	5.3	0.86	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
1,1,2-Trichloroethane	ND	vs F1	5.3	0.69	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.3	1.2	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
1,1-Dichloroethane	ND	vs	5.3	0.65	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
1,1-Dichloroethene	ND	vs	5.3	0.65	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
1,2,4-Trichlorobenzene	ND	vs F1	5.3	0.32	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
1,2-Dibromo-3-Chloropropane	ND	vs F1	5.3	2.7	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
1,2-Dichlorobenzene	ND	vs F1	5.3	0.41	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
1,2-Dichloroethane	ND	vs F1	5.3	0.27	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
1,2-Dichloropropane	ND	vs	5.3	2.7	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
1,3-Dichlorobenzene	ND	vs F1	5.3	0.27	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
1,4-Dichlorobenzene	ND	vs F1	5.3	0.74	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
2-Butanone (MEK)	ND	vs F1	27	1.9	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
2-Hexanone	ND	vs F1	27	2.7	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
4-Methyl-2-pentanone (MIBK)	ND	vs F1	27	1.7	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Acetone	ND	vs F1	27	4.5	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1

Client: New York State D.E.C.
Job ID: 480-185887-1
Project/Site: Former Raeco Products #828107

Client Sample ID: S-3B 2-12
Lab Sample ID: 480-185887-6
Date Collected: 06/10/21 08:15
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 93.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	vs	5.3	0.26	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Bromodichloromethane	ND	vs	5.3	0.71	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Bromoform	ND	vs F1	5.3	2.7	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Bromomethane	ND	vs	5.3	0.48	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Carbon disulfide	ND	vs	5.3	2.7	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Carbon tetrachloride	ND	vs	5.3	0.51	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Chlorobenzene	ND	vs F1	5.3	0.70	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Dibromochloromethane	ND	vs F1	5.3	0.68	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Chloroethane	ND	vs *+ F1	5.3	1.2	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Chloroform	ND	vs	5.3	0.33	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Chloromethane	ND	vs	5.3	0.32	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
cis-1,2-Dichloroethene	ND	vs	5.3	0.68	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
cis-1,3-Dichloropropene	ND	vs F1	5.3	0.76	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Cyclohexane	ND	vs F1	5.3	0.74	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Dichlorodifluoromethane	ND	vs	5.3	0.44	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Ethylbenzene	ND	vs F1	5.3	0.37	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
1,2-Dibromoethane	ND	vs F1	5.3	0.68	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Isopropylbenzene	ND	vs F1	5.3	0.80	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Methyl acetate	ND	vs	27	3.2	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Methyl tert-butyl ether	ND	vs	5.3	0.52	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Methylcyclohexane	ND	vs F1	5.3	0.81	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Methylene Chloride	ND	vs	5.3	2.4	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Styrene	ND	vs F1	5.3	0.27	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Tetrachloroethene	ND	vs F1	5.3	0.71	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Toluene	ND	vs F1	5.3	0.40	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
trans-1,2-Dichloroethene	ND	vs	5.3	0.55	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
trans-1,3-Dichloropropene	ND	vs F1	5.3	2.3	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Trichloroethene	ND	vs F1	5.3	1.2	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Trichlorofluoromethane	ND	vs	5.3	0.50	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Vinyl chloride	ND	vs	5.3	0.65	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1
Xylenes, Total	ND	vs F1	11	0.89	ug/Kg	☼	06/13/21 20:59	06/14/21 05:28	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼			*06/13/21 20:59*	*06/14/21 05:28*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*71 - 125*	*06/13/21 20:59*	*06/14/21 05:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 126*	*06/13/21 20:59*	*06/14/21 05:28*	*1*
4-Bromofluorobenzene (Surr)	*97*		*72 - 126*	*06/13/21 20:59*	*06/14/21 05:28*	*1*
Dibromofluoromethane (Surr)	*105*		*60 - 140*	*06/13/21 20:59*	*06/14/21 05:28*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND	F2 F1	180	26	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
bis (2-chloroisopropyl) ether	ND	F2	180	36	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
2,4,5-Trichlorophenol	ND	F2	180	48	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
2,4,6-Trichlorophenol	ND	F2	180	36	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
2,4-Dichlorophenol	ND	F2	180	19	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
2,4-Dimethylphenol	ND		180	43	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
2,4-Dinitrophenol	ND	F2	1700	820	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1

Client: New York State D.E.C.
Job ID: 480-185887-1
Project/Site: Former Raeco Products #828107

Client Sample ID: S-3B 2-12
Lab Sample ID: 480-185887-6
Date Collected: 06/10/21 08:15
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 93.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND	F2	180	37	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
2,6-Dinitrotoluene	ND	F2 F1	180	21	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
2-Chloronaphthalene	ND	F2 F1	180	29	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
2-Chlorophenol	ND	F2	350	32	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
2-Methylphenol	ND	F2	180	21	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
2-Methylnaphthalene	ND	F2 F1	180	36	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
2-Nitroaniline	ND	F2	350	26	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
2-Nitrophenol	ND	F2	180	50	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
3,3'-Dichlorobenzidine	ND	F2	350	210	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
3-Nitroaniline	ND	F2	350	49	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
4,6-Dinitro-2-methylphenol	ND	F2	350	180	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
4-Bromophenyl phenyl ether	ND	F2	180	25	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
4-Chloro-3-methylphenol	ND	F2	180	44	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
4-Chloroaniline	ND	F2	180	44	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
4-Chlorophenyl phenyl ether	ND	F2 F1	180	22	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
4-Methylphenol	ND	F2	350	21	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
4-Nitroaniline	ND	F2	350	93	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
4-Nitrophenol	ND	F2	350	120	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Acenaphthene	ND	F2 F1	180	26	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Acenaphthylene	ND	F2	180	23	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Acetophenone	ND	F2	180	24	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Anthracene	ND	F2	180	44	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Atrazine	ND	F2	180	62	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Benzaldehyde	ND	F2	180	140	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Benzo[a]anthracene	**47**	**J F2**	180	18	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Benzo[a]pyrene	**75**	**J F2 F1**	180	26	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Benzo[b]fluoranthene	**100**	**J F2**	180	28	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Benzo[g,h,i]perylene	**77**	**J F2**	180	19	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Benzo[k]fluoranthene	**30**	**J F2**	180	23	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Bis(2-chloroethoxy)methane	ND	F2 F1	180	38	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Bis(2-chloroethyl)ether	ND	F2	180	23	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Bis(2-ethylhexyl) phthalate	**84**	**J F2**	180	61	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Butyl benzyl phthalate	ND	F2	180	29	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Caprolactam	ND	F2	180	53	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Carbazole	ND	F2	180	21	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Chrysene	**59**	**J F2 F1**	180	40	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Dibenz(a,h)anthracene	ND	F2	180	31	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Di-n-butyl phthalate	**120**	**J F2 B**	180	30	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Di-n-octyl phthalate	ND	F2	180	21	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Dibenzofuran	ND	F2 F1	180	21	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Diethyl phthalate	ND	F2 F1	180	23	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Dimethyl phthalate	ND	F2 F1	180	21	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Fluoranthene	**97**	**J F2**	180	19	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Fluorene	ND	F2 F1	180	21	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Hexachlorobenzene	ND	F2	180	24	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Hexachlorobutadiene	ND		180	26	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Hexachlorocyclopentadiene	ND		180	24	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Hexachloroethane	ND		180	23	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Indeno[1,2,3-cd]pyrene	**71**	**J F2**	180	22	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1

Client Sample ID: S-3B 2-12
Date Collected: 06/10/21 08:15
Date Received: 06/11/21 08:00

Lab Sample ID: 480-185887-6
Matrix: Solid
Percent Solids: 93.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	ND	F2	180	38	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
N-Nitrosodi-n-propylamine	ND	F2	180	30	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
N-Nitrosodiphenylamine	ND	F2	180	140	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Naphthalene	ND	F2	180	23	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Nitrobenzene	ND	F2	180	20	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Pentachlorophenol	ND	F2	350	180	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Phenanthrene	**44**	**J F2**	180	26	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Phenol	ND		180	27	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1
Pyrene	**83**	**J F2**	180	21	ug/Kg	☼	06/17/21 08:52	06/18/21 19:40	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*1700*	*T J*	*ug/Kg*	☼	*1.96*		*06/17/21 08:52*	*06/18/21 19:40*	*1*
Unknown	*400*	*T J*	*ug/Kg*	☼	*3.42*		*06/17/21 08:52*	*06/18/21 19:40*	*1*
Unknown	*150*	*T J*	*ug/Kg*	☼	*13.20*		*06/17/21 08:52*	*06/18/21 19:40*	*1*
17-Pentatriacontene	*270*	*T J N*	*ug/Kg*	☼	*13.74*	*6971-40-0*	*06/17/21 08:52*	*06/18/21 19:40*	*1*
Hexadecane	*150*	*T J N*	*ug/Kg*	☼	*14.75*	*544-76-3*	*06/17/21 08:52*	*06/18/21 19:40*	*1*
Unknown	*190*	*T J*	*ug/Kg*	☼	*15.69*		*06/17/21 08:52*	*06/18/21 19:40*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*62*		*53 - 120*	*06/17/21 08:52*	*06/18/21 19:40*	*1*
Phenol-d5 (Surr)	*62*		*54 - 120*	*06/17/21 08:52*	*06/18/21 19:40*	*1*
p-Terphenyl-d14 (Surr)	*85*		*79 - 130*	*06/17/21 08:52*	*06/18/21 19:40*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*54 - 120*	*06/17/21 08:52*	*06/18/21 19:40*	*1*
2-Fluorobiphenyl	*65*		*60 - 120*	*06/17/21 08:52*	*06/18/21 19:40*	*1*
2-Fluorophenol (Surr)	*57*		*52 - 120*	*06/17/21 08:52*	*06/18/21 19:40*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		18	3.4	ug/Kg	☼	06/18/21 08:46	06/21/21 11:03	10
4,4'-DDE	**45**	**F1**	18	3.7	ug/Kg	☼	06/18/21 08:46	06/21/21 11:03	10
4,4'-DDT	**94**		18	4.1	ug/Kg	☼	06/18/21 08:46	06/21/21 11:03	10
Aldrin	ND		18	4.3	ug/Kg	☼	06/18/21 08:46	06/21/21 11:03	10
alpha-BHC	ND		18	3.2	ug/Kg	☼	06/18/21 08:46	06/21/21 11:03	10
cis-Chlordane	ND		18	8.8	ug/Kg	☼	06/18/21 08:46	06/21/21 11:03	10
beta-BHC	ND		18	3.2	ug/Kg	☼	06/18/21 08:46	06/21/21 11:03	10
delta-BHC	ND		18	3.3	ug/Kg	☼	06/18/21 08:46	06/21/21 11:03	10
Dieldrin	ND		18	4.2	ug/Kg	☼	06/18/21 08:46	06/21/21 11:03	10
Endosulfan I	ND		18	3.4	ug/Kg	☼	06/18/21 08:46	06/21/21 11:03	10
Endosulfan II	ND		18	3.2	ug/Kg	☼	06/18/21 08:46	06/21/21 11:03	10
Endosulfan sulfate	ND		18	3.3	ug/Kg	☼	06/18/21 08:46	06/21/21 11:03	10
Endrin	ND		18	3.5	ug/Kg	☼	06/18/21 08:46	06/21/21 11:03	10
Endrin aldehyde	ND		18	4.5	ug/Kg	☼	06/18/21 08:46	06/21/21 11:03	10
Endrin ketone	ND		18	4.3	ug/Kg	☼	06/18/21 08:46	06/21/21 11:03	10
gamma-BHC (Lindane)	ND		18	3.2	ug/Kg	☼	06/18/21 08:46	06/21/21 11:03	10
trans-Chlordane	ND		18	5.6	ug/Kg	☼	06/18/21 08:46	06/21/21 11:03	10
Heptachlor	ND		18	3.8	ug/Kg	☼	06/18/21 08:46	06/21/21 11:03	10
Heptachlor epoxide	ND		18	4.5	ug/Kg	☼	06/18/21 08:46	06/21/21 11:03	10
Methoxychlor	**3.7**	**J**	18	3.6	ug/Kg	☼	06/18/21 08:46	06/21/21 11:03	10
Toxaphene	ND		180	100	ug/Kg	☼	06/18/21 08:46	06/21/21 11:03	10

Client Sample ID: S-3B 2-12
Lab Sample ID: 480-185887-6

Date Collected: 06/10/21 08:15
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 93.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*103*		*45 - 120*	*06/18/21 08:46*	*06/21/21 11:03*	*10*
DCB Decachlorobiphenyl	*62*		*45 - 120*	*06/18/21 08:46*	*06/21/21 11:03*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*06/18/21 08:46*	*06/21/21 11:03*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 124*	*06/18/21 08:46*	*06/21/21 11:03*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.051	mg/Kg	☼	06/15/21 15:20	06/16/21 16:48	1
PCB-1221	ND		0.26	0.051	mg/Kg	☼	06/15/21 15:20	06/16/21 16:48	1
PCB-1232	ND		0.26	0.051	mg/Kg	☼	06/15/21 15:20	06/16/21 16:48	1
PCB-1242	ND		0.26	0.051	mg/Kg	☼	06/15/21 15:20	06/16/21 16:48	1
PCB-1248	ND		0.26	0.051	mg/Kg	☼	06/15/21 15:20	06/16/21 16:48	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	06/15/21 15:20	06/16/21 16:48	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	06/15/21 15:20	06/16/21 16:48	1
PCB-1262	ND		0.26	0.12	mg/Kg	☼	06/15/21 15:20	06/16/21 16:48	1
PCB-1268	ND		0.26	0.12	mg/Kg	☼	06/15/21 15:20	06/16/21 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*60 - 154*	*06/15/21 15:20*	*06/16/21 16:48*	*1*
Tetrachloro-m-xylene	*103*		*60 - 154*	*06/15/21 15:20*	*06/16/21 16:48*	*1*
DCB Decachlorobiphenyl	*103*		*65 - 174*	*06/15/21 15:20*	*06/16/21 16:48*	*1*
DCB Decachlorobiphenyl	*100*		*65 - 174*	*06/15/21 15:20*	*06/16/21 16:48*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		17	5.6	ug/Kg	☼	06/15/21 06:53	06/24/21 08:24	1
2,4-D	ND		17	11	ug/Kg	☼	06/15/21 06:53	06/24/21 08:24	1
Silvex (2,4,5-TP)	ND		17	6.3	ug/Kg	☼	06/15/21 06:53	06/24/21 08:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*71*		*28 - 129*	*06/15/21 06:53*	*06/24/21 08:24*	*1*
2,4-Dichlorophenylacetic acid	*59*		*28 - 129*	*06/15/21 06:53*	*06/24/21 08:24*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5250**	**B F1**	11.1	4.9	mg/Kg	☼	06/15/21 07:46	06/16/21 16:32	1
Antimony	ND		16.6	0.44	mg/Kg	☼	06/15/21 07:46	06/16/21 16:32	1
Arsenic	**4.0**		2.2	0.44	mg/Kg	☼	06/15/21 07:46	06/16/21 16:32	1
Barium	**32.0**		0.55	0.12	mg/Kg	☼	06/15/21 07:46	06/16/21 16:32	1
Beryllium	**0.21**	**J**	0.22	0.031	mg/Kg	☼	06/15/21 07:46	06/16/21 16:32	1
Cadmium	**0.35**		0.22	0.033	mg/Kg	☼	06/15/21 07:46	06/16/21 16:32	1
Calcium	**15300**	**B**	55.4	3.7	mg/Kg	☼	06/15/21 07:46	06/16/21 16:32	1
Chromium	**6.8**	**B**	0.55	0.22	mg/Kg	☼	06/15/21 07:46	06/16/21 16:32	1
Cobalt	**2.9**		0.55	0.055	mg/Kg	☼	06/15/21 07:46	06/16/21 16:32	1
Copper	**9.5**		1.1	0.23	mg/Kg	☼	06/15/21 07:46	06/16/21 16:32	1
Iron	**12300**	**B F2**	11.1	3.9	mg/Kg	☼	06/15/21 07:46	06/16/21 16:32	1
Lead	**61.0**	**F1**	1.1	0.27	mg/Kg	☼	06/15/21 07:46	06/16/21 16:32	1
Magnesium	**8560**	**B F1**	22.1	1.0	mg/Kg	☼	06/15/21 07:46	06/16/21 16:32	1
Manganese	**181**	**B**	0.22	0.035	mg/Kg	☼	06/15/21 07:46	06/16/21 16:32	1
Nickel	**7.7**		5.5	0.25	mg/Kg	☼	06/15/21 07:46	06/16/21 16:32	1
Potassium	**873**	**F1**	33.2	22.1	mg/Kg	☼	06/15/21 07:46	06/16/21 16:32	1

Client: New York State D.E.C.
Job ID: 480-185887-1
Project/Site: Former Raeco Products #828107

Client Sample ID: S-3B 2-12
Lab Sample ID: 480-185887-6
Date Collected: 06/10/21 08:15
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 93.8

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		4.4	0.44	mg/Kg	☼	06/15/21 07:46	06/16/21 16:32	1
Silver	**2.6**		0.66	0.22	mg/Kg	☼	06/15/21 07:46	06/16/21 16:32	1
Sodium	**332**		155	14.4	mg/Kg	☼	06/15/21 07:46	06/16/21 16:32	1
Thallium	ND		6.6	0.33	mg/Kg	☼	06/15/21 07:46	06/16/21 16:32	1
Vanadium	**10.6**		0.55	0.12	mg/Kg	☼	06/15/21 07:46	06/16/21 16:32	1
Zinc	**78.0**	**F1 F2**	2.2	0.71	mg/Kg	☼	06/15/21 07:46	06/16/21 16:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.035**	**F2**	0.017	0.0070	mg/Kg	☼	06/18/21 13:15	06/18/21 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND	F1	0.94	0.45	mg/Kg	☼	06/15/21 12:49	06/15/21 19:03	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Former Raeco Products #828107

Job ID: 480-185887-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(71-125)	(64-126)	(72-126)	(60-140)
480-185887-1	S-1A 0-2	98	108	86	108
480-185887-2	S-1B 2-12	97	107	89	106
480-185887-3	S-2A 0-2	97	112	94	109
480-185887-4	S-2B 2-12	109	106	81	103
480-185887-5	S-3A 0-2	94	106	94	106
480-185887-6	S-3B 2-12	93	104	97	105
480-185887-6 MS	S-3B 2-12	94	92	99	102
480-185887-6 MSD	S-3B 2-12	96	92	95	103
LCS 480-585182/1-A	Lab Control Sample	94	96	100	102
LCS 480-585343/1-A	Lab Control Sample	101	100	97	98
MB 480-585182/2-A	Method Blank	92	101	99	101
MB 480-585343/2-A	Method Blank	100	99	94	96

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	PHL	TPHd14	TBP	FBP	2FP
Lab Sample ID	Client Sample ID	(53-120)	(54-120)	(79-130)	(54-120)	(60-120)	(52-120)
480-185887-1	S-1A 0-2	84	74	84	86	78	78
480-185887-2	S-1B 2-12	81	74	85	84	81	75
480-185887-3	S-2A 0-2	70	63	72 S1-	78	76	58
480-185887-4	S-2B 2-12	0 S1-	0 S1-	108	0 S1-	87	0 S1-
480-185887-5	S-3A 0-2	59	60	75 S1-	69	66	55
480-185887-6	S-3B 2-12	62	62	85	77	65	57
480-185887-6 MS	S-3B 2-12	66	66	92	83	75	59
480-185887-6 MSD	S-3B 2-12	50 S1-	48 S1-	64 S1-	58	53 S1-	45 S1-
LCS 480-585825/2-A	Lab Control Sample	66	65	79	67	69	59
MB 480-585825/1-A	Method Blank	76	74	111	86	76	70

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-185887-1	S-1A 0-2	273 S1+	442 S1+	0 S1-	0 S1-

Surrogate Summary

Client: New York State D.E.C.
Job ID: 480-185887-1
Project/Site: Former Raeco Products #828107

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-185887-2	S-1B 2-12	255 S1+	521 S1+	0 S1-	0 S1-
480-185887-3	S-2A 0-2	0 S1-	0 S1-	0 S1-	0 S1-
480-185887-4	S-2B 2-12	0 S1-	0 S1-	0 S1-	0 S1-
480-185887-5	S-3A 0-2	102	81	56	64
480-185887-6	S-3B 2-12	103	62	0 S1-	0 S1-
480-185887-6 MS	S-3B 2-12	143 S1+	70	51	58
480-185887-6 MSD	S-3B 2-12	113	77	0 S1-	0 S1-
LCS 480-585998/2-A	Lab Control Sample	99	90	71	62
MB 480-585998/1-A	Method Blank	91	89	60	53

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-185887-1	S-1A 0-2	119	117	103	106
480-185887-2	S-1B 2-12	110	111	102	105
480-185887-3	S-2A 0-2	85	85	90	88
480-185887-4	S-2B 2-12	79	75	81	79
480-185887-5	S-3A 0-2	85	78	85	82
480-185887-6	S-3B 2-12	103	92	100	103
480-185887-6 MS	S-3B 2-12	118	105	115	119
480-185887-6 MSD	S-3B 2-12	117	104	117	119
LCS 480-585184/2-A	Lab Control Sample	107	110	102	97
LCS 480-585515/2-A	Lab Control Sample	137	124	132	136
MB 480-585184/1-A	Method Blank	88	88	87	83
MB 480-585515/1-A	Method Blank	110	97	106	108

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(28-129)	(28-129)
480-185887-1	S-1A 0-2	61	52
480-185887-2	S-1B 2-12	70	60
480-185887-3	S-2A 0-2	35	30
480-185887-4	S-2B 2-12	68	55
480-185887-5	S-3A 0-2	52	44
480-185887-6	S-3B 2-12	71	59
480-185887-6 MS	S-3B 2-12	92	70
480-185887-6 MSD	S-3B 2-12	67	74
LCS 480-585353/2-A	Lab Control Sample	93	72

Surrogate Summary

Client: New York State D.E.C.
Job ID: 480-185887-1
Project/Site: Former Raeco Products #828107

Method: 8151A - Herbicides (GC) (Continued)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCPAA1 (28-129)	DCPAA2 (28-129)								
MB 480-585353/1-A	Method Blank	74	63								

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-585182/2-A
Matrix: Solid
Analysis Batch: 585176

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585182

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
2-Hexanone	ND		25	2.5	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Acetone	ND		25	4.2	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Benzene	ND		5.0	0.25	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Bromoform	ND		5.0	2.5	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Bromomethane	ND		5.0	0.45	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Chloroethane	ND		5.0	1.1	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Chloroform	ND		5.0	0.31	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Chloromethane	ND		5.0	0.30	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Cyclohexane	ND		5.0	0.70	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Methyl acetate	ND		25	3.0	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Styrene	ND		5.0	0.25	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Toluene	ND		5.0	0.38	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Trichloroethene	ND		5.0	1.1	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		06/13/21 20:59	06/13/21 21:57	1
Xylenes, Total	ND		10	0.84	ug/Kg		06/13/21 20:59	06/13/21 21:57	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-585182/2-A
Matrix: Solid
Analysis Batch: 585176

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585182

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg				06/13/21 20:59	06/13/21 21:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		71 - 125	06/13/21 20:59	06/13/21 21:57	1
1,2-Dichloroethane-d4 (Surr)	101		64 - 126	06/13/21 20:59	06/13/21 21:57	1
4-Bromofluorobenzene (Surr)	99		72 - 126	06/13/21 20:59	06/13/21 21:57	1
Dibromofluoromethane (Surr)	101		60 - 140	06/13/21 20:59	06/13/21 21:57	1

Lab Sample ID: LCS 480-585182/1-A
Matrix: Solid
Analysis Batch: 585176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585182

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	53.0		ug/Kg		106	77 - 121
1,1,2,2-Tetrachloroethane	50.0	42.4		ug/Kg		85	80 - 120
1,1,2-Trichloroethane	50.0	45.2		ug/Kg		90	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.8		ug/Kg		104	60 - 140
1,1-Dichloroethane	50.0	50.8		ug/Kg		102	73 - 126
1,1-Dichloroethene	50.0	50.8		ug/Kg		102	59 - 125
1,2,4-Trichlorobenzene	50.0	42.6		ug/Kg		85	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	40.5		ug/Kg		81	63 - 124
1,2-Dichlorobenzene	50.0	43.0		ug/Kg		86	75 - 120
1,2-Dichloroethane	50.0	48.1		ug/Kg		96	77 - 122
1,2-Dichloropropane	50.0	51.1		ug/Kg		102	75 - 124
1,3-Dichlorobenzene	50.0	44.5		ug/Kg		89	74 - 120
1,4-Dichlorobenzene	50.0	44.5		ug/Kg		89	73 - 120
2-Butanone (MEK)	250	212		ug/Kg		85	70 - 134
2-Hexanone	250	198		ug/Kg		79	59 - 130
4-Methyl-2-pentanone (MIBK)	250	197		ug/Kg		79	65 - 133
Acetone	250	195		ug/Kg		78	61 - 137
Benzene	50.0	53.2		ug/Kg		106	79 - 127
Bromodichloromethane	50.0	55.3		ug/Kg		111	80 - 122
Bromoform	50.0	45.0		ug/Kg		90	68 - 126
Bromomethane	50.0	63.2		ug/Kg		126	37 - 149
Carbon disulfide	50.0	51.4		ug/Kg		103	64 - 131
Carbon tetrachloride	50.0	54.8		ug/Kg		110	75 - 135
Chlorobenzene	50.0	45.6		ug/Kg		91	76 - 124
Dibromochloromethane	50.0	50.4		ug/Kg		101	76 - 125
Chloroethane	50.0	72.7	*+	ug/Kg		145	69 - 135
Chloroform	50.0	51.3		ug/Kg		103	80 - 120
Chloromethane	50.0	51.5		ug/Kg		103	63 - 127
cis-1,2-Dichloroethene	50.0	51.6		ug/Kg		103	81 - 120
cis-1,3-Dichloropropene	50.0	54.6		ug/Kg		109	80 - 120
Cyclohexane	50.0	47.6		ug/Kg		95	65 - 120
Dichlorodifluoromethane	50.0	40.9		ug/Kg		82	57 - 142
Ethylbenzene	50.0	46.7		ug/Kg		93	80 - 120
1,2-Dibromoethane	50.0	44.6		ug/Kg		89	78 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-585182/1-A
Matrix: Solid
Analysis Batch: 585176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585182

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	50.0	44.7		ug/Kg		89	72 - 120
Methyl acetate	100	85.0		ug/Kg		85	55 - 136
Methyl tert-butyl ether	50.0	48.7		ug/Kg		97	63 - 125
Methylcyclohexane	50.0	49.6		ug/Kg		99	60 - 140
Methylene Chloride	50.0	54.9		ug/Kg		110	61 - 127
Styrene	50.0	45.5		ug/Kg		91	80 - 120
Tetrachloroethene	50.0	44.5		ug/Kg		89	74 - 122
Toluene	50.0	45.6		ug/Kg		91	74 - 128
trans-1,2-Dichloroethene	50.0	52.7		ug/Kg		105	78 - 126
trans-1,3-Dichloropropene	50.0	47.7		ug/Kg		95	73 - 123
Trichloroethene	50.0	51.6		ug/Kg		103	77 - 129
Trichlorofluoromethane	50.0	51.7		ug/Kg		103	65 - 146
Vinyl chloride	50.0	57.4		ug/Kg		115	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*96*		*64 - 126*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*
Dibromofluoromethane (Surr)	*102*		*60 - 140*

Lab Sample ID: 480-185887-6 MS
Matrix: Solid
Analysis Batch: 585176

Client Sample ID: S-3B 2-12
Prep Type: Total/NA
Prep Batch: 585182

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND	vs	53.2	43.7	vs	ug/Kg	☼	82	77 - 121
1,1,2,2-Tetrachloroethane	ND	vs F1	53.2	30.7	vs F1	ug/Kg	☼	58	80 - 120
1,1,2-Trichloroethane	ND	vs F1	53.2	36.0	vs F1	ug/Kg	☼	68	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	53.2	40.3	vs	ug/Kg	☼	76	60 - 140
1,1-Dichloroethane	ND	vs	53.2	45.0	vs	ug/Kg	☼	85	73 - 126
1,1-Dichloroethene	ND	vs	53.2	41.5	vs	ug/Kg	☼	78	59 - 125
1,2,4-Trichlorobenzene	ND	vs F1	53.2	16.0	vs F1	ug/Kg	☼	30	64 - 120
1,2-Dibromo-3-Chloropropane	ND	vs F1	53.2	26.3	vs F1	ug/Kg	☼	50	63 - 124
1,2-Dichlorobenzene	ND	vs F1	53.2	25.0	vs F1	ug/Kg	☼	47	75 - 120
1,2-Dichloroethane	ND	vs F1	53.2	40.5	vs F1	ug/Kg	☼	76	77 - 122
1,2-Dichloropropane	ND	vs	53.2	43.5	vs	ug/Kg	☼	82	75 - 124
1,3-Dichlorobenzene	ND	vs F1	53.2	25.8	vs F1	ug/Kg	☼	48	74 - 120
1,4-Dichlorobenzene	ND	vs F1	53.2	25.6	vs F1	ug/Kg	☼	48	73 - 120
2-Butanone (MEK)	ND	vs F1	266	150	vs F1	ug/Kg	☼	57	70 - 134
2-Hexanone	ND	vs F1	266	138	vs F1	ug/Kg	☼	52	59 - 130
4-Methyl-2-pentanone (MIBK)	ND	vs F1	266	150	vs F1	ug/Kg	☼	56	65 - 133
Acetone	ND	vs F1	266	143	vs F1	ug/Kg	☼	54	61 - 137
Benzene	ND	vs	53.2	43.5	vs	ug/Kg	☼	82	79 - 127
Bromodichloromethane	ND	vs	53.2	44.8	vs	ug/Kg	☼	84	80 - 122
Bromoform	ND	vs F1	53.2	31.3	vs F1	ug/Kg	☼	59	68 - 126
Bromomethane	ND	vs	53.2	58.3	vs	ug/Kg	☼	110	37 - 149
Carbon disulfide	ND	vs	53.2	35.7	vs	ug/Kg	☼	67	64 - 131
Carbon tetrachloride	ND	vs	53.2	43.7	vs	ug/Kg	☼	82	75 - 135

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-185887-6 MS
Matrix: Solid
Analysis Batch: 585176

Client Sample ID: S-3B 2-12
Prep Type: Total/NA
Prep Batch: 585182

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	ND	vs F1	53.2	32.7	vs F1	ug/Kg	☼	62	76 - 124
Dibromochloromethane	ND	vs F1	53.2	38.0	vs F1	ug/Kg	☼	71	76 - 125
Chloroethane	ND	vs *+ F1	53.2	68.7	vs	ug/Kg	☼	129	69 - 135
Chloroform	ND	vs	53.2	44.0	vs	ug/Kg	☼	83	80 - 120
Chloromethane	ND	vs	53.2	49.7	vs	ug/Kg	☼	94	63 - 127
cis-1,2-Dichloroethene	ND	vs	53.2	42.9	vs	ug/Kg	☼	81	80 - 120
cis-1,3-Dichloropropene	ND	vs F1	53.2	39.3	vs F1	ug/Kg	☼	74	80 - 120
Cyclohexane	ND	vs F1	53.2	31.5	vs F1	ug/Kg	☼	59	65 - 120
Dichlorodifluoromethane	ND	vs	53.2	38.7	vs	ug/Kg	☼	73	57 - 142
Ethylbenzene	ND	vs F1	53.2	33.2	vs F1	ug/Kg	☼	62	80 - 120
1,2-Dibromoethane	ND	vs F1	53.2	32.2	vs F1	ug/Kg	☼	61	78 - 120
Isopropylbenzene	ND	vs F1	53.2	29.2	vs F1	ug/Kg	☼	55	72 - 120
Methyl acetate	ND	vs	106	86.7	vs	ug/Kg	☼	82	55 - 136
Methyl tert-butyl ether	ND	vs	53.2	41.6	vs	ug/Kg	☼	78	63 - 125
Methylcyclohexane	ND	vs F1	53.2	27.2	vs F1	ug/Kg	☼	51	60 - 140
Methylene Chloride	ND	vs	53.2	48.1	vs	ug/Kg	☼	91	61 - 127
Styrene	ND	vs F1	53.2	30.6	vs F1	ug/Kg	☼	58	80 - 120
Tetrachloroethene	ND	vs F1	53.2	31.3	vs F1	ug/Kg	☼	59	74 - 122
Toluene	ND	vs F1	53.2	36.0	vs F1	ug/Kg	☼	68	74 - 128
trans-1,2-Dichloroethene	ND	vs	53.2	43.0	vs	ug/Kg	☼	81	78 - 126
trans-1,3-Dichloropropene	ND	vs F1	53.2	34.5	vs F1	ug/Kg	☼	65	73 - 123
Trichloroethene	ND	vs F1	53.2	39.8	vs F1	ug/Kg	☼	75	77 - 129
Trichlorofluoromethane	ND	vs	53.2	50.8	vs	ug/Kg	☼	95	65 - 146
Vinyl chloride	ND	vs	53.2	53.3	vs	ug/Kg	☼	100	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*92*		*64 - 126*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*
Dibromofluoromethane (Surr)	*102*		*60 - 140*

Lab Sample ID: 480-185887-6 MSD
Matrix: Solid
Analysis Batch: 585176

Client Sample ID: S-3B 2-12
Prep Type: Total/NA
Prep Batch: 585182

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	vs	53.2	47.8	vs	ug/Kg	☼	90	77 - 121	9	30
1,1,2,2-Tetrachloroethane	ND	vs F1	53.2	33.4	vs F1	ug/Kg	☼	63	80 - 120	8	30
1,1,2-Trichloroethane	ND	vs F1	53.2	37.2	vs F1	ug/Kg	☼	70	78 - 122	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	53.2	44.2	vs	ug/Kg	☼	83	60 - 140	9	30
1,1-Dichloroethane	ND	vs	53.2	48.6	vs	ug/Kg	☼	91	73 - 126	8	30
1,1-Dichloroethene	ND	vs	53.2	45.5	vs	ug/Kg	☼	86	59 - 125	9	30
1,2,4-Trichlorobenzene	ND	vs F1	53.2	19.2	vs F1	ug/Kg	☼	36	64 - 120	18	30
1,2-Dibromo-3-Chloropropane	ND	vs F1	53.2	28.9	vs F1	ug/Kg	☼	54	63 - 124	9	30
1,2-Dichlorobenzene	ND	vs F1	53.2	29.8	vs F1	ug/Kg	☼	56	75 - 120	18	30
1,2-Dichloroethane	ND	vs F1	53.2	43.6	vs	ug/Kg	☼	82	77 - 122	7	30
1,2-Dichloropropane	ND	vs	53.2	46.5	vs	ug/Kg	☼	87	75 - 124	7	30
1,3-Dichlorobenzene	ND	vs F1	53.2	31.5	vs F1	ug/Kg	☼	59	74 - 120	20	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-185887-6 MSD
Matrix: Solid
Analysis Batch: 585176

Client Sample ID: S-3B 2-12
Prep Type: Total/NA
Prep Batch: 585182

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	ND	vs F1	53.2	31.2	vs F1	ug/Kg	☼	59	73 - 120	20	30
2-Butanone (MEK)	ND	vs F1	266	146	vs F1	ug/Kg	☼	55	70 - 134	3	30
2-Hexanone	ND	vs F1	266	132	vs F1	ug/Kg	☼	50	59 - 130	5	30
4-Methyl-2-pentanone (MIBK)	ND	vs F1	266	147	vs F1	ug/Kg	☼	55	65 - 133	2	30
Acetone	ND	vs F1	266	139	vs F1	ug/Kg	☼	52	61 - 137	3	30
Benzene	ND	vs	53.2	47.7	vs	ug/Kg	☼	90	79 - 127	9	30
Bromodichloromethane	ND	vs	53.2	49.2	vs	ug/Kg	☼	92	80 - 122	9	30
Bromoform	ND	vs F1	53.2	32.2	vs F1	ug/Kg	☼	61	68 - 126	3	30
Bromomethane	ND	vs	53.2	64.8	vs	ug/Kg	☼	122	37 - 149	11	30
Carbon disulfide	ND	vs	53.2	40.7	vs	ug/Kg	☼	76	64 - 131	13	30
Carbon tetrachloride	ND	vs	53.2	48.2	vs	ug/Kg	☼	91	75 - 135	10	30
Chlorobenzene	ND	vs F1	53.2	36.5	vs F1	ug/Kg	☼	69	76 - 124	11	30
Dibromochloromethane	ND	vs F1	53.2	40.2	vs	ug/Kg	☼	76	76 - 125	5	30
Chloroethane	ND	vs *+ F1	53.2	76.5	vs F1	ug/Kg	☼	144	69 - 135	11	30
Chloroform	ND	vs	53.2	48.1	vs	ug/Kg	☼	90	80 - 120	9	30
Chloromethane	ND	vs	53.2	52.5	vs	ug/Kg	☼	99	63 - 127	5	30
cis-1,2-Dichloroethene	ND	vs	53.2	46.3	vs	ug/Kg	☼	87	80 - 120	8	30
cis-1,3-Dichloropropene	ND	vs F1	53.2	42.7	vs	ug/Kg	☼	80	80 - 120	8	30
Cyclohexane	ND	vs F1	53.2	36.2	vs	ug/Kg	☼	68	65 - 120	14	30
Dichlorodifluoromethane	ND	vs	53.2	43.0	vs	ug/Kg	☼	81	57 - 142	11	30
Ethylbenzene	ND	vs F1	53.2	36.9	vs F1	ug/Kg	☼	69	80 - 120	11	30
1,2-Dibromoethane	ND	vs F1	53.2	33.9	vs F1	ug/Kg	☼	64	78 - 120	5	30
Isopropylbenzene	ND	vs F1	53.2	35.8	vs F1	ug/Kg	☼	67	72 - 120	20	30
Methyl acetate	ND	vs	106	87.4	vs	ug/Kg	☼	82	55 - 136	1	30
Methyl tert-butyl ether	ND	vs	53.2	43.5	vs	ug/Kg	☼	82	63 - 125	4	30
Methylcyclohexane	ND	vs F1	53.2	31.7	vs	ug/Kg	☼	60	60 - 140	15	30
Methylene Chloride	ND	vs	53.2	52.0	vs	ug/Kg	☼	98	61 - 127	8	30
Styrene	ND	vs F1	53.2	33.1	vs F1	ug/Kg	☼	62	80 - 120	8	30
Tetrachloroethene	ND	vs F1	53.2	34.8	vs F1	ug/Kg	☼	65	74 - 122	10	30
Toluene	ND	vs F1	53.2	39.6	vs	ug/Kg	☼	74	74 - 128	10	30
trans-1,2-Dichloroethene	ND	vs	53.2	46.1	vs	ug/Kg	☼	87	78 - 126	7	30
trans-1,3-Dichloropropene	ND	vs F1	53.2	36.9	vs F1	ug/Kg	☼	69	73 - 123	7	30
Trichloroethene	ND	vs F1	53.2	43.6	vs	ug/Kg	☼	82	77 - 129	9	30
Trichlorofluoromethane	ND	vs	53.2	56.1	vs	ug/Kg	☼	105	65 - 146	10	30
Vinyl chloride	ND	vs	53.2	58.2	vs	ug/Kg	☼	110	61 - 133	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*92*		*64 - 126*
4-Bromofluorobenzene (Surr)	*95*		*72 - 126*
Dibromofluoromethane (Surr)	*103*		*60 - 140*

Lab Sample ID: MB 480-585343/2-A
Matrix: Solid
Analysis Batch: 585327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585343

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		06/14/21 18:03	06/14/21 19:04	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-585343/2-A
Matrix: Solid
Analysis Batch: 585327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585343

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
2-Hexanone	ND		25	2.5	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Acetone	ND		25	4.2	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Benzene	ND		5.0	0.25	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Bromoform	ND		5.0	2.5	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Bromomethane	ND		5.0	0.45	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Chloroethane	ND		5.0	1.1	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Chloroform	ND		5.0	0.31	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Chloromethane	ND		5.0	0.30	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Cyclohexane	ND		5.0	0.70	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Methyl acetate	ND		25	3.0	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Styrene	0.308	J	5.0	0.25	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Toluene	ND		5.0	0.38	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Trichloroethene	ND		5.0	1.1	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		06/14/21 18:03	06/14/21 19:04	1
Xylenes, Total	ND		10	0.84	ug/Kg		06/14/21 18:03	06/14/21 19:04	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-585343/2-A
Matrix: Solid
Analysis Batch: 585327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585343

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg				06/14/21 18:03	06/14/21 19:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		71 - 125	06/14/21 18:03	06/14/21 19:04	1
1,2-Dichloroethane-d4 (Surr)	99		64 - 126	06/14/21 18:03	06/14/21 19:04	1
4-Bromofluorobenzene (Surr)	94		72 - 126	06/14/21 18:03	06/14/21 19:04	1
Dibromofluoromethane (Surr)	96		60 - 140	06/14/21 18:03	06/14/21 19:04	1

Lab Sample ID: LCS 480-585343/1-A
Matrix: Solid
Analysis Batch: 585327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	43.9		ug/Kg		88	77 - 121
1,1,2,2-Tetrachloroethane	50.0	47.5		ug/Kg		95	80 - 120
1,1,2-Trichloroethane	50.0	47.3		ug/Kg		95	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	41.6		ug/Kg		83	60 - 140
1,1-Dichloroethane	50.0	43.2		ug/Kg		86	73 - 126
1,1-Dichloroethene	50.0	41.8		ug/Kg		84	59 - 125
1,2,4-Trichlorobenzene	50.0	43.4		ug/Kg		87	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	47.8		ug/Kg		96	63 - 124
1,2-Dichlorobenzene	50.0	44.8		ug/Kg		90	75 - 120
1,2-Dichloroethane	50.0	43.0		ug/Kg		86	77 - 122
1,2-Dichloropropane	50.0	42.9		ug/Kg		86	75 - 124
1,3-Dichlorobenzene	50.0	46.2		ug/Kg		92	74 - 120
1,4-Dichlorobenzene	50.0	46.4		ug/Kg		93	73 - 120
2-Butanone (MEK)	250	203		ug/Kg		81	70 - 134
2-Hexanone	250	230		ug/Kg		92	59 - 130
4-Methyl-2-pentanone (MIBK)	250	221		ug/Kg		88	65 - 133
Acetone	250	191		ug/Kg		77	61 - 137
Benzene	50.0	44.3		ug/Kg		89	79 - 127
Bromodichloromethane	50.0	47.3		ug/Kg		95	80 - 122
Bromoform	50.0	46.3		ug/Kg		93	68 - 126
Bromomethane	50.0	65.2		ug/Kg		130	37 - 149
Carbon disulfide	50.0	41.4		ug/Kg		83	64 - 131
Carbon tetrachloride	50.0	46.2		ug/Kg		92	75 - 135
Chlorobenzene	50.0	45.7		ug/Kg		91	76 - 124
Dibromochloromethane	50.0	51.7		ug/Kg		103	76 - 125
Chloroethane	50.0	68.7	*+	ug/Kg		137	69 - 135
Chloroform	50.0	44.1		ug/Kg		88	80 - 120
Chloromethane	50.0	51.3		ug/Kg		103	63 - 127
cis-1,2-Dichloroethene	50.0	43.3		ug/Kg		87	81 - 120
cis-1,3-Dichloropropene	50.0	45.1		ug/Kg		90	80 - 120
Cyclohexane	50.0	37.2		ug/Kg		74	65 - 120
Dichlorodifluoromethane	50.0	42.7		ug/Kg		85	57 - 142
Ethylbenzene	50.0	45.9		ug/Kg		92	80 - 120
1,2-Dibromoethane	50.0	46.1		ug/Kg		92	78 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-585343/1-A
Matrix: Solid
Analysis Batch: 585327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	50.0	44.2		ug/Kg		88	72 - 120
Methyl acetate	100	81.8		ug/Kg		82	55 - 136
Methyl tert-butyl ether	50.0	43.4		ug/Kg		87	63 - 125
Methylcyclohexane	50.0	38.6		ug/Kg		77	60 - 140
Methylene Chloride	50.0	45.6		ug/Kg		91	61 - 127
Styrene	50.0	45.2		ug/Kg		90	80 - 120
Tetrachloroethene	50.0	44.0		ug/Kg		88	74 - 122
Toluene	50.0	45.5		ug/Kg		91	74 - 128
trans-1,2-Dichloroethene	50.0	44.4		ug/Kg		89	78 - 126
trans-1,3-Dichloropropene	50.0	49.8		ug/Kg		100	73 - 123
Trichloroethene	50.0	43.0		ug/Kg		86	77 - 129
Trichlorofluoromethane	50.0	49.6		ug/Kg		99	65 - 146
Vinyl chloride	50.0	53.8		ug/Kg		108	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 126*
4-Bromofluorobenzene (Surr)	*97*		*72 - 126*
Dibromofluoromethane (Surr)	*98*		*60 - 140*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-585825/1-A
Matrix: Solid
Analysis Batch: 586077

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
2,4-Dinitrophenol	ND		1700	780	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
2-Chloronaphthalene	ND		170	28	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
2-Chlorophenol	ND		330	31	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
2-Methylphenol	ND		170	20	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
2-Methylnaphthalene	ND		170	34	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
2-Nitroaniline	ND		330	25	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
2-Nitrophenol	ND		170	48	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
3-Nitroaniline	ND		330	47	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
4-Chloroaniline	ND		170	42	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		06/17/21 08:52	06/18/21 18:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-585825/1-A
Matrix: Solid
Analysis Batch: 586077

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		330	20	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
4-Nitroaniline	ND		330	88	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
4-Nitrophenol	ND		330	120	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Acenaphthene	ND		170	25	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Acenaphthylene	ND		170	22	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Acetophenone	ND		170	23	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Anthracene	ND		170	42	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Atrazine	ND		170	59	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Benzaldehyde	ND		170	130	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Benzo[a]anthracene	ND		170	17	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Benzo[a]pyrene	ND		170	25	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Caprolactam	ND		170	51	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Carbazole	ND		170	20	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Chrysene	ND		170	38	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Di-n-butyl phthalate	64.8	J	170	29	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Dibenzofuran	ND		170	20	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Diethyl phthalate	ND		170	22	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Dimethyl phthalate	ND		170	20	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Fluoranthene	ND		170	18	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Fluorene	ND		170	20	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Hexachlorobenzene	ND		170	23	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Hexachlorobutadiene	ND		170	25	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Hexachloroethane	ND		170	22	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Isophorone	ND		170	36	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Naphthalene	ND		170	22	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Nitrobenzene	ND		170	19	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Pentachlorophenol	ND		330	170	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Phenanthrene	ND		170	25	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Phenol	ND		170	26	ug/Kg		06/17/21 08:52	06/18/21 18:05	1
Pyrene	ND		170	20	ug/Kg		06/17/21 08:52	06/18/21 18:05	1

Tentatively Identified Compound	*Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*4940*	*T J*	*ug/Kg*		*1.98*		*06/17/21 08:52*	*06/18/21 18:05*	*1*
Unknown	*1100*	*T J*	*ug/Kg*		*3.42*		*06/17/21 08:52*	*06/18/21 18:05*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-585825/1-A
Matrix: Solid
Analysis Batch: 586077

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585825

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	76		53 - 120	06/17/21 08:52	06/18/21 18:05	1
Phenol-d5 (Surr)	74		54 - 120	06/17/21 08:52	06/18/21 18:05	1
p-Terphenyl-d14 (Surr)	111		79 - 130	06/17/21 08:52	06/18/21 18:05	1
2,4,6-Tribromophenol (Surr)	86		54 - 120	06/17/21 08:52	06/18/21 18:05	1
2-Fluorobiphenyl	76		60 - 120	06/17/21 08:52	06/18/21 18:05	1
2-Fluorophenol (Surr)	70		52 - 120	06/17/21 08:52	06/18/21 18:05	1

Lab Sample ID: LCS 480-585825/2-A
Matrix: Solid
Analysis Batch: 586077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	1670	1160		ug/Kg		70	59 - 120
bis (2-chloroisopropyl) ether	1670	1230		ug/Kg		74	44 - 120
2,4,5-Trichlorophenol	1670	1250		ug/Kg		75	59 - 126
2,4,6-Trichlorophenol	1670	1180		ug/Kg		71	59 - 123
2,4-Dichlorophenol	1670	1130		ug/Kg		68	61 - 120
2,4-Dimethylphenol	1670	1180		ug/Kg		71	59 - 120
2,4-Dinitrophenol	3330	2340		ug/Kg		70	41 - 146
2,4-Dinitrotoluene	1670	1330		ug/Kg		80	63 - 120
2,6-Dinitrotoluene	1670	1260		ug/Kg		76	66 - 120
2-Chloronaphthalene	1670	1170		ug/Kg		70	57 - 120
2-Chlorophenol	1670	1020		ug/Kg		61	53 - 120
2-Methylphenol	1670	1130		ug/Kg		68	54 - 120
2-Methylnaphthalene	1670	1140		ug/Kg		68	59 - 120
2-Nitroaniline	1670	1440		ug/Kg		86	61 - 120
2-Nitrophenol	1670	1120		ug/Kg		67	56 - 120
3,3'-Dichlorobenzidine	3330	2520		ug/Kg		76	54 - 120
3-Nitroaniline	1670	1260		ug/Kg		76	48 - 120
4,6-Dinitro-2-methylphenol	3330	2490		ug/Kg		75	49 - 122
4-Bromophenyl phenyl ether	1670	1230		ug/Kg		74	58 - 120
4-Chloro-3-methylphenol	1670	1260		ug/Kg		75	61 - 120
4-Chloroaniline	1670	1090		ug/Kg		65	38 - 120
4-Chlorophenyl phenyl ether	1670	1250		ug/Kg		75	63 - 124
4-Methylphenol	1670	1130		ug/Kg		68	55 - 120
4-Nitroaniline	1670	1380		ug/Kg		83	56 - 120
4-Nitrophenol	3330	2740		ug/Kg		82	43 - 147
Acenaphthene	1670	1230		ug/Kg		74	62 - 120
Acenaphthylene	1670	1230		ug/Kg		74	58 - 121
Acetophenone	1670	1080		ug/Kg		65	54 - 120
Anthracene	1670	1320		ug/Kg		79	62 - 120
Atrazine	3330	2670		ug/Kg		80	60 - 127
Benzaldehyde	3330	2400		ug/Kg		72	10 - 150
Benzo[a]anthracene	1670	1360		ug/Kg		81	65 - 120
Benzo[a]pyrene	1670	1350		ug/Kg		81	64 - 120
Benzo[b]fluoranthene	1670	1340		ug/Kg		80	64 - 120
Benzo[g,h,i]perylene	1670	1270		ug/Kg		77	45 - 145
Benzo[k]fluoranthene	1670	1360		ug/Kg		82	65 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-585825/2-A
Matrix: Solid
Analysis Batch: 586077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	1670	1100		ug/Kg		66	55 - 120
Bis(2-chloroethyl)ether	1670	1030		ug/Kg		62	45 - 120
Bis(2-ethylhexyl) phthalate	1670	1430		ug/Kg		86	61 - 133
Butyl benzyl phthalate	1670	1390		ug/Kg		83	61 - 129
Caprolactam	3330	2580		ug/Kg		77	47 - 120
Carbazole	1670	1330		ug/Kg		80	65 - 120
Chrysene	1670	1290		ug/Kg		77	64 - 120
Dibenz(a,h)anthracene	1670	1300		ug/Kg		78	54 - 132
Di-n-butyl phthalate	1670	1410		ug/Kg		84	58 - 130
Di-n-octyl phthalate	1670	1490		ug/Kg		89	57 - 133
Dibenzofuran	1670	1240		ug/Kg		74	63 - 120
Diethyl phthalate	1670	1390		ug/Kg		84	66 - 120
Dimethyl phthalate	1670	1310		ug/Kg		79	65 - 124
Fluoranthene	1670	1360		ug/Kg		81	62 - 120
Fluorene	1670	1290		ug/Kg		77	63 - 120
Hexachlorobenzene	1670	1240		ug/Kg		75	60 - 120
Hexachlorobutadiene	1670	996		ug/Kg		60	45 - 120
Hexachlorocyclopentadiene	1670	918		ug/Kg		55	47 - 120
Hexachloroethane	1670	894		ug/Kg		54	41 - 120
Indeno[1,2,3-cd]pyrene	1670	1270		ug/Kg		76	56 - 134
Isophorone	1670	1230		ug/Kg		74	56 - 120
N-Nitrosodi-n-propylamine	1670	1190		ug/Kg		71	52 - 120
N-Nitrosodiphenylamine	1670	1270		ug/Kg		76	51 - 128
Naphthalene	1670	1050		ug/Kg		63	55 - 120
Nitrobenzene	1670	1100		ug/Kg		66	54 - 120
Pentachlorophenol	3330	2230		ug/Kg		67	51 - 120
Phenanthrene	1670	1290		ug/Kg		78	60 - 120
Phenol	1670	1130		ug/Kg		68	53 - 120
Pyrene	1670	1390		ug/Kg		84	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*66*		*53 - 120*
Phenol-d5 (Surr)	*65*		*54 - 120*
p-Terphenyl-d14 (Surr)	*79*		*79 - 130*
2,4,6-Tribromophenol (Surr)	*67*		*54 - 120*
2-Fluorobiphenyl	*69*		*60 - 120*
2-Fluorophenol (Surr)	*59*		*52 - 120*

Lab Sample ID: 480-185887-6 MS
Matrix: Solid
Analysis Batch: 586077

Client Sample ID: S-3B 2-12
Prep Type: Total/NA
Prep Batch: 585825

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	ND	F2 F1	1770	1360		ug/Kg	☼	77	58 - 120
bis (2-chloroisopropyl) ether	ND	F2	1770	1290		ug/Kg	☼	73	31 - 120
2,4,5-Trichlorophenol	ND	F2	1770	1530		ug/Kg	☼	87	46 - 120
2,4,6-Trichlorophenol	ND	F2	1770	1500		ug/Kg	☼	84	41 - 123
2,4-Dichlorophenol	ND	F2	1770	1380		ug/Kg	☼	78	45 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-185887-6 MS
Matrix: Solid
Analysis Batch: 586077

Client Sample ID: S-3B 2-12
Prep Type: Total/NA
Prep Batch: 585825

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dimethylphenol	ND		1770	1350		ug/Kg	☼	76	52 - 120
2,4-Dinitrophenol	ND	F2	3540	2800		ug/Kg	☼	79	41 - 146
2,4-Dinitrotoluene	ND	F2	1770	1590		ug/Kg	☼	90	63 - 125
2,6-Dinitrotoluene	ND	F2 F1	1770	1550		ug/Kg	☼	87	66 - 120
2-Chloronaphthalene	ND	F2 F1	1770	1350		ug/Kg	☼	76	57 - 120
2-Chlorophenol	ND	F2	1770	1110		ug/Kg	☼	63	43 - 120
2-Methylphenol	ND	F2	1770	1280		ug/Kg	☼	72	48 - 120
2-Methylnaphthalene	ND	F2 F1	1770	1310		ug/Kg	☼	74	55 - 120
2-Nitroaniline	ND	F2	1770	1760		ug/Kg	☼	99	61 - 120
2-Nitrophenol	ND	F2	1770	1210		ug/Kg	☼	68	37 - 120
3,3'-Dichlorobenzidine	ND	F2	3540	3000		ug/Kg	☼	85	37 - 126
3-Nitroaniline	ND	F2	1770	1500		ug/Kg	☼	84	48 - 120
4,6-Dinitro-2-methylphenol	ND	F2	3540	3160		ug/Kg	☼	89	23 - 149
4-Bromophenyl phenyl ether	ND	F2	1770	1540		ug/Kg	☼	87	58 - 120
4-Chloro-3-methylphenol	ND	F2	1770	1600		ug/Kg	☼	90	49 - 125
4-Chloroaniline	ND	F2	1770	1220		ug/Kg	☼	69	38 - 120
4-Chlorophenyl phenyl ether	ND	F2 F1	1770	1560		ug/Kg	☼	88	63 - 124
4-Methylphenol	ND	F2	1770	1340		ug/Kg	☼	75	50 - 120
4-Nitroaniline	ND	F2	1770	1600		ug/Kg	☼	90	47 - 120
4-Nitrophenol	ND	F2	3540	3450		ug/Kg	☼	98	31 - 147
Acenaphthene	ND	F2 F1	1770	1470		ug/Kg	☼	83	60 - 120
Acenaphthylene	ND	F2	1770	1480		ug/Kg	☼	83	58 - 121
Acetophenone	ND	F2	1770	1190		ug/Kg	☼	67	47 - 120
Anthracene	ND	F2	1770	1640		ug/Kg	☼	93	62 - 120
Atrazine	ND	F2	3540	3180		ug/Kg	☼	90	60 - 150
Benzaldehyde	ND	F2	3540	2330		ug/Kg	☼	66	10 - 150
Benzo[a]anthracene	47	J F2	1770	1680		ug/Kg	☼	92	65 - 120
Benzo[a]pyrene	75	J F2 F1	1770	1680		ug/Kg	☼	91	64 - 120
Benzo[b]fluoranthene	100	J F2	1770	1740		ug/Kg	☼	92	10 - 150
Benzo[g,h,i]perylene	77	J F2	1770	1850		ug/Kg	☼	100	45 - 145
Benzo[k]fluoranthene	30	J F2	1770	1610		ug/Kg	☼	89	23 - 150
Bis(2-chloroethoxy)methane	ND	F2 F1	1770	1200		ug/Kg	☼	68	52 - 120
Bis(2-chloroethyl)ether	ND	F2	1770	1080		ug/Kg	☼	61	45 - 120
Bis(2-ethylhexyl) phthalate	84	J F2	1770	1790		ug/Kg	☼	96	61 - 133
Butyl benzyl phthalate	ND	F2	1770	1800		ug/Kg	☼	102	61 - 120
Caprolactam	ND	F2	3540	3310		ug/Kg	☼	94	37 - 133
Carbazole	ND	F2	1770	1650		ug/Kg	☼	93	59 - 120
Chrysene	59	J F2 F1	1770	1620		ug/Kg	☼	88	64 - 120
Dibenz(a,h)anthracene	ND	F2	1770	1810		ug/Kg	☼	102	54 - 132
Di-n-butyl phthalate	120	J F2 B	1770	1830		ug/Kg	☼	96	58 - 130
Di-n-octyl phthalate	ND	F2	1770	1830		ug/Kg	☼	103	57 - 133
Dibenzofuran	ND	F2 F1	1770	1500		ug/Kg	☼	85	62 - 120
Diethyl phthalate	ND	F2 F1	1770	1650		ug/Kg	☼	93	66 - 120
Dimethyl phthalate	ND	F2 F1	1770	1580		ug/Kg	☼	89	65 - 124
Fluoranthene	97	J F2	1770	1730		ug/Kg	☼	92	62 - 120
Fluorene	ND	F2 F1	1770	1540		ug/Kg	☼	87	63 - 120
Hexachlorobenzene	ND	F2	1770	1550		ug/Kg	☼	87	60 - 120
Hexachlorobutadiene	ND		1770	1020		ug/Kg	☼	57	45 - 120
Hexachlorocyclopentadiene	ND		1770	969		ug/Kg	☼	55	31 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-185887-6 MS
Matrix: Solid
Analysis Batch: 586077

Client Sample ID: S-3B 2-12
Prep Type: Total/NA
Prep Batch: 585825

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachloroethane	ND		1770	995		ug/Kg	☼	56	21 - 120
Indeno[1,2,3-cd]pyrene	71	J F2	1770	1790		ug/Kg	☼	97	56 - 134
Isophorone	ND	F2	1770	1380		ug/Kg	☼	78	56 - 120
N-Nitrosodi-n-propylamine	ND	F2	1770	1250		ug/Kg	☼	71	46 - 120
N-Nitrosodiphenylamine	ND	F2	1770	1630		ug/Kg	☼	92	20 - 128
Naphthalene	ND	F2	1770	1160		ug/Kg	☼	66	46 - 120
Nitrobenzene	ND	F2	1770	1210		ug/Kg	☼	68	49 - 120
Pentachlorophenol	ND	F2	3540	2870		ug/Kg	☼	81	25 - 136
Phenanthrene	44	J F2	1770	1650		ug/Kg	☼	90	60 - 122
Phenol	ND		1770	1230		ug/Kg	☼	70	50 - 120
Pyrene	83	J F2	1770	1770		ug/Kg	☼	95	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*66*		*53 - 120*
Phenol-d5 (Surr)	*66*		*54 - 120*
p-Terphenyl-d14 (Surr)	*92*		*79 - 130*
2,4,6-Tribromophenol (Surr)	*83*		*54 - 120*
2-Fluorobiphenyl	*75*		*60 - 120*
2-Fluorophenol (Surr)	*59*		*52 - 120*

Lab Sample ID: 480-185887-6 MSD
Matrix: Solid
Analysis Batch: 586077

Client Sample ID: S-3B 2-12
Prep Type: Total/NA
Prep Batch: 585825

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biphenyl	ND	F2 F1	1740	930	F2 F1	ug/Kg	☼	54	58 - 120	38	20
bis (2-chloroisopropyl) ether	ND	F2	1740	966	F2	ug/Kg	☼	56	31 - 120	28	24
2,4,5-Trichlorophenol	ND	F2	1740	1030	F2	ug/Kg	☼	59	46 - 120	40	18
2,4,6-Trichlorophenol	ND	F2	1740	1010	F2	ug/Kg	☼	58	41 - 123	39	19
2,4-Dichlorophenol	ND	F2	1740	972	F2	ug/Kg	☼	56	45 - 120	35	19
2,4-Dimethylphenol	ND		1740	951		ug/Kg	☼	55	52 - 120	35	42
2,4-Dinitrophenol	ND	F2	3470	1820	F2	ug/Kg	☼	53	41 - 146	42	22
2,4-Dinitrotoluene	ND	F2	1740	1120	F2	ug/Kg	☼	64	63 - 125	35	20
2,6-Dinitrotoluene	ND	F2 F1	1740	1050	F2 F1	ug/Kg	☼	60	66 - 120	39	15
2-Chloronaphthalene	ND	F2 F1	1740	956	F2 F1	ug/Kg	☼	55	57 - 120	34	21
2-Chlorophenol	ND	F2	1740	820	F2	ug/Kg	☼	47	43 - 120	30	25
2-Methylphenol	ND	F2	1740	902	F2	ug/Kg	☼	52	48 - 120	35	27
2-Methylnaphthalene	ND	F2 F1	1740	933	F2 F1	ug/Kg	☼	54	55 - 120	34	21
2-Nitroaniline	ND	F2	1740	1180	F2	ug/Kg	☼	68	61 - 120	40	15
2-Nitrophenol	ND	F2	1740	910	F2	ug/Kg	☼	52	37 - 120	29	18
3,3'-Dichlorobenzidine	ND	F2	3470	1990	F2	ug/Kg	☼	57	37 - 126	41	25
3-Nitroaniline	ND	F2	1740	1030	F2	ug/Kg	☼	59	48 - 120	37	19
4,6-Dinitro-2-methylphenol	ND	F2	3470	2170	F2	ug/Kg	☼	62	23 - 149	37	15
4-Bromophenyl phenyl ether	ND	F2	1740	1060	F2	ug/Kg	☼	61	58 - 120	37	15
4-Chloro-3-methylphenol	ND	F2	1740	1070	F2	ug/Kg	☼	62	49 - 125	40	27
4-Chloroaniline	ND	F2	1740	816	F2	ug/Kg	☼	47	38 - 120	40	22
4-Chlorophenyl phenyl ether	ND	F2 F1	1740	1060	F2 F1	ug/Kg	☼	61	63 - 124	38	16
4-Methylphenol	ND	F2	1740	935	F2	ug/Kg	☼	54	50 - 120	35	24

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-185887-6 MSD
Matrix: Solid
Analysis Batch: 586077

Client Sample ID: S-3B 2-12
Prep Type: Total/NA
Prep Batch: 585825

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Nitroaniline	ND	F2	1740	1040	F2	ug/Kg	☼	60	47 - 120	42	24
4-Nitrophenol	ND	F2	3470	2310	F2	ug/Kg	☼	66	31 - 147	40	25
Acenaphthene	ND	F2 F1	1740	1010	F2 F1	ug/Kg	☼	58	60 - 120	37	35
Acenaphthylene	ND	F2	1740	1020	F2	ug/Kg	☼	59	58 - 121	37	18
Acetophenone	ND	F2	1740	873	F2	ug/Kg	☼	50	47 - 120	31	20
Anthracene	ND	F2	1740	1140	F2	ug/Kg	☼	66	62 - 120	36	15
Atrazine	ND	F2	3470	2180	F2	ug/Kg	☼	63	60 - 150	37	20
Benzaldehyde	ND	F2	3470	1600	F2	ug/Kg	☼	46	10 - 150	37	20
Benzo[a]anthracene	47	J F2	1740	1170	F2	ug/Kg	☼	65	65 - 120	35	15
Benzo[a]pyrene	75	J F2 F1	1740	1160	F2 F1	ug/Kg	☼	62	64 - 120	37	15
Benzo[b]fluoranthene	100	J F2	1740	1220	F2	ug/Kg	☼	64	10 - 150	35	15
Benzo[g,h,i]perylene	77	J F2	1740	1300	F2	ug/Kg	☼	70	45 - 145	35	15
Benzo[k]fluoranthene	30	J F2	1740	1080	F2	ug/Kg	☼	60	23 - 150	40	22
Bis(2-chloroethoxy)methane	ND	F2 F1	1740	871	F2 F1	ug/Kg	☼	50	52 - 120	32	17
Bis(2-chloroethyl)ether	ND	F2	1740	813	F2	ug/Kg	☼	47	45 - 120	28	21
Bis(2-ethylhexyl) phthalate	84	J F2	1740	1190	F2	ug/Kg	☼	63	61 - 133	41	15
Butyl benzyl phthalate	ND	F2	1740	1230	F2	ug/Kg	☼	71	61 - 120	37	16
Caprolactam	ND	F2	3470	2290	F2	ug/Kg	☼	66	37 - 133	37	20
Carbazole	ND	F2	1740	1140	F2	ug/Kg	☼	66	59 - 120	37	20
Chrysene	59	J F2 F1	1740	1110	F2 F1	ug/Kg	☼	61	64 - 120	37	15
Dibenz(a,h)anthracene	ND	F2	1740	1230	F2	ug/Kg	☼	71	54 - 132	38	15
Di-n-butyl phthalate	120	J F2 B	1740	1210	F2	ug/Kg	☼	62	58 - 130	41	15
Di-n-octyl phthalate	ND	F2	1740	1250	F2	ug/Kg	☼	72	57 - 133	38	16
Dibenzofuran	ND	F2 F1	1740	1040	F2 F1	ug/Kg	☼	60	62 - 120	36	15
Diethyl phthalate	ND	F2 F1	1740	1110	F2 F1	ug/Kg	☼	64	66 - 120	39	15
Dimethyl phthalate	ND	F2 F1	1740	1040	F2 F1	ug/Kg	☼	60	65 - 124	41	15
Fluoranthene	97	J F2	1740	1220	F2	ug/Kg	☼	65	62 - 120	34	15
Fluorene	ND	F2 F1	1740	1080	F2 F1	ug/Kg	☼	62	63 - 120	35	15
Hexachlorobenzene	ND	F2	1740	1040	F2	ug/Kg	☼	60	60 - 120	39	15
Hexachlorobutadiene	ND		1740	774		ug/Kg	☼	45	45 - 120	27	44
Hexachlorocyclopentadiene	ND		1740	696		ug/Kg	☼	40	31 - 120	33	49
Hexachloroethane	ND		1740	716		ug/Kg	☼	41	21 - 120	33	46
Indeno[1,2,3-cd]pyrene	71	J F2	1740	1250	F2	ug/Kg	☼	68	56 - 134	36	15
Isophorone	ND	F2	1740	970	F2	ug/Kg	☼	56	56 - 120	35	17
N-Nitrosodi-n-propylamine	ND	F2	1740	895	F2	ug/Kg	☼	52	46 - 120	33	31
N-Nitrosodiphenylamine	ND	F2	1740	1080	F2	ug/Kg	☼	62	20 - 128	40	15
Naphthalene	ND	F2	1740	856	F2	ug/Kg	☼	49	46 - 120	31	29
Nitrobenzene	ND	F2	1740	893	F2	ug/Kg	☼	51	49 - 120	30	24
Pentachlorophenol	ND	F2	3470	1940	F2	ug/Kg	☼	56	25 - 136	39	35
Phenanthrene	44	J F2	1740	1150	F2	ug/Kg	☼	63	60 - 122	36	15
Phenol	ND		1740	865		ug/Kg	☼	50	50 - 120	35	35
Pyrene	83	J F2	1740	1230	F2	ug/Kg	☼	66	61 - 133	36	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*50*	*S1-*	*53 - 120*
Phenol-d5 (Surr)	*48*	*S1-*	*54 - 120*
p-Terphenyl-d14 (Surr)	*64*	*S1-*	*79 - 130*
2,4,6-Tribromophenol (Surr)	*58*		*54 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-185887-6 MSD
Matrix: Solid
Analysis Batch: 586077

Client Sample ID: S-3B 2-12
Prep Type: Total/NA
Prep Batch: 585825

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	53	S1-	60 - 120
2-Fluorophenol (Surr)	45	S1-	52 - 120

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-585998/1-A
Matrix: Solid
Analysis Batch: 586175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585998

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.7	0.32	ug/Kg		06/18/21 08:46	06/21/21 09:45	1
4,4'-DDE	ND		1.7	0.35	ug/Kg		06/18/21 08:46	06/21/21 09:45	1
4,4'-DDT	ND		1.7	0.39	ug/Kg		06/18/21 08:46	06/21/21 09:45	1
Aldrin	ND		1.7	0.41	ug/Kg		06/18/21 08:46	06/21/21 09:45	1
alpha-BHC	ND		1.7	0.30	ug/Kg		06/18/21 08:46	06/21/21 09:45	1
cis-Chlordane	ND		1.7	0.83	ug/Kg		06/18/21 08:46	06/21/21 09:45	1
beta-BHC	ND		1.7	0.30	ug/Kg		06/18/21 08:46	06/21/21 09:45	1
delta-BHC	ND		1.7	0.31	ug/Kg		06/18/21 08:46	06/21/21 09:45	1
Dieldrin	ND		1.7	0.40	ug/Kg		06/18/21 08:46	06/21/21 09:45	1
Endosulfan I	ND		1.7	0.32	ug/Kg		06/18/21 08:46	06/21/21 09:45	1
Endosulfan II	ND		1.7	0.30	ug/Kg		06/18/21 08:46	06/21/21 09:45	1
Endosulfan sulfate	ND		1.7	0.31	ug/Kg		06/18/21 08:46	06/21/21 09:45	1
Endrin	ND		1.7	0.33	ug/Kg		06/18/21 08:46	06/21/21 09:45	1
Endrin aldehyde	ND		1.7	0.43	ug/Kg		06/18/21 08:46	06/21/21 09:45	1
Endrin ketone	ND		1.7	0.41	ug/Kg		06/18/21 08:46	06/21/21 09:45	1
gamma-BHC (Lindane)	ND		1.7	0.31	ug/Kg		06/18/21 08:46	06/21/21 09:45	1
trans-Chlordane	ND		1.7	0.53	ug/Kg		06/18/21 08:46	06/21/21 09:45	1
Heptachlor	ND		1.7	0.36	ug/Kg		06/18/21 08:46	06/21/21 09:45	1
Heptachlor epoxide	ND		1.7	0.43	ug/Kg		06/18/21 08:46	06/21/21 09:45	1
Methoxychlor	ND		1.7	0.34	ug/Kg		06/18/21 08:46	06/21/21 09:45	1
Toxaphene	ND		17	9.7	ug/Kg		06/18/21 08:46	06/21/21 09:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	91		45 - 120	06/18/21 08:46	06/21/21 09:45	1
DCB Decachlorobiphenyl	89		45 - 120	06/18/21 08:46	06/21/21 09:45	1
Tetrachloro-m-xylene	60		30 - 124	06/18/21 08:46	06/21/21 09:45	1
Tetrachloro-m-xylene	53		30 - 124	06/18/21 08:46	06/21/21 09:45	1

Lab Sample ID: LCS 480-585998/2-A
Matrix: Solid
Analysis Batch: 586175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585998

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.5	14.7		ug/Kg		89	56 - 120
4,4'-DDE	16.5	10.5		ug/Kg		63	44 - 120
4,4'-DDT	16.5	14.4		ug/Kg		87	38 - 120
Aldrin	16.5	11.0		ug/Kg		66	38 - 120
alpha-BHC	16.5	11.5		ug/Kg		69	39 - 120

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-585998/2-A
Matrix: Solid
Analysis Batch: 586175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585998

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-Chlordane	16.5	9.79		ug/Kg		59	47 - 120
beta-BHC	16.5	14.1		ug/Kg		85	40 - 120
delta-BHC	16.5	13.7		ug/Kg		83	45 - 120
Dieldrin	16.5	13.8		ug/Kg		84	58 - 120
Endosulfan I	16.5	11.9		ug/Kg		72	49 - 120
Endosulfan II	16.5	15.1		ug/Kg		91	55 - 120
Endosulfan sulfate	16.5	18.0		ug/Kg		109	49 - 124
Endrin	16.5	14.6		ug/Kg		88	58 - 120
Endrin aldehyde	16.5	13.4		ug/Kg		81	37 - 121
Endrin ketone	16.5	17.1		ug/Kg		104	46 - 123
gamma-BHC (Lindane)	16.5	12.9		ug/Kg		78	50 - 120
trans-Chlordane	16.5	11.7		ug/Kg		71	48 - 120
Heptachlor	16.5	12.8		ug/Kg		77	50 - 120
Heptachlor epoxide	16.5	12.5		ug/Kg		75	50 - 120
Methoxychlor	16.5	18.4		ug/Kg		112	58 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*99*		*45 - 120*
DCB Decachlorobiphenyl	*90*		*45 - 120*
Tetrachloro-m-xylene	*71*		*30 - 124*
Tetrachloro-m-xylene	*62*		*30 - 124*

Lab Sample ID: 480-185887-6 MS
Matrix: Solid
Analysis Batch: 586175

Client Sample ID: S-3B 2-12
Prep Type: Total/NA
Prep Batch: 585998

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		17.3	15.3	J	ug/Kg	☼	88	37 - 126
4,4'-DDE	45	F1	17.3	78.5	F1	ug/Kg	☼	192	34 - 120
4,4'-DDT	94		17.3	146	4	ug/Kg	☼	296	43 - 123
Aldrin	ND		17.3	10.9	J	ug/Kg	☼	63	37 - 125
alpha-BHC	ND		17.3	13.4	J	ug/Kg	☼	77	39 - 120
cis-Chlordane	ND		17.3	12.1	J	ug/Kg	☼	70	35 - 120
beta-BHC	ND		17.3	14.5	J	ug/Kg	☼	84	36 - 120
delta-BHC	ND		17.3	14.1	J	ug/Kg	☼	81	34 - 120
Dieldrin	ND		17.3	12.0	J	ug/Kg	☼	69	45 - 120
Endosulfan I	ND		17.3	9.23	J	ug/Kg	☼	53	39 - 120
Endosulfan II	ND		17.3	12.5	J	ug/Kg	☼	72	34 - 126
Endosulfan sulfate	ND		17.3	11.0	J	ug/Kg	☼	63	27 - 130
Endrin	ND		17.3	12.2	J	ug/Kg	☼	70	47 - 121
Endrin aldehyde	ND		17.3	10.7	J	ug/Kg	☼	62	33 - 123
Endrin ketone	ND		17.3	17.2		ug/Kg	☼	99	43 - 126
gamma-BHC (Lindane)	ND		17.3	13.9	J	ug/Kg	☼	80	50 - 120
trans-Chlordane	ND		17.3	11.3	J	ug/Kg	☼	65	31 - 120
Heptachlor	ND		17.3	10.9	J	ug/Kg	☼	63	42 - 120
Heptachlor epoxide	ND		17.3	10.5	J	ug/Kg	☼	60	40 - 120
Methoxychlor	3.7	J	17.3	19.0		ug/Kg	☼	88	44 - 150

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-185887-6 MS
Matrix: Solid
Analysis Batch: 586175

Client Sample ID: S-3B 2-12
Prep Type: Total/NA
Prep Batch: 585998

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	143	S1+	45 - 120
DCB Decachlorobiphenyl	70		45 - 120
Tetrachloro-m-xylene	51		30 - 124
Tetrachloro-m-xylene	58		30 - 124

Lab Sample ID: 480-185887-6 MSD
Matrix: Solid
Analysis Batch: 586175

Client Sample ID: S-3B 2-12
Prep Type: Total/NA
Prep Batch: 585998

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		17.5	16.2	J	ug/Kg	☼	93	37 - 126	6	21
4,4'-DDE	45	F1	17.5	72.8	F1	ug/Kg	☼	158	34 - 120	8	18
4,4'-DDT	94		17.5	140	4	ug/Kg	☼	262	43 - 123	4	25
Aldrin	ND		17.5	10.6	J	ug/Kg	☼	61	37 - 125	2	12
alpha-BHC	ND		17.5	12.9	J	ug/Kg	☼	74	39 - 120	4	15
cis-Chlordane	ND		17.5	11.9	J	ug/Kg	☼	68	35 - 120	1	23
beta-BHC	ND		17.5	14.7	J	ug/Kg	☼	84	36 - 120	1	19
delta-BHC	ND		17.5	13.8	J	ug/Kg	☼	79	34 - 120	2	14
Dieldrin	ND		17.5	11.8	J	ug/Kg	☼	67	45 - 120	2	12
Endosulfan I	ND		17.5	9.12	J	ug/Kg	☼	52	39 - 120	1	18
Endosulfan II	ND		17.5	13.7	J	ug/Kg	☼	79	34 - 126	10	26
Endosulfan sulfate	ND		17.5	11.1	J	ug/Kg	☼	64	27 - 130	1	35
Endrin	ND		17.5	12.9	J	ug/Kg	☼	74	47 - 121	6	20
Endrin aldehyde	ND		17.5	10.3	J	ug/Kg	☼	59	33 - 123	4	47
Endrin ketone	ND		17.5	18.2		ug/Kg	☼	104	43 - 126	5	37
gamma-BHC (Lindane)	ND		17.5	13.5	J	ug/Kg	☼	78	50 - 120	2	12
trans-Chlordane	ND		17.5	11.9	J	ug/Kg	☼	68	31 - 120	5	15
Heptachlor	ND		17.5	10.9	J	ug/Kg	☼	63	42 - 120	0	22
Heptachlor epoxide	ND		17.5	10.7	J	ug/Kg	☼	61	40 - 120	2	15
Methoxychlor	3.7	J	17.5	19.4		ug/Kg	☼	90	44 - 150	2	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	113		45 - 120
DCB Decachlorobiphenyl	77		45 - 120
Tetrachloro-m-xylene	0	S1-	30 - 124
Tetrachloro-m-xylene	0	S1-	30 - 124

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-585184/1-A
Matrix: Solid
Analysis Batch: 585304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585184

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.046	mg/Kg		06/14/21 07:19	06/14/21 19:06	1
PCB-1221	ND		0.23	0.046	mg/Kg		06/14/21 07:19	06/14/21 19:06	1
PCB-1232	ND		0.23	0.046	mg/Kg		06/14/21 07:19	06/14/21 19:06	1
PCB-1242	ND		0.23	0.046	mg/Kg		06/14/21 07:19	06/14/21 19:06	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 480-585184/1-A
Matrix: Solid
Analysis Batch: 585304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585184

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	ND		0.23	0.046	mg/Kg		06/14/21 07:19	06/14/21 19:06	1
PCB-1254	ND		0.23	0.11	mg/Kg		06/14/21 07:19	06/14/21 19:06	1
PCB-1260	ND		0.23	0.11	mg/Kg		06/14/21 07:19	06/14/21 19:06	1
PCB-1262	ND		0.23	0.11	mg/Kg		06/14/21 07:19	06/14/21 19:06	1
PCB-1268	ND		0.23	0.11	mg/Kg		06/14/21 07:19	06/14/21 19:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*60 - 154*	*06/14/21 07:19*	*06/14/21 19:06*	*1*
Tetrachloro-m-xylene	*88*		*60 - 154*	*06/14/21 07:19*	*06/14/21 19:06*	*1*
DCB Decachlorobiphenyl	*87*		*65 - 174*	*06/14/21 07:19*	*06/14/21 19:06*	*1*
DCB Decachlorobiphenyl	*83*		*65 - 174*	*06/14/21 07:19*	*06/14/21 19:06*	*1*

Lab Sample ID: LCS 480-585184/2-A
Matrix: Solid
Analysis Batch: 585304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2.25	2.01		mg/Kg		89	51 - 185
PCB-1260	2.25	2.13		mg/Kg		95	61 - 184

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*107*		*60 - 154*
Tetrachloro-m-xylene	*110*		*60 - 154*
DCB Decachlorobiphenyl	*102*		*65 - 174*
DCB Decachlorobiphenyl	*97*		*65 - 174*

Lab Sample ID: MB 480-585515/1-A
Matrix: Solid
Analysis Batch: 585694

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585515

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.042	mg/Kg		06/15/21 15:20	06/16/21 15:57	1
PCB-1221	ND		0.22	0.042	mg/Kg		06/15/21 15:20	06/16/21 15:57	1
PCB-1232	ND		0.22	0.042	mg/Kg		06/15/21 15:20	06/16/21 15:57	1
PCB-1242	ND		0.22	0.042	mg/Kg		06/15/21 15:20	06/16/21 15:57	1
PCB-1248	ND		0.22	0.042	mg/Kg		06/15/21 15:20	06/16/21 15:57	1
PCB-1254	ND		0.22	0.10	mg/Kg		06/15/21 15:20	06/16/21 15:57	1
PCB-1260	ND		0.22	0.10	mg/Kg		06/15/21 15:20	06/16/21 15:57	1
PCB-1262	ND		0.22	0.10	mg/Kg		06/15/21 15:20	06/16/21 15:57	1
PCB-1268	ND		0.22	0.10	mg/Kg		06/15/21 15:20	06/16/21 15:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*60 - 154*	*06/15/21 15:20*	*06/16/21 15:57*	*1*
Tetrachloro-m-xylene	*110*		*60 - 154*	*06/15/21 15:20*	*06/16/21 15:57*	*1*
DCB Decachlorobiphenyl	*108*		*65 - 174*	*06/15/21 15:20*	*06/16/21 15:57*	*1*
DCB Decachlorobiphenyl	*106*		*65 - 174*	*06/15/21 15:20*	*06/16/21 15:57*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-585515/2-A
Matrix: Solid
Analysis Batch: 585694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585515

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			2.46	3.10		mg/Kg		126	51 - 185		
PCB-1260			2.46	3.19		mg/Kg		130	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*124*		*60 - 154*
Tetrachloro-m-xylene	*137*		*60 - 154*
DCB Decachlorobiphenyl	*136*		*65 - 174*
DCB Decachlorobiphenyl	*132*		*65 - 174*

Lab Sample ID: 480-185887-6 MS
Matrix: Solid
Analysis Batch: 585694

Client Sample ID: S-3B 2-12
Prep Type: Total/NA
Prep Batch: 585515

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		1.94	1.77		mg/Kg	☼	92	50 - 177		
PCB-1260	ND		1.94	1.80		mg/Kg	☼	93	33 - 200		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*105*		*60 - 154*
Tetrachloro-m-xylene	*118*		*60 - 154*
DCB Decachlorobiphenyl	*119*		*65 - 174*
DCB Decachlorobiphenyl	*115*		*65 - 174*

Lab Sample ID: 480-185887-6 MSD
Matrix: Solid
Analysis Batch: 585694

Client Sample ID: S-3B 2-12
Prep Type: Total/NA
Prep Batch: 585515

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		2.57	2.48		mg/Kg	☼	96	50 - 177	33	50
PCB-1260	ND		2.57	2.51		mg/Kg	☼	98	33 - 200	33	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*104*		*60 - 154*
Tetrachloro-m-xylene	*117*		*60 - 154*
DCB Decachlorobiphenyl	*119*		*65 - 174*
DCB Decachlorobiphenyl	*117*		*65 - 174*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-585353/1-A
Matrix: Solid
Analysis Batch: 586524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585353

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		16	5.2	ug/Kg		06/15/21 06:53	06/23/21 13:13	1
2,4-D	ND		16	10	ug/Kg		06/15/21 06:53	06/23/21 13:13	1
Silvex (2,4,5-TP)	ND		16	5.9	ug/Kg		06/15/21 06:53	06/23/21 13:13	1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: MB 480-585353/1-A
Matrix: Solid
Analysis Batch: 586524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585353

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	74		28 - 129	06/15/21 06:53	06/23/21 13:13	1
2,4-Dichlorophenylacetic acid	63		28 - 129	06/15/21 06:53	06/23/21 13:13	1

Lab Sample ID: LCS 480-585353/2-A
Matrix: Solid
Analysis Batch: 586524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585353

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	65.8	52.8		ug/Kg		80	41 - 120
2,4-D	65.8	50.8		ug/Kg		77	40 - 120
Silvex (2,4,5-TP)	65.8	53.9		ug/Kg		82	39 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	93		28 - 129
2,4-Dichlorophenylacetic acid	72		28 - 129

Lab Sample ID: 480-185887-6 MS
Matrix: Solid
Analysis Batch: 586524

Client Sample ID: S-3B 2-12
Prep Type: Total/NA
Prep Batch: 585353

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	ND		69.7	53.9		ug/Kg	☼	77	29 - 123
2,4-D	ND		69.7	60.4		ug/Kg	☼	87	32 - 115
Silvex (2,4,5-TP)	ND		69.7	54.3		ug/Kg	☼	78	22 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4-Dichlorophenylacetic acid	92		28 - 129
2,4-Dichlorophenylacetic acid	70		28 - 129

Lab Sample ID: 480-185887-6 MSD
Matrix: Solid
Analysis Batch: 586524

Client Sample ID: S-3B 2-12
Prep Type: Total/NA
Prep Batch: 585353

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	ND		70.8	53.6		ug/Kg	☼	76	29 - 123	1	50
2,4-D	ND		70.8	47.2		ug/Kg	☼	67	32 - 115	24	50
Silvex (2,4,5-TP)	ND		70.8	52.9		ug/Kg	☼	75	22 - 140	2	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	67		28 - 129
2,4-Dichlorophenylacetic acid	74		28 - 129

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-585285/1-A
Matrix: Solid
Analysis Batch: 585781

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585285

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11.41		9.6	4.2	mg/Kg		06/15/21 07:46	06/16/21 15:54	1
Antimony	ND		14.4	0.38	mg/Kg		06/15/21 07:46	06/16/21 15:54	1
Arsenic	ND		1.9	0.38	mg/Kg		06/15/21 07:46	06/16/21 15:54	1
Barium	ND		0.48	0.11	mg/Kg		06/15/21 07:46	06/16/21 15:54	1
Beryllium	ND		0.19	0.027	mg/Kg		06/15/21 07:46	06/16/21 15:54	1
Cadmium	ND		0.19	0.029	mg/Kg		06/15/21 07:46	06/16/21 15:54	1
Calcium	5.27	J	48.1	3.2	mg/Kg		06/15/21 07:46	06/16/21 15:54	1
Chromium	0.516		0.48	0.19	mg/Kg		06/15/21 07:46	06/16/21 15:54	1
Cobalt	ND		0.48	0.048	mg/Kg		06/15/21 07:46	06/16/21 15:54	1
Copper	ND		0.96	0.20	mg/Kg		06/15/21 07:46	06/16/21 15:54	1
Iron	6.62	J	9.6	3.4	mg/Kg		06/15/21 07:46	06/16/21 15:54	1
Lead	ND		0.96	0.23	mg/Kg		06/15/21 07:46	06/16/21 15:54	1
Magnesium	1.34	J	19.2	0.89	mg/Kg		06/15/21 07:46	06/16/21 15:54	1
Manganese	8.57		0.19	0.031	mg/Kg		06/15/21 07:46	06/16/21 15:54	1
Nickel	ND		4.8	0.22	mg/Kg		06/15/21 07:46	06/16/21 15:54	1
Potassium	ND		28.8	19.2	mg/Kg		06/15/21 07:46	06/16/21 15:54	1
Selenium	ND		3.8	0.38	mg/Kg		06/15/21 07:46	06/16/21 15:54	1
Silver	ND		0.58	0.19	mg/Kg		06/15/21 07:46	06/16/21 15:54	1
Sodium	ND		135	12.5	mg/Kg		06/15/21 07:46	06/16/21 15:54	1
Thallium	ND		5.8	0.29	mg/Kg		06/15/21 07:46	06/16/21 15:54	1
Vanadium	ND		0.48	0.11	mg/Kg		06/15/21 07:46	06/16/21 15:54	1
Zinc	ND		1.9	0.62	mg/Kg		06/15/21 07:46	06/16/21 15:54	1

Lab Sample ID: LCSSRM 480-585285/2-A
Matrix: Solid
Analysis Batch: 585781

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585285

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8190	8433		mg/Kg		103.0	50.1 - 150.2
Antimony	110	92.56		mg/Kg		84.1	22.2 - 254.5
Arsenic	162	136.9		mg/Kg		84.5	70.4 - 130.2
Barium	138	143.1		mg/Kg		103.7	74.6 - 124.6
Beryllium	157	178.4		mg/Kg		113.7	75.2 - 125.5
Cadmium	135	144.3		mg/Kg		106.9	74.8 - 124.4
Calcium	4790	4606		mg/Kg		96.2	72.7 - 127.3
Chromium	117	119.6		mg/Kg		102.2	70.1 - 129.9
Cobalt	92.6	108.6		mg/Kg		117.2	75.1 - 125.3
Copper	143	130.0		mg/Kg		90.9	74.8 - 124.5
Iron	15100	11050		mg/Kg		73.2	37.2 - 162.9
Lead	77.6	69.64		mg/Kg		89.7	68.8 - 131.4

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-585285/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 585781
Prep Batch: 585285

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	2320	2131		mg/Kg		91.8	62.1 - 137.9
Manganese	319	307.7		mg/Kg		96.5	74.9 - 125.1
Nickel	79.9	94.66		mg/Kg		118.5	70.0 - 130.2
Potassium	2050	2036		mg/Kg		99.3	59.5 - 141.0
Selenium	172	164.7		mg/Kg		95.7	68.0 - 132.6
Silver	24.7	20.06		mg/Kg		81.2	67.2 - 133.2
Sodium	137	173.2		mg/Kg		126.4	35.8 - 164.2
Thallium	88.0	91.87		mg/Kg		104.4	66.0 - 134.1
Vanadium	99.9	94.95		mg/Kg		95.0	67.4 - 132.1
Zinc	312	291.9		mg/Kg		93.6	69.9 - 129.8

Lab Sample ID: 480-185887-6 MS
Client Sample ID: S-3B 2-12
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 585781
Prep Batch: 585285

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5250	B F1	2200	10380	F1	mg/Kg	☼	233	75 - 125
Antimony	ND		44.0	37.85		mg/Kg	☼	86	75 - 125
Arsenic	4.0		44.0	46.41		mg/Kg	☼	96	75 - 125
Barium	32.0		44.0	82.72		mg/Kg	☼	115	75 - 125
Beryllium	0.21	J	44.0	42.21		mg/Kg	☼	95	75 - 125
Cadmium	0.35		44.0	42.01		mg/Kg	☼	95	75 - 125
Calcium	15300	B	2200	18880	4	mg/Kg	☼	165	75 - 125
Chromium	6.8	B	44.0	48.83		mg/Kg	☼	96	75 - 125
Cobalt	2.9		44.0	47.80		mg/Kg	☼	102	75 - 125
Copper	9.5		44.0	51.75		mg/Kg	☼	96	75 - 125
Iron	12300	B F2	2200	10870	4	mg/Kg	☼	-65	75 - 125
Lead	61.0	F1	44.0	85.30	F1	mg/Kg	☼	55	75 - 125
Magnesium	8560	B F1	2200	9402	F1	mg/Kg	☼	38	75 - 125
Manganese	181	B	44.0	363.1	4	mg/Kg	☼	413	75 - 125
Nickel	7.7		44.0	52.91		mg/Kg	☼	103	75 - 125
Potassium	873	F1	2200	4241	F1	mg/Kg	☼	153	75 - 125
Selenium	ND		44.0	42.02		mg/Kg	☼	95	75 - 125
Silver	2.6		11.0	12.12		mg/Kg	☼	86	75 - 125
Sodium	332		2200	2589		mg/Kg	☼	102	75 - 125
Thallium	ND		44.0	44.37		mg/Kg	☼	101	75 - 125
Vanadium	10.6		44.0	55.84		mg/Kg	☼	103	75 - 125
Zinc	78.0	F1 F2	44.0	97.36	F1	mg/Kg	☼	44	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-185887-6 MSD
Matrix: Solid
Analysis Batch: 585781

Client Sample ID: S-3B 2-12
Prep Type: Total/NA
Prep Batch: 585285

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	5250	B F1	2160	10760	F1	mg/Kg	☼	255	75 - 125	4	20
Antimony	ND		43.2	38.39		mg/Kg	☼	89	75 - 125	1	20
Arsenic	4.0		43.2	45.58		mg/Kg	☼	96	75 - 125	2	20
Barium	32.0		43.2	79.41		mg/Kg	☼	110	75 - 125	4	20
Beryllium	0.21	J	43.2	40.73		mg/Kg	☼	94	75 - 125	4	20
Cadmium	0.35		43.2	42.04		mg/Kg	☼	96	75 - 125	0	20
Calcium	15300	B	2160	15390	4	mg/Kg	☼	6	75 - 125	20	20
Chromium	6.8	B	43.2	49.86		mg/Kg	☼	100	75 - 125	2	20
Cobalt	2.9		43.2	46.41		mg/Kg	☼	101	75 - 125	3	20
Copper	9.5		43.2	55.14		mg/Kg	☼	106	75 - 125	6	20
Iron	12300	B F2	2160	14820	4 F2	mg/Kg	☼	117	75 - 125	31	20
Lead	61.0	F1	43.2	89.02	F1	mg/Kg	☼	65	75 - 125	4	20
Magnesium	8560	B F1	2160	8661	F1	mg/Kg	☼	5	75 - 125	8	20
Manganese	181	B	43.2	342.7	4	mg/Kg	☼	373	75 - 125	6	20
Nickel	7.7		43.2	53.90		mg/Kg	☼	107	75 - 125	2	20
Potassium	873	F1	2160	4005	F1	mg/Kg	☼	145	75 - 125	6	20
Selenium	ND		43.2	41.73		mg/Kg	☼	97	75 - 125	1	20
Silver	2.6		10.8	11.52		mg/Kg	☼	82	75 - 125	5	20
Sodium	332		2170	2494		mg/Kg	☼	100	75 - 125	4	20
Thallium	ND		43.2	43.09		mg/Kg	☼	100	75 - 125	3	20
Vanadium	10.6		43.2	56.66		mg/Kg	☼	107	75 - 125	1	20
Zinc	78.0	F1 F2	43.2	359.4	F1 F2	mg/Kg	☼	651	75 - 125	115	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-585929/1-A
Matrix: Solid
Analysis Batch: 586101

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585929

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0083	mg/Kg		06/18/21 13:15	06/18/21 14:30	1

Lab Sample ID: LCSSRM 480-585929/2-A ^10
Matrix: Solid
Analysis Batch: 586101

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585929

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	27.2	22.36		mg/Kg		82.2	59.9 - 140.1

Lab Sample ID: MB 480-585930/1-A
Matrix: Solid
Analysis Batch: 586101

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585930

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.019	0.0075	mg/Kg		06/18/21 13:15	06/18/21 15:08	1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCSSRM 480-585930/2-A ^10
Matrix: Solid
Analysis Batch: 586101

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585930

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			27.2	21.88		mg/Kg		80.4	59.9 - 140.1		

Lab Sample ID: 480-185887-6 MS
Matrix: Solid
Analysis Batch: 586101

Client Sample ID: S-3B 2-12
Prep Type: Total/NA
Prep Batch: 585930

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.035	F2	0.362	0.391		mg/Kg	☼	98	80 - 120		

Lab Sample ID: 480-185887-6 MSD
Matrix: Solid
Analysis Batch: 586101

Client Sample ID: S-3B 2-12
Prep Type: Total/NA
Prep Batch: 585930

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.035	F2	0.293	0.318	F2	mg/Kg	☼	96	80 - 120	21	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-585471/1-A
Matrix: Solid
Analysis Batch: 585554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585471

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.93	0.45	mg/Kg		06/15/21 12:49	06/15/21 19:00	1

Lab Sample ID: LCSSRM 480-585471/2-A
Matrix: Solid
Analysis Batch: 585554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585471

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			23.1	11.16		mg/Kg		48.3	17.0 - 162.8		

Lab Sample ID: 480-185887-6 MS
Matrix: Solid
Analysis Batch: 585554

Client Sample ID: S-3B 2-12
Prep Type: Total/NA
Prep Batch: 585471

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	ND	F1	1.24	ND	F1	mg/Kg	☼	0	85 - 115		

Lab Sample ID: 480-185887-6 MSD
Matrix: Solid
Analysis Batch: 585554

Client Sample ID: S-3B 2-12
Prep Type: Total/NA
Prep Batch: 585471

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	ND	F1	1.23	0.515	J F1	mg/Kg	☼	42	85 - 115	NC	15

QC Association Summary

Client: New York State D.E.C.
Job ID: 480-185887-1
Project/Site: Former Raeco Products #828107

GC/MS VOA

Analysis Batch: 585176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-1	S-1A 0-2	Total/NA	Solid	8260C	585182
480-185887-2	S-1B 2-12	Total/NA	Solid	8260C	585182
480-185887-3	S-2A 0-2	Total/NA	Solid	8260C	585182
480-185887-5	S-3A 0-2	Total/NA	Solid	8260C	585182
480-185887-6	S-3B 2-12	Total/NA	Solid	8260C	585182
MB 480-585182/2-A	Method Blank	Total/NA	Solid	8260C	585182
LCS 480-585182/1-A	Lab Control Sample	Total/NA	Solid	8260C	585182
480-185887-6 MS	S-3B 2-12	Total/NA	Solid	8260C	585182
480-185887-6 MSD	S-3B 2-12	Total/NA	Solid	8260C	585182

Prep Batch: 585182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-1	S-1A 0-2	Total/NA	Solid	5035A_L	
480-185887-2	S-1B 2-12	Total/NA	Solid	5035A_L	
480-185887-3	S-2A 0-2	Total/NA	Solid	5035A_L	
480-185887-5	S-3A 0-2	Total/NA	Solid	5035A_L	
480-185887-6	S-3B 2-12	Total/NA	Solid	5035A_L	
MB 480-585182/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-585182/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-185887-6 MS	S-3B 2-12	Total/NA	Solid	5035A_L	
480-185887-6 MSD	S-3B 2-12	Total/NA	Solid	5035A_L	

Analysis Batch: 585327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-4	S-2B 2-12	Total/NA	Solid	8260C	585343
MB 480-585343/2-A	Method Blank	Total/NA	Solid	8260C	585343
LCS 480-585343/1-A	Lab Control Sample	Total/NA	Solid	8260C	585343

Prep Batch: 585343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-4	S-2B 2-12	Total/NA	Solid	5035A_L	
MB 480-585343/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-585343/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

GC/MS Semi VOA

Prep Batch: 585825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-1	S-1A 0-2	Total/NA	Solid	3550C	
480-185887-2	S-1B 2-12	Total/NA	Solid	3550C	
480-185887-3	S-2A 0-2	Total/NA	Solid	3550C	
480-185887-4	S-2B 2-12	Total/NA	Solid	3550C	
480-185887-5	S-3A 0-2	Total/NA	Solid	3550C	
480-185887-6	S-3B 2-12	Total/NA	Solid	3550C	
MB 480-585825/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-585825/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-185887-6 MS	S-3B 2-12	Total/NA	Solid	3550C	
480-185887-6 MSD	S-3B 2-12	Total/NA	Solid	3550C	

QC Association Summary

Client: New York State D.E.C.
Project/Site: Former Raeco Products #828107

Job ID: 480-185887-1

GC/MS Semi VOA

Analysis Batch: 586077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-1	S-1A 0-2	Total/NA	Solid	8270D	585825
480-185887-2	S-1B 2-12	Total/NA	Solid	8270D	585825
480-185887-3	S-2A 0-2	Total/NA	Solid	8270D	585825
480-185887-4	S-2B 2-12	Total/NA	Solid	8270D	585825
480-185887-5	S-3A 0-2	Total/NA	Solid	8270D	585825
480-185887-6	S-3B 2-12	Total/NA	Solid	8270D	585825
MB 480-585825/1-A	Method Blank	Total/NA	Solid	8270D	585825
LCS 480-585825/2-A	Lab Control Sample	Total/NA	Solid	8270D	585825
480-185887-6 MS	S-3B 2-12	Total/NA	Solid	8270D	585825
480-185887-6 MSD	S-3B 2-12	Total/NA	Solid	8270D	585825

GC Semi VOA

Prep Batch: 585184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-1	S-1A 0-2	Total/NA	Solid	3550C	
480-185887-2	S-1B 2-12	Total/NA	Solid	3550C	
MB 480-585184/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-585184/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 585304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-585184/1-A	Method Blank	Total/NA	Solid	8082A	585184
LCS 480-585184/2-A	Lab Control Sample	Total/NA	Solid	8082A	585184

Prep Batch: 585353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-1	S-1A 0-2	Total/NA	Solid	8151A	
480-185887-2	S-1B 2-12	Total/NA	Solid	8151A	
480-185887-3	S-2A 0-2	Total/NA	Solid	8151A	
480-185887-4	S-2B 2-12	Total/NA	Solid	8151A	
480-185887-5	S-3A 0-2	Total/NA	Solid	8151A	
480-185887-6	S-3B 2-12	Total/NA	Solid	8151A	
MB 480-585353/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-585353/2-A	Lab Control Sample	Total/NA	Solid	8151A	
480-185887-6 MS	S-3B 2-12	Total/NA	Solid	8151A	
480-185887-6 MSD	S-3B 2-12	Total/NA	Solid	8151A	

Analysis Batch: 585460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-1	S-1A 0-2	Total/NA	Solid	8082A	585184
480-185887-2	S-1B 2-12	Total/NA	Solid	8082A	585184

Prep Batch: 585515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-3	S-2A 0-2	Total/NA	Solid	3550C	
480-185887-4	S-2B 2-12	Total/NA	Solid	3550C	
480-185887-5	S-3A 0-2	Total/NA	Solid	3550C	
480-185887-6	S-3B 2-12	Total/NA	Solid	3550C	
MB 480-585515/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-585515/2-A	Lab Control Sample	Total/NA	Solid	3550C	

GC Semi VOA (Continued)

Prep Batch: 585515 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-6 MS	S-3B 2-12	Total/NA	Solid	3550C	
480-185887-6 MSD	S-3B 2-12	Total/NA	Solid	3550C	

Analysis Batch: 585694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-3	S-2A 0-2	Total/NA	Solid	8082A	585515
480-185887-4	S-2B 2-12	Total/NA	Solid	8082A	585515
480-185887-5	S-3A 0-2	Total/NA	Solid	8082A	585515
480-185887-6	S-3B 2-12	Total/NA	Solid	8082A	585515
MB 480-585515/1-A	Method Blank	Total/NA	Solid	8082A	585515
LCS 480-585515/2-A	Lab Control Sample	Total/NA	Solid	8082A	585515
480-185887-6 MS	S-3B 2-12	Total/NA	Solid	8082A	585515
480-185887-6 MSD	S-3B 2-12	Total/NA	Solid	8082A	585515

Prep Batch: 585998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-1	S-1A 0-2	Total/NA	Solid	3550C	
480-185887-2	S-1B 2-12	Total/NA	Solid	3550C	
480-185887-3	S-2A 0-2	Total/NA	Solid	3550C	
480-185887-4	S-2B 2-12	Total/NA	Solid	3550C	
480-185887-5	S-3A 0-2	Total/NA	Solid	3550C	
480-185887-6	S-3B 2-12	Total/NA	Solid	3550C	
MB 480-585998/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-585998/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-185887-6 MS	S-3B 2-12	Total/NA	Solid	3550C	
480-185887-6 MSD	S-3B 2-12	Total/NA	Solid	3550C	

Analysis Batch: 586175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-1	S-1A 0-2	Total/NA	Solid	8081B	585998
480-185887-2	S-1B 2-12	Total/NA	Solid	8081B	585998
480-185887-3	S-2A 0-2	Total/NA	Solid	8081B	585998
480-185887-4	S-2B 2-12	Total/NA	Solid	8081B	585998
480-185887-5	S-3A 0-2	Total/NA	Solid	8081B	585998
480-185887-6	S-3B 2-12	Total/NA	Solid	8081B	585998
MB 480-585998/1-A	Method Blank	Total/NA	Solid	8081B	585998
LCS 480-585998/2-A	Lab Control Sample	Total/NA	Solid	8081B	585998
480-185887-6 MS	S-3B 2-12	Total/NA	Solid	8081B	585998
480-185887-6 MSD	S-3B 2-12	Total/NA	Solid	8081B	585998

Analysis Batch: 586524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-585353/1-A	Method Blank	Total/NA	Solid	8151A	585353
LCS 480-585353/2-A	Lab Control Sample	Total/NA	Solid	8151A	585353
480-185887-6 MS	S-3B 2-12	Total/NA	Solid	8151A	585353
480-185887-6 MSD	S-3B 2-12	Total/NA	Solid	8151A	585353

Analysis Batch: 586729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-1	S-1A 0-2	Total/NA	Solid	8151A	585353
480-185887-2	S-1B 2-12	Total/NA	Solid	8151A	585353

GC Semi VOA (Continued)

Analysis Batch: 586729 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-3	S-2A 0-2	Total/NA	Solid	8151A	585353
480-185887-4	S-2B 2-12	Total/NA	Solid	8151A	585353
480-185887-5	S-3A 0-2	Total/NA	Solid	8151A	585353
480-185887-6	S-3B 2-12	Total/NA	Solid	8151A	585353

Metals

Prep Batch: 585285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-1	S-1A 0-2	Total/NA	Solid	3050B	
480-185887-2	S-1B 2-12	Total/NA	Solid	3050B	
480-185887-3	S-2A 0-2	Total/NA	Solid	3050B	
480-185887-4	S-2B 2-12	Total/NA	Solid	3050B	
480-185887-5	S-3A 0-2	Total/NA	Solid	3050B	
480-185887-6	S-3B 2-12	Total/NA	Solid	3050B	
MB 480-585285/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-585285/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-185887-6 MS	S-3B 2-12	Total/NA	Solid	3050B	
480-185887-6 MSD	S-3B 2-12	Total/NA	Solid	3050B	

Analysis Batch: 585781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-1	S-1A 0-2	Total/NA	Solid	6010C	585285
480-185887-2	S-1B 2-12	Total/NA	Solid	6010C	585285
480-185887-3	S-2A 0-2	Total/NA	Solid	6010C	585285
480-185887-4	S-2B 2-12	Total/NA	Solid	6010C	585285
480-185887-5	S-3A 0-2	Total/NA	Solid	6010C	585285
480-185887-6	S-3B 2-12	Total/NA	Solid	6010C	585285
MB 480-585285/1-A	Method Blank	Total/NA	Solid	6010C	585285
LCSSRM 480-585285/2-A	Lab Control Sample	Total/NA	Solid	6010C	585285
480-185887-6 MS	S-3B 2-12	Total/NA	Solid	6010C	585285
480-185887-6 MSD	S-3B 2-12	Total/NA	Solid	6010C	585285

Prep Batch: 585929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-1	S-1A 0-2	Total/NA	Solid	7471B	
480-185887-2	S-1B 2-12	Total/NA	Solid	7471B	
480-185887-3	S-2A 0-2	Total/NA	Solid	7471B	
480-185887-4	S-2B 2-12	Total/NA	Solid	7471B	
480-185887-5	S-3A 0-2	Total/NA	Solid	7471B	
MB 480-585929/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-585929/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 585930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-6	S-3B 2-12	Total/NA	Solid	7471B	
MB 480-585930/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-585930/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-185887-6 MS	S-3B 2-12	Total/NA	Solid	7471B	
480-185887-6 MSD	S-3B 2-12	Total/NA	Solid	7471B	

Metals

Analysis Batch: 586019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-3	S-2A 0-2	Total/NA	Solid	6010C	585285
480-185887-4	S-2B 2-12	Total/NA	Solid	6010C	585285

Analysis Batch: 586101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-1	S-1A 0-2	Total/NA	Solid	7471B	585929
480-185887-2	S-1B 2-12	Total/NA	Solid	7471B	585929
480-185887-3	S-2A 0-2	Total/NA	Solid	7471B	585929
480-185887-4	S-2B 2-12	Total/NA	Solid	7471B	585929
480-185887-5	S-3A 0-2	Total/NA	Solid	7471B	585929
480-185887-6	S-3B 2-12	Total/NA	Solid	7471B	585930
MB 480-585929/1-A	Method Blank	Total/NA	Solid	7471B	585929
MB 480-585930/1-A	Method Blank	Total/NA	Solid	7471B	585930
LCSSRM 480-585929/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	585929
LCSSRM 480-585930/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	585930
480-185887-6 MS	S-3B 2-12	Total/NA	Solid	7471B	585930
480-185887-6 MSD	S-3B 2-12	Total/NA	Solid	7471B	585930

General Chemistry

Analysis Batch: 585110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-1	S-1A 0-2	Total/NA	Solid	Moisture	
480-185887-2	S-1B 2-12	Total/NA	Solid	Moisture	
480-185887-3	S-2A 0-2	Total/NA	Solid	Moisture	
480-185887-4	S-2B 2-12	Total/NA	Solid	Moisture	
480-185887-5	S-3A 0-2	Total/NA	Solid	Moisture	

Analysis Batch: 585325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-6	S-3B 2-12	Total/NA	Solid	Moisture	
480-185887-6 MS	S-3B 2-12	Total/NA	Solid	Moisture	
480-185887-6 MSD	S-3B 2-12	Total/NA	Solid	Moisture	

Prep Batch: 585471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-1	S-1A 0-2	Total/NA	Solid	9012B	
480-185887-2	S-1B 2-12	Total/NA	Solid	9012B	
480-185887-3	S-2A 0-2	Total/NA	Solid	9012B	
480-185887-4	S-2B 2-12	Total/NA	Solid	9012B	
480-185887-5	S-3A 0-2	Total/NA	Solid	9012B	
480-185887-6	S-3B 2-12	Total/NA	Solid	9012B	
MB 480-585471/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 480-585471/2-A	Lab Control Sample	Total/NA	Solid	9012B	
480-185887-6 MS	S-3B 2-12	Total/NA	Solid	9012B	
480-185887-6 MSD	S-3B 2-12	Total/NA	Solid	9012B	

Analysis Batch: 585554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-1	S-1A 0-2	Total/NA	Solid	9012B	585471
480-185887-2	S-1B 2-12	Total/NA	Solid	9012B	585471

General Chemistry (Continued)

Analysis Batch: 585554 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185887-3	S-2A 0-2	Total/NA	Solid	9012B	585471
480-185887-4	S-2B 2-12	Total/NA	Solid	9012B	585471
480-185887-5	S-3A 0-2	Total/NA	Solid	9012B	585471
480-185887-6	S-3B 2-12	Total/NA	Solid	9012B	585471
MB 480-585471/1-A	Method Blank	Total/NA	Solid	9012B	585471
LCSSRM 480-585471/2-A	Lab Control Sample	Total/NA	Solid	9012B	585471
480-185887-6 MS	S-3B 2-12	Total/NA	Solid	9012B	585471
480-185887-6 MSD	S-3B 2-12	Total/NA	Solid	9012B	585471

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-185887-1
Project/Site: Former Raeco Products #828107

Client Sample ID: S-1A 0-2
Lab Sample ID: 480-185887-1
Date Collected: 06/10/21 07:50
Matrix: Solid
Date Received: 06/11/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	585110	06/11/21 19:33	CLA	TAL BUF

Client Sample ID: S-1A 0-2
Lab Sample ID: 480-185887-1
Date Collected: 06/10/21 07:50
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			585182	06/13/21 20:59	WJD	TAL BUF
Total/NA	Analysis	8260C		1	585176	06/14/21 03:26	WJD	TAL BUF
Total/NA	Prep	3550C			585825	06/17/21 08:52	VXF	TAL BUF
Total/NA	Analysis	8270D		10	586077	06/18/21 20:04	PJQ	TAL BUF
Total/NA	Prep	3550C			585998	06/18/21 08:46	VXF	TAL BUF
Total/NA	Analysis	8081B		50	586175	06/21/21 11:23	JLS	TAL BUF
Total/NA	Prep	3550C			585184	06/14/21 07:19	SMP	TAL BUF
Total/NA	Analysis	8082A		1	585460	06/15/21 20:30	W1T	TAL BUF
Total/NA	Prep	8151A			585353	06/15/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	586729	06/24/21 10:53	MAN	TAL BUF
Total/NA	Prep	3050B			585285	06/15/21 07:46	KMP	TAL BUF
Total/NA	Analysis	6010C		1	585781	06/16/21 16:01	LMH	TAL BUF
Total/NA	Prep	7471B			585929	06/18/21 13:15	BMB	TAL BUF
Total/NA	Analysis	7471B		1	586101	06/18/21 15:01	BMB	TAL BUF
Total/NA	Prep	9012B			585471	06/15/21 12:49	JPS	TAL BUF
Total/NA	Analysis	9012B		1	585554	06/15/21 19:07	ALT	TAL BUF

Client Sample ID: S-1B 2-12
Lab Sample ID: 480-185887-2
Date Collected: 06/10/21 07:55
Matrix: Solid
Date Received: 06/11/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	585110	06/11/21 19:33	CLA	TAL BUF

Client Sample ID: S-1B 2-12
Lab Sample ID: 480-185887-2
Date Collected: 06/10/21 07:55
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			585182	06/13/21 20:59	WJD	TAL BUF
Total/NA	Analysis	8260C		1	585176	06/14/21 03:50	WJD	TAL BUF
Total/NA	Prep	3550C			585825	06/17/21 08:52	VXF	TAL BUF
Total/NA	Analysis	8270D		10	586077	06/18/21 20:28	PJQ	TAL BUF
Total/NA	Prep	3550C			585998	06/18/21 08:46	VXF	TAL BUF
Total/NA	Analysis	8081B		50	586175	06/21/21 11:43	JLS	TAL BUF
Total/NA	Prep	3550C			585184	06/14/21 07:19	SMP	TAL BUF
Total/NA	Analysis	8082A		1	585460	06/15/21 20:43	W1T	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-185887-1
Project/Site: Former Raeco Products #828107

Client Sample ID: S-1B 2-12
Lab Sample ID: 480-185887-2
Date Collected: 06/10/21 07:55
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			585353	06/15/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	586729	06/24/21 11:22	MAN	TAL BUF
Total/NA	Prep	3050B			585285	06/15/21 07:46	KMP	TAL BUF
Total/NA	Analysis	6010C		1	585781	06/16/21 16:05	LMH	TAL BUF
Total/NA	Prep	7471B			585929	06/18/21 13:15	BMB	TAL BUF
Total/NA	Analysis	7471B		1	586101	06/18/21 15:03	BMB	TAL BUF
Total/NA	Prep	9012B			585471	06/15/21 12:49	JPS	TAL BUF
Total/NA	Analysis	9012B		1	585554	06/15/21 19:08	ALT	TAL BUF

Client Sample ID: S-2A 0-2
Lab Sample ID: 480-185887-3
Date Collected: 06/10/21 08:00
Matrix: Solid
Date Received: 06/11/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	585110	06/11/21 19:33	CLA	TAL BUF

Client Sample ID: S-2A 0-2
Lab Sample ID: 480-185887-3
Date Collected: 06/10/21 08:00
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 99.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			585182	06/13/21 20:59	WJD	TAL BUF
Total/NA	Analysis	8260C		1	585176	06/14/21 04:15	WJD	TAL BUF
Total/NA	Prep	3550C			585825	06/17/21 08:52	VXF	TAL BUF
Total/NA	Analysis	8270D		5	586077	06/18/21 20:52	PJQ	TAL BUF
Total/NA	Prep	3550C			585998	06/18/21 08:46	VXF	TAL BUF
Total/NA	Analysis	8081B		20	586175	06/21/21 12:02	JLS	TAL BUF
Total/NA	Prep	3550C			585515	06/15/21 15:20	ATG	TAL BUF
Total/NA	Analysis	8082A		1	585694	06/16/21 17:01	NC	TAL BUF
Total/NA	Prep	8151A			585353	06/15/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	586729	06/24/21 11:52	MAN	TAL BUF
Total/NA	Prep	3050B			585285	06/15/21 07:46	KMP	TAL BUF
Total/NA	Analysis	6010C		1	585781	06/16/21 16:09	LMH	TAL BUF
Total/NA	Prep	3050B			585285	06/15/21 07:46	KMP	TAL BUF
Total/NA	Analysis	6010C		2	586019	06/17/21 16:44	AMH	TAL BUF
Total/NA	Prep	7471B			585929	06/18/21 13:15	BMB	TAL BUF
Total/NA	Analysis	7471B		1	586101	06/18/21 15:04	BMB	TAL BUF
Total/NA	Prep	9012B			585471	06/15/21 12:49	JPS	TAL BUF
Total/NA	Analysis	9012B		1	585554	06/15/21 19:10	ALT	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-185887-1
Project/Site: Former Raeco Products #828107

Client Sample ID: S-2B 2-12
Lab Sample ID: 480-185887-4
Date Collected: 06/10/21 08:05
Matrix: Solid
Date Received: 06/11/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	585110	06/11/21 19:33	CLA	TAL BUF

Client Sample ID: S-2B 2-12
Lab Sample ID: 480-185887-4
Date Collected: 06/10/21 08:05
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			585343	06/14/21 18:03	WJD	TAL BUF
Total/NA	Analysis	8260C		1	585327	06/14/21 19:54	WJD	TAL BUF
Total/NA	Prep	3550C			585825	06/17/21 08:52	VXF	TAL BUF
Total/NA	Analysis	8270D		5	586077	06/18/21 21:16	PJQ	TAL BUF
Total/NA	Prep	3550C			585998	06/18/21 08:46	VXF	TAL BUF
Total/NA	Analysis	8081B		100	586175	06/21/21 12:22	JLS	TAL BUF
Total/NA	Prep	3550C			585515	06/15/21 15:20	ATG	TAL BUF
Total/NA	Analysis	8082A		1	585694	06/16/21 17:13	NC	TAL BUF
Total/NA	Prep	8151A			585353	06/15/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	586729	06/24/21 16:20	MAN	TAL BUF
Total/NA	Prep	3050B			585285	06/15/21 07:46	KMP	TAL BUF
Total/NA	Analysis	6010C		1	585781	06/16/21 16:13	LMH	TAL BUF
Total/NA	Prep	3050B			585285	06/15/21 07:46	KMP	TAL BUF
Total/NA	Analysis	6010C		2	586019	06/17/21 16:48	AMH	TAL BUF
Total/NA	Prep	7471B			585929	06/18/21 13:15	BMB	TAL BUF
Total/NA	Analysis	7471B		1	586101	06/18/21 15:05	BMB	TAL BUF
Total/NA	Prep	9012B			585471	06/15/21 12:49	JPS	TAL BUF
Total/NA	Analysis	9012B		1	585554	06/15/21 19:11	ALT	TAL BUF

Client Sample ID: S-3A 0-2
Lab Sample ID: 480-185887-5
Date Collected: 06/10/21 08:10
Matrix: Solid
Date Received: 06/11/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	585110	06/11/21 19:33	CLA	TAL BUF

Client Sample ID: S-3A 0-2
Lab Sample ID: 480-185887-5
Date Collected: 06/10/21 08:10
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			585182	06/13/21 20:59	WJD	TAL BUF
Total/NA	Analysis	8260C		1	585176	06/14/21 05:04	WJD	TAL BUF
Total/NA	Prep	3550C			585825	06/17/21 08:52	VXF	TAL BUF
Total/NA	Analysis	8270D		1	586077	06/18/21 21:40	PJQ	TAL BUF
Total/NA	Prep	3550C			585998	06/18/21 08:46	VXF	TAL BUF
Total/NA	Analysis	8081B		5	586175	06/21/21 12:42	JLS	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-185887-1
Project/Site: Former Raeco Products #828107

Client Sample ID: S-3A 0-2
Lab Sample ID: 480-185887-5
Date Collected: 06/10/21 08:10
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			585515	06/15/21 15:20	ATG	TAL BUF
Total/NA	Analysis	8082A		1	585694	06/16/21 17:26	NC	TAL BUF
Total/NA	Prep	8151A			585353	06/15/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	586729	06/24/21 16:50	MAN	TAL BUF
Total/NA	Prep	3050B			585285	06/15/21 07:46	KMP	TAL BUF
Total/NA	Analysis	6010C		1	585781	06/16/21 16:17	LMH	TAL BUF
Total/NA	Prep	7471B			585929	06/18/21 13:15	BMB	TAL BUF
Total/NA	Analysis	7471B		1	586101	06/18/21 15:07	BMB	TAL BUF
Total/NA	Prep	9012B			585471	06/15/21 12:49	JPS	TAL BUF
Total/NA	Analysis	9012B		1	585554	06/15/21 19:13	ALT	TAL BUF

Client Sample ID: S-3B 2-12
Lab Sample ID: 480-185887-6
Date Collected: 06/10/21 08:15
Matrix: Solid
Date Received: 06/11/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	585325	06/14/21 15:34	DSC	TAL BUF

Client Sample ID: S-3B 2-12
Lab Sample ID: 480-185887-6
Date Collected: 06/10/21 08:15
Matrix: Solid
Date Received: 06/11/21 08:00
Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			585182	06/13/21 20:59	WJD	TAL BUF
Total/NA	Analysis	8260C		1	585176	06/14/21 05:28	WJD	TAL BUF
Total/NA	Prep	3550C			585825	06/17/21 08:52	VXF	TAL BUF
Total/NA	Analysis	8270D		1	586077	06/18/21 19:40	PJQ	TAL BUF
Total/NA	Prep	3550C			585998	06/18/21 08:46	VXF	TAL BUF
Total/NA	Analysis	8081B		10	586175	06/21/21 11:03	JLS	TAL BUF
Total/NA	Prep	3550C			585515	06/15/21 15:20	ATG	TAL BUF
Total/NA	Analysis	8082A		1	585694	06/16/21 16:48	NC	TAL BUF
Total/NA	Prep	8151A			585353	06/15/21 06:53	SMP	TAL BUF
Total/NA	Analysis	8151A		1	586729	06/24/21 08:24	MAN	TAL BUF
Total/NA	Prep	3050B			585285	06/15/21 07:46	KMP	TAL BUF
Total/NA	Analysis	6010C		1	585781	06/16/21 16:32	LMH	TAL BUF
Total/NA	Prep	7471B			585930	06/18/21 13:15	BMB	TAL BUF
Total/NA	Analysis	7471B		1	586101	06/18/21 15:10	BMB	TAL BUF
Total/NA	Prep	9012B			585471	06/15/21 12:49	JPS	TAL BUF
Total/NA	Analysis	9012B		1	585554	06/15/21 19:03	ALT	TAL BUF

Laboratory References:
TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C.
Job ID: 480-185887-1
Project/Site: Former Raeco Products #828107

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: New York State D.E.C.
Project/Site: Former Raeco Products #828107

Job ID: 480-185887-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL BUF
8151A	Extraction (Herbicides)	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State D.E.C.
Project/Site: Former Raeco Products #828107

Job ID: 480-185887-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-185887-1	S-1A 0-2	Solid	06/10/21 07:50	06/11/21 08:00	
480-185887-2	S-1B 2-12	Solid	06/10/21 07:55	06/11/21 08:00	
480-185887-3	S-2A 0-2	Solid	06/10/21 08:00	06/11/21 08:00	
480-185887-4	S-2B 2-12	Solid	06/10/21 08:05	06/11/21 08:00	
480-185887-5	S-3A 0-2	Solid	06/10/21 08:10	06/11/21 08:00	
480-185887-6	S-3B 2-12	Solid	06/10/21 08:15	06/11/21 08:00	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Syracuse

Client Information	Sampler: STEFAN TRUEX	Lab PM: Johnson, Orlette S	Carrier Tracking No(s): #225	COC No: 480-161531-35490.1
Client Contact: Stefan Truex	Phone: 518-877-7101	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: HRP Associates, Inc.	PWSID:			Job #: DEC1007.EA
Address: 1 Fairchild Square Suite 110	Due Date Requested: STANDARD			
City: Clifton Park	TAT Requested (days): STANDARD			
State, Zip: NY, 12065	Compliance Project: Δ Yes Δ No			
Phone: 518-877-7101	PO #: CallOut ID: 139727			
Email: Stefan.Truex@hrpassociates.com	WO #:			
Project Name: Former Raeco Products #828107	Project #: 48023582			
Site: FORMER RAECO PRODUCTS	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

480-185887 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2 + 10 TICs	8081B, 8082A, 8151A, 8270D	6010C, 7471B	9012B - Total Cyanide	Total N	Special Instructions/Note:
			Preservation Code:		N	N	N	N	N	N		
S-1A (0"-2")	6/10/21	750	G	Solid	N	N	X	X	X	X		+CATEGORY B
S-1B (2"-12")	6/10/21	755	G	Solid	N	N	X	X	X	X		REPORT
S-2A (0"-2")	6/10/21	800	G	Solid	N	N	X	X	X	X		
S-2B (2"-12")	6/10/21	805	G	Solid	N	N	X	X	X	X		+ STANDARD TAT
S-3A (0"-2")	6/10/21	810	G	Solid	N	N	X	X	X	X		
S-3B (2"-12")	6/10/21	815	G	Solid	N	N	X	X	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CATEGORY B REPORT

Special Instructions/QC Requirements: STANDARD TAT

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		6-10-21, 1600	HRP	R.Ruglich	6-10-21, 1600	
2	R.Ruglich	6-10-21, 1900	Eyz		Date/Time	Company
3		Date/Time	Company	Received by	6/11/21 0800	TAT

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.4 #1

Ver: 11/01/2020

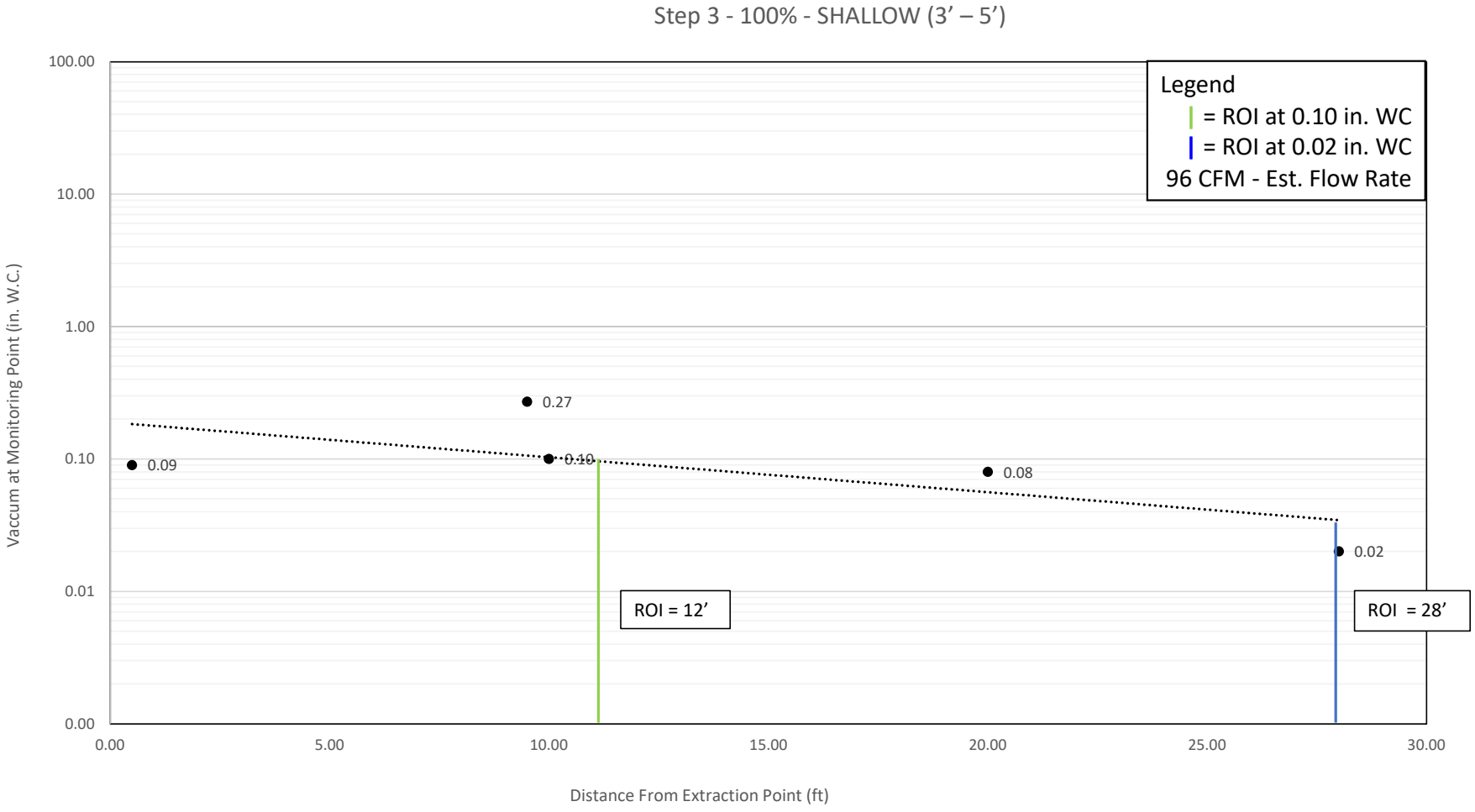
Login Sample Receipt Checklist

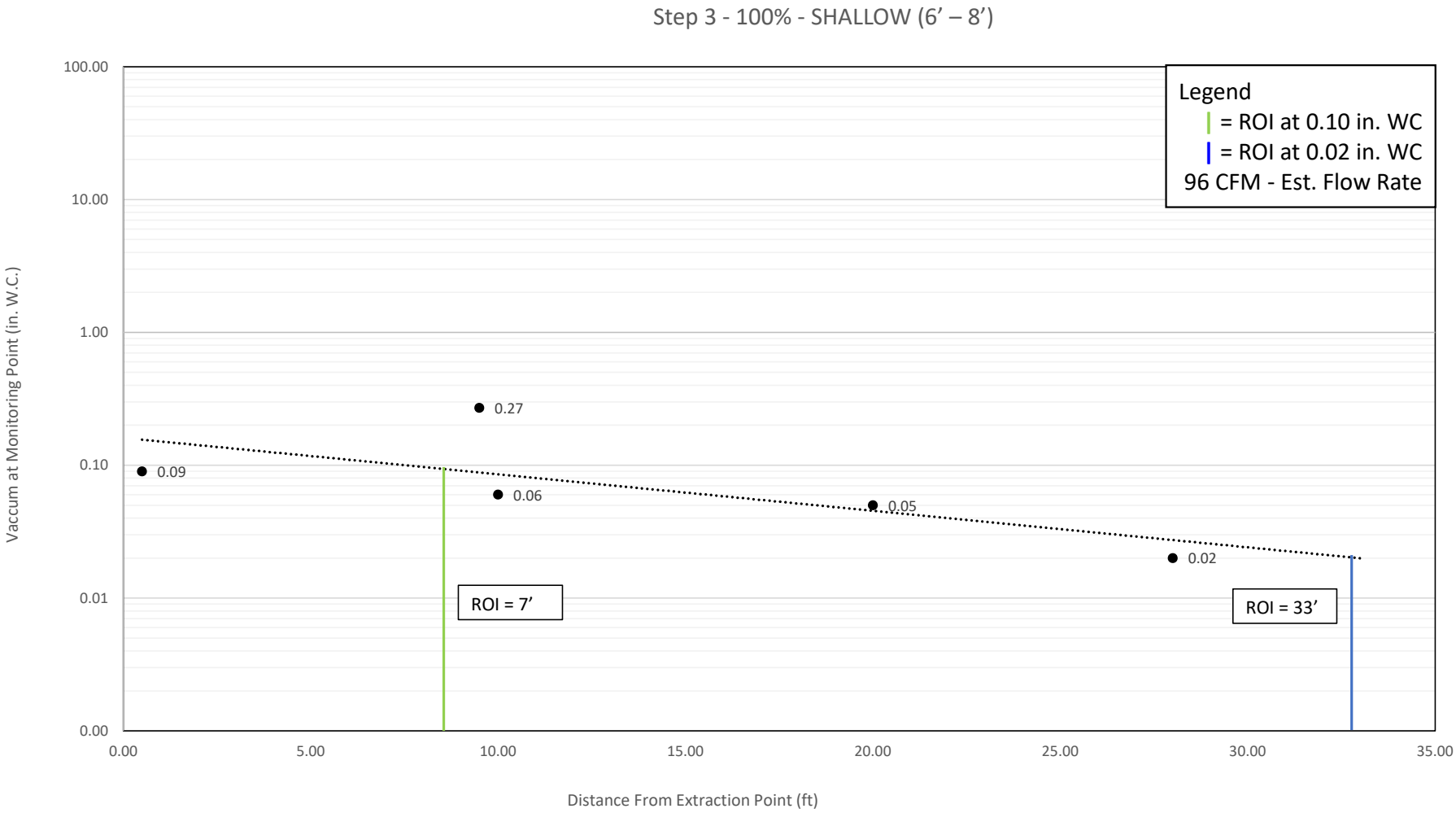
Client: New York State D.E.C. Job Number: 480-185887-1

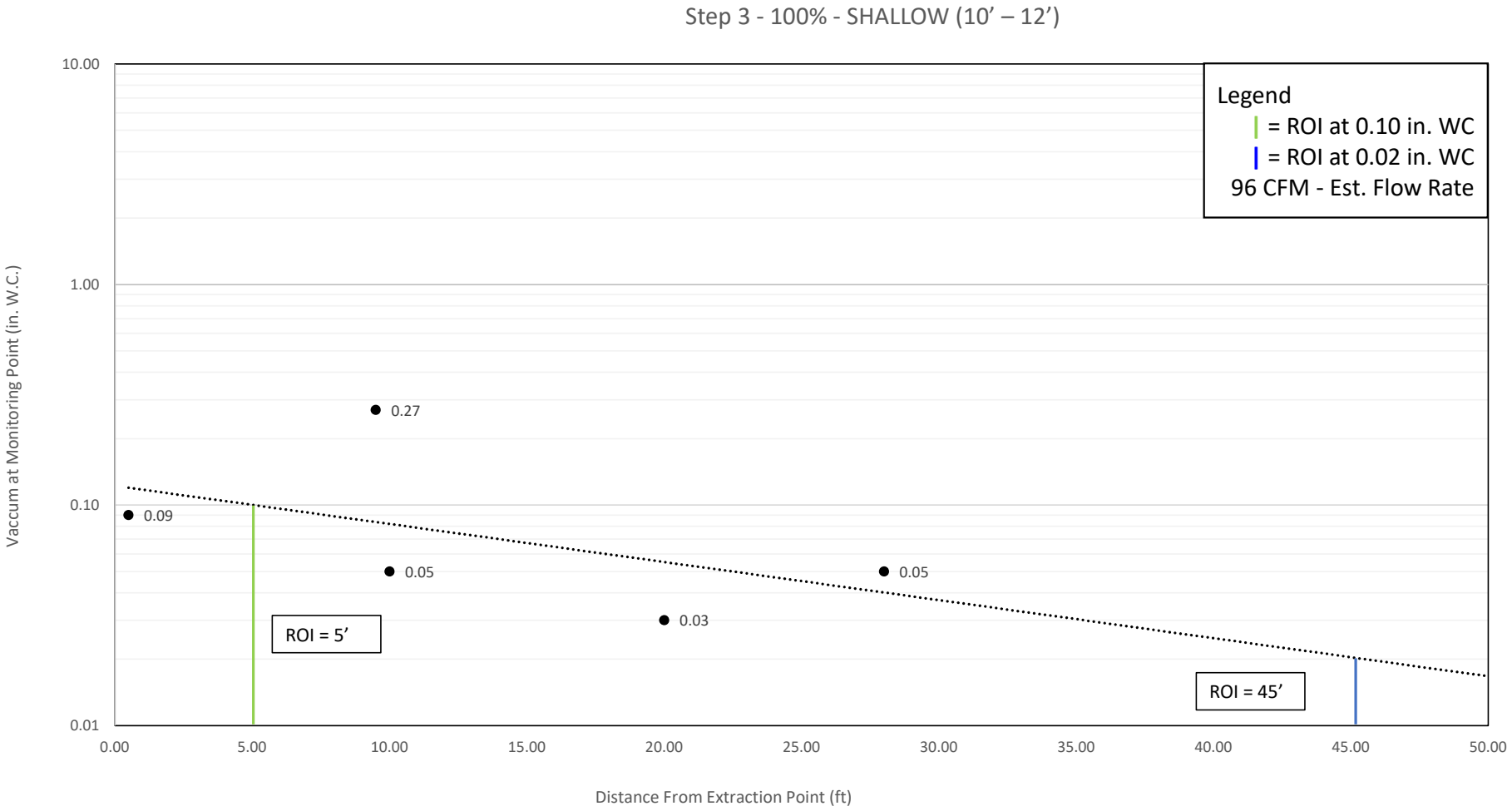
Login Number: 185887 **List Source: Eurofins TestAmerica, Buffalo**
List Number: 1
Creator: Stopa, Erik S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	HRP
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

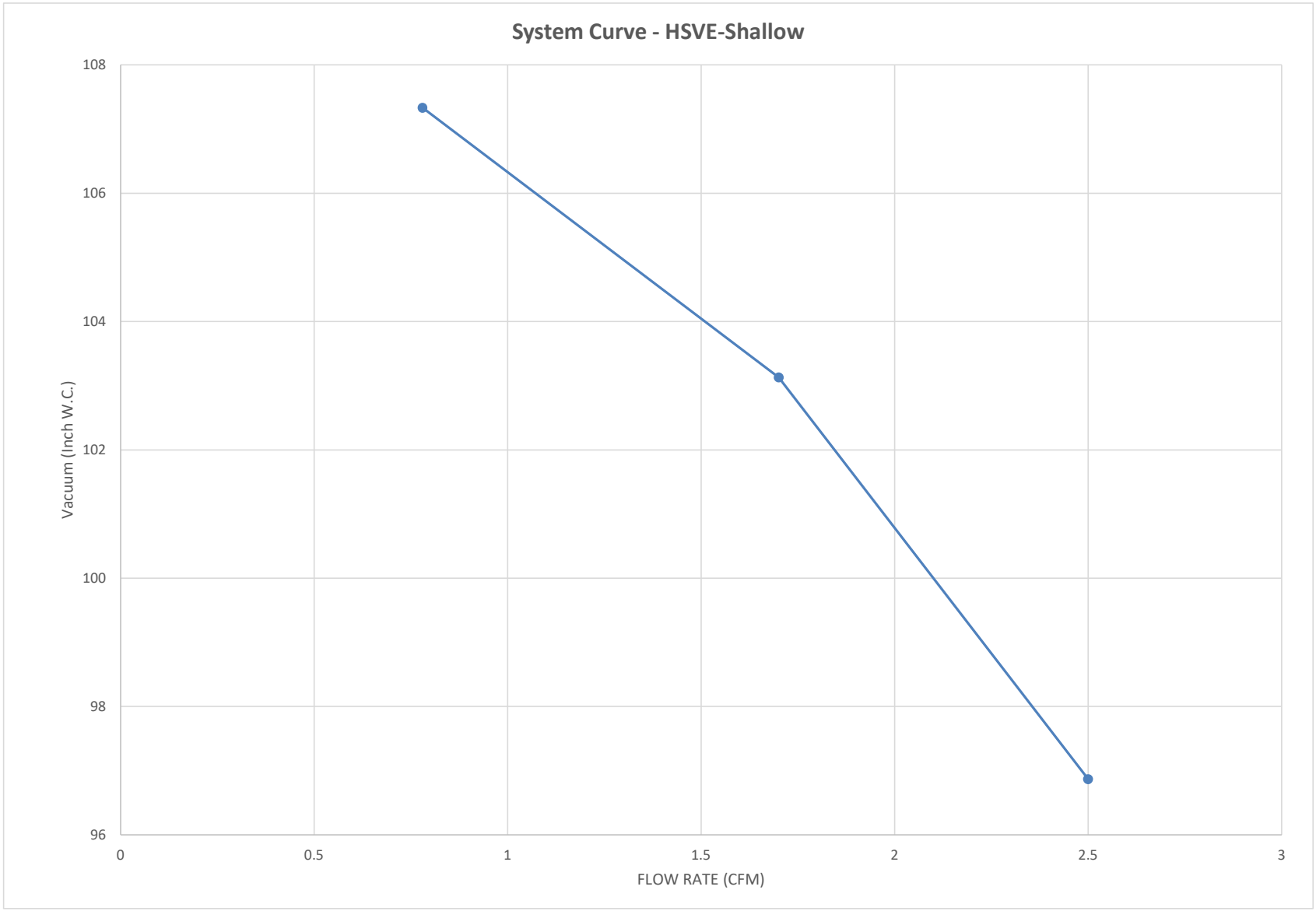
APPENDIX C
Radius of Influence Graphic Plots

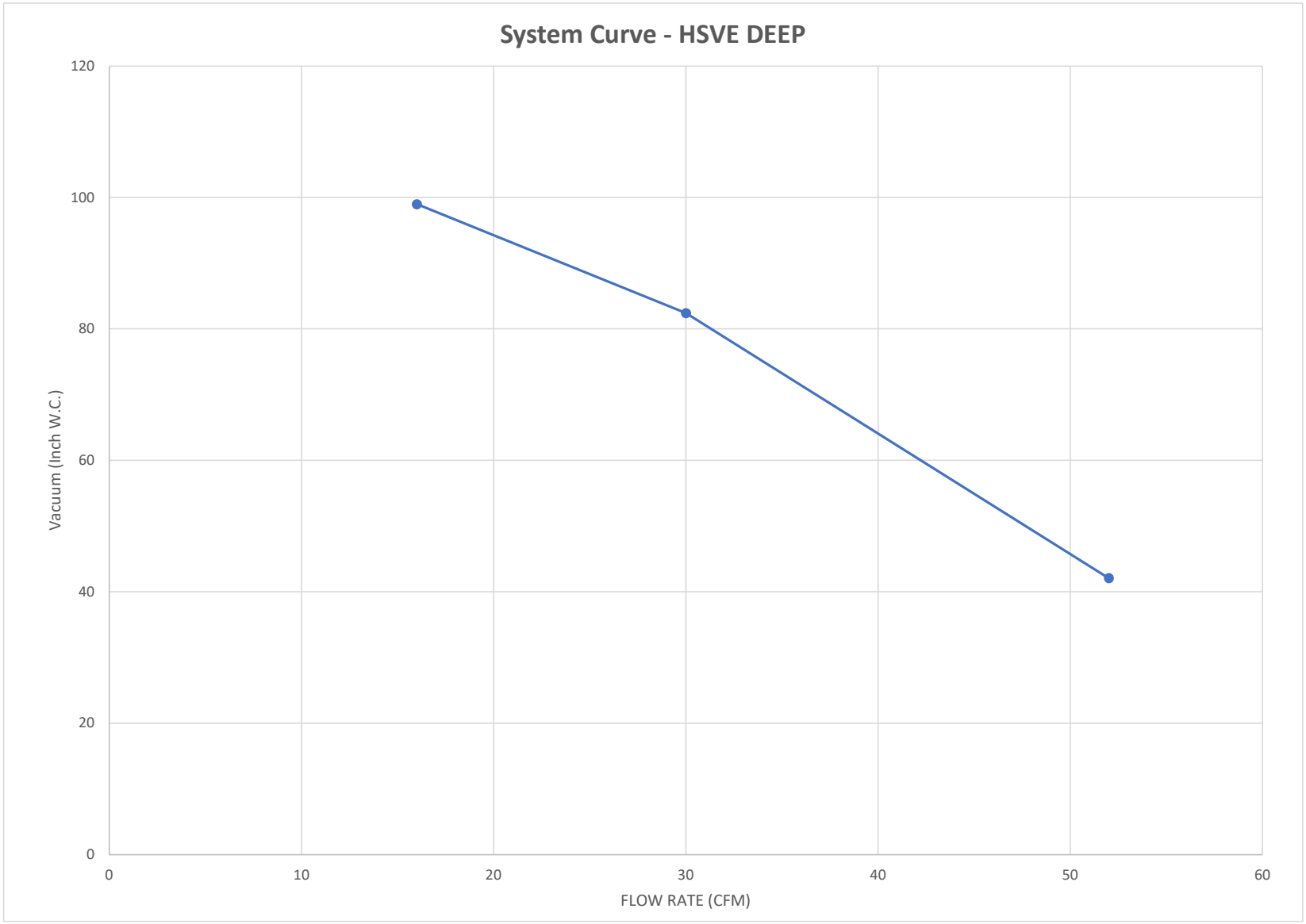

Step 3 - 100% - SHALLOW (3’ – 5’)
Vaccum at Monitoring Point (in. W.C.)
100.00
10.00
1.00
0.10
0.01
0.00
0.00
5.00
10.00
15.00
20.00
25.00
30.00
Distance From Extraction Point (ft)
Legend
= ROI at 0.10 in. WC
= ROI at 0.02 in. WC
96 CFM - Est. Flow Rate
0.09
0.27
0.10
0.08
0.02
ROI = 12’
ROI = 28’

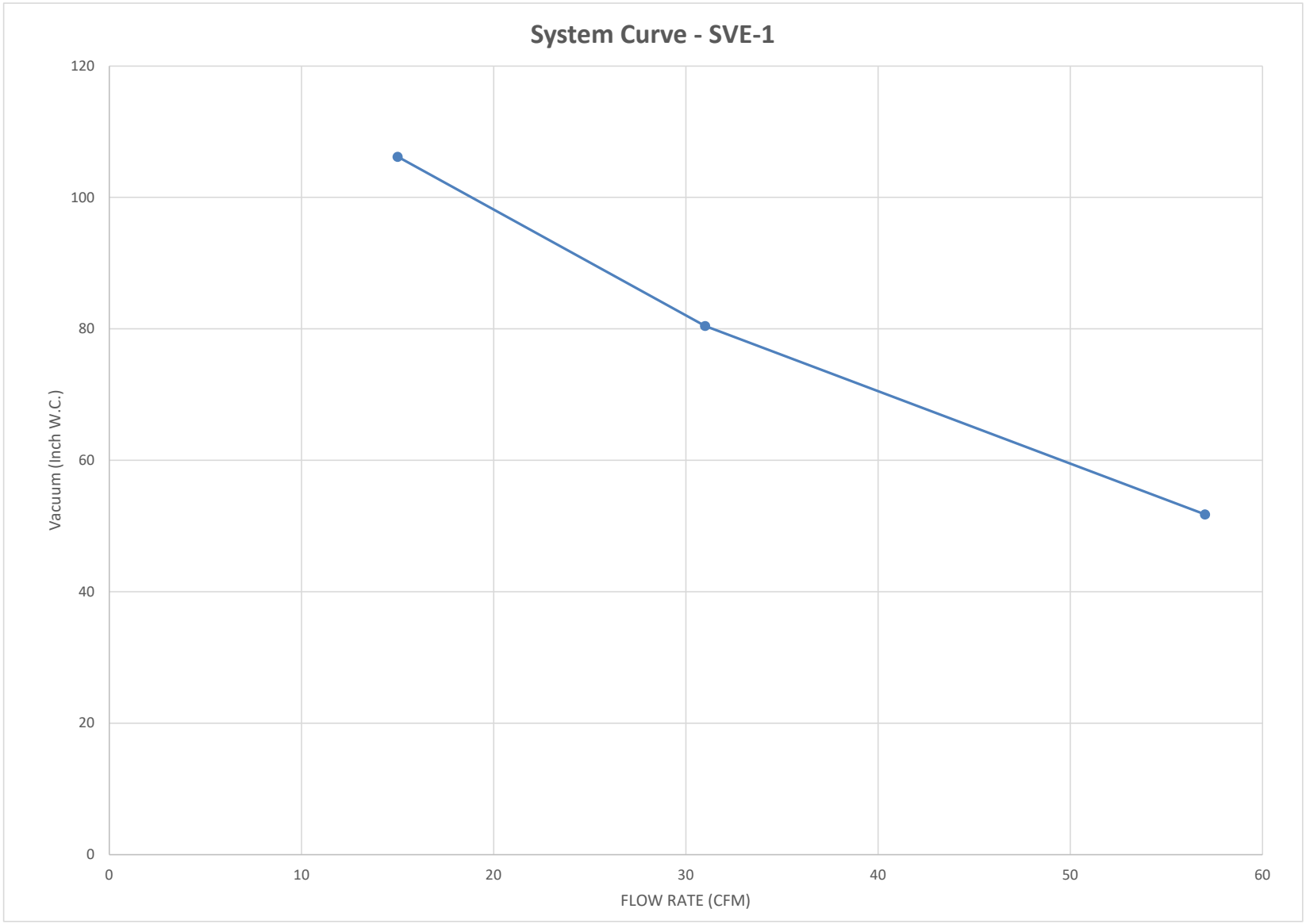

Step 3 - 100% - SHALLOW (6’ – 8’)
Legend
= ROI at 0.10 in. WC
= ROI at 0.02 in. WC
96 CFM - Est. Flow Rate
Vaccum at Monitoring Point (in. W.C.)
100.00
10.00
1.00
0.10
0.01
0.00
0.09
0.27
0.06
0.05
0.02
ROI = 7’
ROI = 33’
0.00
5.00
10.00
15.00
20.00
25.00
30.00
35.00
Distance From Extraction Point (ft)


Step 3 - 100% - SHALLOW (10’ – 12’)
Legend
= ROI at 0.10 in. WC
= ROI at 0.02 in. WC
96 CFM - Est. Flow Rate
Vaccum at Monitoring Point (in. W.C.)
10.00
1.00
0.10
0.01
0.09
0.27
0.05
0.03
0.05
ROI = 5’
ROI = 45’
0.00
5.00
10.00
15.00
20.00
25.00
30.00
35.00
40.00
45.00
50.00
Distance From Extraction Point (ft)

APPENDIX D
Soil Vapor Extraction System Curves


System Curve - HSVE-Shallow
Vacuum (Inch W.C.)
108
106
104
102
100
98
96
0
0.5
1
1.5
2
2.5
3
FLOW RATE (CFM)


System Curve - HSVE DEEP
120
100
80
60
40
20
0
Vacuum (Inch W.C.)
0
10
20
30
40
50
60
FLOW RATE (CFM)


System Curve - SVE-1
120
100
80
60
40
20
0
Vacuum (Inch W.C.)
0
10
20
30
40
50
60
FLOW RATE (CFM)

APPENDIX C
Engineer's Cost Estimate

Appendix C1

Engineer's Cost Estimate
SVE System Installation and OM+M
Former Raeco Products
Site # 828107
24 Spencer Street
Rochester, New York

SVE Trench & System Installation				
SVE Trench & System Installation	*Quantity*	*Unit*	*Unit Cost*	*Cost*
Mobilization	1	LS	$10,000.00	$10,000.00
Excavation for Piping	200	CY	$50.00	$10,000.00
Transportation and disposal of excavated soil	300	TON	$300.00	$90,000.00
4-inch diameter solid pipe	200	LF	$10.00	$2,000.00
4-inch diameter screened pipe	170	LF	$20.00	$3,400.00
Manifold and connection to existing piping	1	LS	$2,500.00	$2,500.00
Geotextile fabric	100	SY	$5.00	$500.00
Gravel	100	CY	$45.00	$4,500.00
Imported Fill	120	CY	$40.00	$4,800.00
Blower	1	EA	$25,000.00	$25,000.00
Vapor phase carbon units	2	EA	$5,000.00	$10,000.00
Electrical Service	1	LS	$10,000.00	$10,000.00
CAMP	2	WEEK	$1,250.00	$2,500.00
			Contractor Cost	$175,200.00
			Contingency (20%)	$210,240.00

Soil Boring Installation and Sampling				
Soil Boring Installation and Sampling	*Quantity*	*Unit*	*Unit Cost*	*Cost*
Drill Rig and Operator	1	DAY	$3,000.00	$3,000.00
Ground Penetrating Radar	1	DAY	$1,400.00	$1,400.00
Geologist	12	HR	$100.00	$1,200.00
Project Manager	4	HR	$150.00	$600.00
PID	1	DAY	$90.00	$90.00
CAMP	1	DAY	$440.00	$440.00
			Contractor Cost	$6,730.00
			Contingency (20%)	$8,076.00

SVE OM&M				
SVE OM&M	*Quantity*	*Unit*	*Unit Cost*	*Cost*
Technician	16	DAY	$1,200.00	$19,200.00
Project Manager	80	HR	$150.00	$12,000.00
PID	16	DAY	$90.00	$1,440.00
Mileage	7200	Miles	$0.59	$4,212.00
			Contractor Cost	$36,852.00
			Contingency (20%)	$44,222.40

Total (with 20% Contingency) $262,538.40

Notes:

*Excludes Sales Tax

*All costs are estimated, and may vary based on timing, schedule, and availability of construction materials.

*Soil Boring Installation and Sampling Costs assume one sampling event

*SVE OM&M costs assume one year of visits according to schedule indicated in RAWP (16 visits).

Appendix C2

Engineer's Cost Estimate
Cover System Installation
Former Raeco Products
Site # 828107
24 Spencer Street
Rochester, New York

Cover System Installation				
Cover System	*Quantity*	*Unit*	*Unit Cost*	*Cost*
Mobilization	1	LS	$10,000.00	$10,000.00
Grading	76,050	Sq Ft	$1.00	$76,050.00
Asphalt Cap (Permeable Asphalt) & subbase	76,050	Sq Ft	$8.00	$608,400.00
Equipment & Labor	15	Days	$8,000.00	$120,000.00
Health and Safety	1	LS	$5,000.00	$5,000.00
Survey	2	EA	$12,000.00	$24,000.00
Drainage	0	LS	$0.00	$0.00
			Contractor Cost	$843,450.00
			Contingency (20%)	$1,012,140.00

Total (with 20% Contingency) $1,012,140.00

Notes:
*Excludes Sales Tax
*All costs are estimated, and may vary based on timing, schedule, and availability of asphalt pavement construction material.
*Assumes CAMP will not be required.

APPENDIX D

COVID-19 Risk Management Specifications

SECTION 01 35 33

COVID-19 RISK MANAGEMENT

PART 1 – GENERAL

1.1 SUMMARY

A. This Section includes requirements for managing and minimizing the potential for transmission of the Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) virus, which causes the Novel Coronavirus Disease 2019 (COVID-19). COVID-19 typically causes respiratory illness in people.

B. Transmission: SARS-CoV-2 is currently known to spread via respiratory droplets produced when a person infected with the virus coughs or sneezes, the same way flu and other respiratory illnesses spread. SARS-CoV-2 can also be transmitted if people touch surfaces and objects with the virus on it.

C. Symptoms: COVID-19 can cause mild to severe respiratory illness with symptoms of fever, cough, and difficulty breathing. Preliminary information suggests older adults and people with underlying health conditions or compromised immune systems may be at higher risk of severe illness from this virus. Center for Disease Control (CDC) believes that symptoms of COVID-19 begin between 2 and 14 days after exposure.

D. Best Practices to Prevent Infection: Currently the best way identified to prevent infection is to minimize the potential of exposure to SARS-CoV-2. CDC recommends everyday actions to help prevent the spread of any respiratory viruses

- Wash your hands often with soap and water for at least 20 seconds. If soap and water are not available, use an alcohol-based hand sanitizer, containing at least 60% alcohol.
- Avoid touching your eyes, nose, and mouth with unwashed hands.
- Avoid close contact with people who are sick.
- Stay home when you are sick.
- Cover your cough or sneeze with a tissue, then throw the tissue in the trash can and wash hands or use hand sanitizer.
- Clean and disinfect frequently touched objects and surfaces.
- Wear face masks
- Safe social distancing (e.g., maintain a distance of 6 feet between people, limited group meetings)

1.2 OBJECTIVE

A. The objective of this specification is to minimize transmission and subsequent infections of COVID-19 in project staff that may arise as a result of exposure to SARS-CoV-2 released into the environment during construction and renovation activities. Controlling the dispersal of airborne infectious agents is critical to achieving this objective.

1.3 PERFORMANCE REQUIREMENTS AND RESPONSIBILITIES

A. The intent of this Section is to document and formalize the Contractor's requirements for minimizing the risk of transmission of COVID-19 among site workers, project staff, and the surrounding community during construction per the latest recommendations of federal, state and local health agencies. This includes developing a COVID-19 Management Plan, establishing procedures for conducting onsite work activities to prevent virus transmission, monitoring staff health, and reporting requirements.

B. The Contractor is expected to communicate the requirements described in this section to all site workers, subcontractors, and visitors to the site daily, during daily Health and Safety meetings as well as through site postings (see attachment).

C. Contractors and their subcontractors are required at all times to guard the safety and health of all persons on and in the vicinity of the work site.

D. Contractors and their subcontractors are required to comply with all applicable rules, regulations, codes, and bulletins of the New York State Department of Labor and the standards imposed under the Federal Occupational Safety and Health Act of 1970, as amended ("OSHA").

E. Contractors and their subcontractors must comply with all City or State of New York safety requirements for projects within the City or State of New York constructed in accordance with the applicable building code.

F. Contractors and their subcontractors shall stay current and immediately implement the most up-to-date government issued practices to protect the safety and health of your employees, clients, and the general public.

1.4 RELATED SECTIONS

A. Section 01 35 29 – Contractor's Health and Safety Plan

1.5 REFERENCES

A. Occupational Safety and Health Administration (OSHA) Guidance on Preparing Workplaces for COVID-19

B. New York State Department of Health

C. Centers for Disease Control and Prevention (CDC)

D. National Institute for Occupational Safety and Health (NIOSH)

E. Health Insurance Portability and Accountability Act (HIPAA)

1.6 SUBMITTALS

A. The Contractor shall prepare a COVID-19 Management Plan which can be a Supplement, or Addendum, to the Contractor' Health and Safety Plan

B. The CONTRACTOR shall develop a one-page summary of site-specific practices for COVID-19 management and clearly display on site. Operating hours, delivery times, and extra considerations for works involving a high volume of personnel or potential for interaction with community members could also be included in the summary.

C. The Contractor's Daily Field Report shall include a Daily Health Checklist, with the following questions at a minimum:

DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ☐	No ☐
Is the tail gate safety meeting held outdoors?	Yes ☐	No ☐
Are remote/call-in job meetings being held in lieu of meeting in person where possible?	Yes ☐	No ☐
Were personal protective gloves, masks, and eye protection being used?	Yes ☐	No ☐
Are sanitizing wipes, wash stations or spray available?	Yes ☐	No ☐
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes ☐	No ☐
Comments:		

1.7 COVID-19 MANAGEMENT PLAN

A. At a minimum, the COVID-19 Management Plan shall include:
   1. Identification of potential exposure pathways and exposure risks associated with work tasks, e.g. activity hazard analysis (AHA).
   2. Identification of local health department contact information and COVID-19 testing sites and procedures.

3. Detailed written description of the onsite personnel protection measures that will be utilized and a detailed explanation of how they will be implemented, monitored, and communicated.
4. Detailed written description of measures that will be taken to prevent transmission to or from the surrounding community and how they will be implemented and communicated.
5. Procedures to be followed in the event a site worker is diagnosed with or is suspected of having COVID-19, including identification of all personnel potentially exposed and isolation requirements.
6. Daily cleaning schedules and disinfection procedures per the most recent CDC guidelines.
7. Cleaning and disinfection procedures in the event there is/are suspected COVID-19 case(s) among site personnel.
8. Site access controls and entry/exit procedures.
9. Plan view of points of egress and delivery locations.

B. The COVID-19 Management Plan must be updated following any issued change(s) in federal, state, or local health agency guidance.

1.8 PRECONSTRUCTION CONFERENCE

A. Pre-Construction Conference shall include a review of methods and procedures related to COVID-19 risk management including, but not limited to the following:
1. Review of COVID-19 Management Plan
2. Review infection control procedures
3. Review staff monitoring and reporting requirements.

PART 2 - PRODUCTS - Not Used

PART 3 - EXECUTION

3.1 RISK IDENTIFICATION

A. COVID-19 is a new disease; scientists and health agencies are continuously learning about how it spreads. The Contractor shall adjust site policies based on the most up to date government issued guidance regarding transmission.

B. Contractor shall confirm staff that have worked in locations where quarantine orders are in place, have met the minimum quarantine guidance and do not have symptoms prior to mobilizing to site.

C. Contractor shall monitor staff daily, including checking, and documenting, temperature with no contact infrared thermometer, to confirm onsite staff do not exhibit COVID-19 symptoms. Contractor shall provide daily reports of those tests upon NYSDEC's request.

3.2 RISK MINIMIZATION

A. Engineering Controls
   1. Increasing ventilation rates of interior workspaces.
   2. Access controls, including fences and locking gates.
   3. Maintain 6 feet distances, using distance markers where appropriate in the field.

B. Administrative Controls
   1. Continuous and effective communication of administrative controls/requirements to all site personnel and visitors, through the posting of site signage, preparation and distribution of site plans, presented during site meetings, and verbal warnings if necessary.
   2. Require that all employees exhibiting any COVID-19 symptom do not enter the site and provide sick leave policies to support this requirement.
   3. To minimize face-to-face interaction, the Site's Health & Safety Officer's (or other designated employee) phone number shall be prominently posted and disseminated to project staff to be called for the purpose of site sign in and sign out by all visitors to the site upon arrival and exit. The designated employee will receive entry and exit calls each day and will fill out the site entry/exit log for each site visitor to reduce traffic in site trailer and/or the number of individuals contacting the site access tracking log.
   4. Staffing: only those employees necessary to complete critical path task(s) shall be present on-site at any given time. Work shall be scheduled to minimize the density of personnel in any given area at any given time.
   5. Working Remotely; employees shall be encouraged to complete work remotely if possible.
   6. Face-to-face meetings shall be replaced with video or phone conferences when practicable.
   7. Social distancing shall be exercised for face-to-face meetings e.g. daily Health and Safety tailgate meeting. In addition, the Contractor shall plan to have multiple meetings (if necessary) to keep the number of participants to a threshold that allows for the practice of social distancing protocol. The Health and Safety officer will keep a record of all present for each meeting on the Health and Safety log.
   8. Quarantine staff that have been in contact with a anyone that tested positive and notify NYSDEC immediately.

C. Safe Work Practices
   1. The Contractor shall employ social distancing protocol for all onsite activities when able.
   2. The Contractor provide PPE and adequate hand washing stations and hand sanitizer (containing a minimum of 60% alcohol) to allow site personnel and visitors to practice good personal hygiene.
   3. The Contractor shall provide tissues, paper towels, no-touch trash cans, and disinfectants to maintain site cleanliness.

4. Sharing of tools and heavy equipment shall be limited to the extent practicable; handles of shared tools and equipment shall be sanitized regularly.

D. Personal Protective Equipment

1. Employees shall be provided disposable personal protective equipment (PPE), including gloves, goggles, face shields, face masks, and respiratory protection, as appropriate based on work environment and current recommendations by OSHA and CDC.
2. The CONTRACTOR shall maintain onsite available personal protective equipment for use by the DEPARTMENT.
3. All PPE must be selected based on hazard to the worker, properly fitted and periodically refitted, consistently and properly worn when required, regularly inspected, maintained, and replaced, as necessary, and properly removed, cleaned, and stored or disposed of, to avoid contamination of self, others, or the environment.
4. PPE worn to prevent transmission of COVID-19 is not to be confused with PPE for protection against site contaminants.
5. PPE must be worn, removed, and disposed of correctly in order to remain effective.
    a. Face masks should fit snugly but comfortable against the side of the face and over the nose and be secured with ties or ear loops; cloth masks must include multiple layers of fabric, allow for breathing without restriction, and be able to be laundered and machine dried without damage.
    b. Face masks should be worn consistently and removed without touching eyes, nose, and mouth. An individual should wash their hands after handling a used face mask.
    c. Cloth face coverings should be sterilized by machine washing between use; disposable face masks shall be disposed of properly after using.
    d. Gloves are only effective if changed and disposed of frequently, to avoid cross-contamination.

3.3 NOTIFICATION OF POTENTIAL OR CONFIRMED INFECTION

A. The Contractor shall notify the Department immediately upon identification of a suspected or confirmed infection of COVID-19. This notification shall comply with HIPAA regulations.

B. The Contractor shall remove an individual suspected to have COVID-19 from the site immediately (to the individuals' hotel or local place of residence if transport home is not immediately feasible), as well as those who have worked in close contact with that individual for extended periods of time (an hour at a time or more) over the previous week. The individual with suspected infection shall contact their health care provider and/or follow local health department testing procedures and protocol.

C. While in the process of removing an employee exhibiting symptoms, steps should be taken to isolate the individual, place a surgical mask on the individual and inform the local health department and the NYSDEC.

D. In the event the individual with suspected infection cannot get home right away, they shall isolate in their hotel room (notifying hotel management of their symptoms), contact their health care provider, and/or follow local health department testing procedures and protocol.

E. In the absence of local health department information, the individual may call the New York State Hotline at 1-888-364-3065.

F. The Contractor shall maintain communication with potentially infected individual(s) and notify the Engineer upon receipt of COVID-19 test results.

G. Positively infected individuals may return to work at the site after 72 hours of being symptom-free and 7 days of isolation after the first symptoms appeared, or in accordance with the current federal, state, and local guidelines

H. OSHA recordkeeping requirements at 29 CFR Part 1904 mandate covered employers record certain work-related injuries and illnesses on their OSHA 300 log. COVID-19 can be a recordable illness if a worker is infected as a result of performing their work-related duties. However, employers are only responsible for recording cases of COVID-19 if all the following are met:

1. The case is a confirmed case of COVID-19 (see CDC information on persons under investigation and presumptive positive and laboratory-confirmed cases of COVID-19).

2. The case is work-related, as defined by 29 CFR 1904.5; and

3. The case involves one or more of the general recording criteria set forth in 29 CFR 1904.7 (e.g. medical treatment beyond first-aid, days away from work).

END OF SECTION

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NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Entry/Exit Log with COVID-19 Acknowledgement

Project Name: _____

Project #: _____

New York State Department of Environmental Conservation's (DEC) objective is to provide a safe and healthy workplace. In response to COVID-19, DEC is prohibiting access to our work areas by those who pose an elevated risk of spreading COVID-19. By completing this site Entry/Exit log, you acknowledge your understanding of this policy and confirm that your health and travel history is NOT in one of the prohibited access groups listed below, and to the best of your knowledge, you do not pose an elevated risk of transmitting COVID-19 to others. Please leave the site immediately and follow recommendations from public health agencies and your healthcare provider if you fall into one of the prohibited access groups listed below:

- You are experiencing flu-like symptoms including but not limited to fever, chills, cough, sore throat, diarrhea, vomiting, runny/stuffy nose, muscle or body aches, headaches, fatigue.
- You have traveled to CDC-restricted destinations in the last 2 weeks including China, South Korea, Iran, United Kingdom & Ireland, all European Union countries, Switzerland and regions within the U.S. for which public health agencies have prohibited travel.
- You had direct contact with a person diagnosed with COVID-19 or suspected of having COVID-19 during the last 2 weeks.

Name	Initials	Affiliation	Date	Time In	Time Out

PREVENT INFECTION

Wash your hands and use hand sanitizer

Wash your hands frequently and thoroughly, for a minimum of 20 seconds.

Use hand sanitizer, containing at least 60% alcohol when you are unable to wash your hands with soap and water.

Cover your cough or sneeze

Cover your mouth and nose when coughing or sneezing. Turn your head away from others, if possible, when sneezing.

Use a paper tissue or your sleeve and not your hand. Dispose of used tissues immediately.

Limit physical contact

Avoid handshakes, kisses and hugs.

Maintain at least 6 feet from all other persons when possible.

Keep clean

Regularly sanitize frequently touched and shared surfaces at home as well as at work.

Be considerate

Stay home whenever possible especially if you are experiencing symptoms.

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

SITE ACCESS RESTRICTIONS

SITE ACCESS IS PROHIBITED FOR THE FOLLOWING PERSONS DUE TO COVID-19 RISK

- **You are experiencing flu-like symptoms including but not limited to:**

  Fever or feeling feverish/chills, cough, sore throat, diarrhea, vomiting, runny or stuffy nose, muscle or body aches, headaches, fatigue (tiredness)

- **You have traveled to CDC-restricted destinations during the last 2 weeks:**

  China, South Korea, Iran, United Kingdom & Ireland, all European Union countries, Switzerland and regions within the U.S. for which public health agencies have prohibited travel

- **You had direct contact with a person diagnosed with COVID-19 or suspected of having COVID-19 during the last 2 weeks**

  Immediately notify NYSDEC site management.

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation