NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8
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June 28, 2023

Wayne County Regional Land Bank
Dr. Mark C. Humbert
16 William Street
Lyons, NY 14489

Re: Site Management (SM) Periodic Review Report (PRR) Response Letter

Rando Corporation, Macedon
Wayne County, Site No.: 859014

Dear Dr. Mark Humbert (as the Certifying Party):

The Department has reviewed your Periodic Review Report (PRR) and IC/EC Certification for following period: March 30, 2022, to March 30, 2023.

The Department hereby accepts the PRR and associated Certification. The frequency of Periodic Reviews for this site is 1 year(s), your next PRR is due on April 29, 2024. You will receive a reminder letter and updated certification form 75-days prior to the due date. Regardless of receipt or not, of the reminder notice, the next PRR including the signed certification form, is still due on the date specified above.

If you have any questions, or need additional forms, please contact me at 585-226-5357 or e-mail: joshuah.klier@dec.ny.gov.

Sincerely,

Joshuah J. Klier

Joshuah Klier
Project Manager

ec: Kaleigh Flynn, Wayne County Regional Land Bank
Dwight Harrienger, Stantec
Amanda Matkosky, Stantec
David Pratt, NYSDEC
Adam Morgan, NYSDEC
Mark Sergott, NYSDOH
Justin Deming, NYSDOH

2023 PERIODIC REVIEW REPORT 1071 NY-31, MACEDON, NEW YORK (FORMER RANDO MACHINE CORPORATION SITE)

NYSDEC SITE #859014
1071 NY-31
TOWN OF MACEDON
WAYNE COUNTY, NEW YORK

Prepared for:
New York State Department of
Environmental Conservation
625 Broadway, 12th Floor
Albany, New York

Prepared on behalf of:
Wayne County Regional
Land Bank Corporation
16 William Street
Lyons, New York 14489

Prepared by:
Stantec Consulting Services Inc.
61 Commercial Street, Suite 100
Rochester, New York 14614

April 2023

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CERTIFICATION STATEMENT

I, Dwight Harrienger of Stantec Consulting Services Inc., certify that I am currently a NYS registered professional engineer and that this Periodic Review Report for 1071 NY-31, Macedon, New York (Former Rando Machine Corporation) Site 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).

For each institutional or engineering control identified for the Site, I certify that all of the following statements are true:

- The inspection of the Site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction.
- The institutional control and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by NYSDEC.
- Nothing has occurred that would impair the ability of the control to protect the public health and environment.
- Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control.
- Access to the Site will continue to be provided to NYSDEC to evaluate the remedy, including access to evaluate the continued maintenance of this control.
- If a financial assurance mechanism is required under the oversight document for the Site, the mechanism remains valid and sufficient for the intended purpose under the document,
- Use of the Site is compliant with the environmental notice.
- The engineering control systems are performing as designed and are effective.
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the Site remedial program and generally-accepted engineering practices.
- The information presented in this report is accurate and complete.

Dwight Harrienger, P.E.

Date: 4/27/2023

Stantec

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Executive Summary

Stantec Consulting Services Inc. (Stantec) has prepared this Periodic Review Report (PRR) to document the Site Management activities conducted at the Former Rando Machine Corporation Site during the period of March 30, 2022 to March 30, 2023. The Former Rando Machine Corporation Site (the Site) is located at 1071 NY-31 in the Town of Macedon, Wayne County, New York.

The report was prepared on behalf of Wayne County Regional Land Bank Corporation to fulfill the PRR requirements of the Site Management Plan (SMP) for the Site. The SMP was instituted under the New York State Inactive Hazardous Waste Disposal Site Remedial Program administered by New York State Department of Environmental Conservation (NYSDEC). The Site is identified as NYSDEC Site Number 859014 and is a Class 4 Inactive Hazardous Waste Site. The SMP was approved by NYSDEC and implemented in December 2022.

PRR REPORTING VARIANCES

Groundwater Monitoring Program

This report includes a minor variance in the timeline of the groundwater monitoring event conducted at the Site on March 22, 2023. The event was scheduled to be completed during the first quarter of 2023 based on the last previous completed event occurring in the fourth quarter of 2021.

SITE SUMMARY

Description

The area occupied by the Site totals 5.01 acres. Rando Machine Corporation (Rando) previously operated this industrial and manufacturing facility located at 1071 NY-31, Macedon, New York. Land use in the surrounding area is primarily commercial properties and agricultural farmland.

Nature and Extent of Contamination

Groundwater at the Site remains contaminated with Emerging Contaminant 1,4-Dioxane related to Rando's former use of the chlorinated solvent 1,1,1-Trichloroethane (TCA) in the cleaning and painting process. Floor drains from the former TCA storage area discharged into a dry crock at the northeast corner of the Site building, releasing TCA, 1,1-Dichloroethane (1,1-DCA), 1,1-Dichloroethene (1,1-DCE), 1,2-Cichloroethane (1,2-DCA) and Chloroethane on the Site. Past remediation activities and results of groundwater sampling have shown that the chlorinated volatile organic compounds (VOCs) have decreased or degraded. The remaining groundwater contaminant analyzed during this reporting period as outlined in the SMP was 1,4-Dioxane, a common stabilizer for chlorinated solvents such as TCA and the likely source of 1,4-Dioxane on the Site. In the 2023 groundwater samples, 1,4-Dioxane was detected in

three of the five groundwater samples; however, no standards or guidance values are published for the compound at this time.

Remedial History

A remedial investigation was completed at the Site in 1993. The NYSDEC selected Alternative 1 (no further action) as the remedy for the Site as presented in the 1998 Record of Decision (ROD). As part of Alternative 1, periodic groundwater monitoring (semi-annual for five years and annual thereafter) would be conducted from selected groundwater monitoring wells. In addition, the remedy required administrative controls be placed on the Site property to restrict public access to contaminated groundwater.

The December 2022 SMP was approved by NYSDEC for the Site. It describes a series of institutional and engineering controls (IC/ECs) implemented for the Site and specifies requirements for post-remedial site inspections, groundwater monitoring, and operation and maintenance of the monitoring well network.

EFFECTIVENESS OF THE REMEDIAL PROGRAM

Groundwater

As indicated above, the only contaminant requiring continued groundwater analysis as outlined in the 2022 SMP is 1,4-Dioxane, which was detected in three of the five groundwater samples. 1,4-Dioxane was detected in groundwater samples collected from monitoring wells B103-OW-B, B206-OW-C, and B412-OW-D during the March 2023 sampling. All detections were only slightly above the detection limit except for B206-OW-C near the former dry crock discharge location, where the concentration of 1,4-Dioxane was 2 to 3 orders of magnitude above the surrounding wells.

The groundwater monitoring program results demonstrated that the remedy was effective during the reporting period. Groundwater monitoring results for 1,4-Dioxane indicated some variability with decreasing concentration at the source area well compared to the previous reporting period. Groundwater quality in downgradient areas exhibited continued improvement, but conditions were generally equivalent to or improved relative to those observed during the previous reporting period.

Soil Vapor Intrusion

During the reporting period, the facility remained vacant with no electrical service provided to the building. In accordance with the SMP, no testing of the sub-slab depressurization system (SSDS) occurred, and soil vapor intrusion (SVI) was not assessed. If plans for sale and/or re-occupancy of the building and the Site occur during the next reporting period, NYSDEC will be notified, and measures will be taken to inspect and assess the operation of the SSDS and SVI at the Site as identified in the approved 2022 SMP.

COMPLIANCE

Compliance with the SMP was achieved during the reporting period.

CONCLUSIONS

Emerging Contaminant 1,4-Dioxane was detected in three of the five groundwater samples. No standards or guidance values are published for the compound at this time. Based on the information presented in this PRR, the following conclusions are made regarding the concentration of this groundwater contaminant:

- 1,4-Dioxane was detected in three of the five monitoring wells.
- The highest concentration was detected at B206-OW-C, which is located adjacent to the former dry crock that was the discharge location of the TCA storage area floor drain.
- Site and groundwater use are consistent with the restrictions identified in the ROD.
- The remedy continued to be protective of human health and the environment during this reporting period.

List of Abbreviations

CCR	Construction Completion Report
DCA-1,1	1,1-Dichloroethane
DCA-1,2	1,2-Cichloroethane
DCE-1,1	1,1-Dichloroethene
DER	Division of Environmental Remediation
EC	Engineering Control
FS	Feasibility Study
IC	Institutional Control
M&M	Maintenance and Monitoring
NYCRR	New York Codes, Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
O&M	Operations and Maintenance
PRAP	Proposed Remedial Action Plan
PRP	Potentially Responsible Party
PRR	Periodic Review Report
QAPP	Quality Assurance Project Plan
Rando	Rando Machine Corporation
RI	Remedial Investigation
ROD	Record of Decision
RWP	Remedial Work Plan
SCO	Soil Cleanup Objective
SMP	Site Management Plan
SSDS	Sub-Slab Depressurization System
SVI	Soil Vapor Intrusion
TCA-1,1	1,1,1-Trichloroethane
µg/m^3	micrograms per cubic meter
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

1.0 SITE OVERVIEW

1.1 SITE DESCRIPTION

The Former Rando Machine Corporation (Rando) Site is located at 1071 NY-31 in the Town of Macedon, Wayne County, New York. A Site Location Map is presented on Figure 1. A figure showing the Site boundaries is provided in Figure 2.

The Site has a total area of 5.01 acres and is located in a 60-acre industrial park known as The Commons. The Site is occupied by a one-story, 35,000 square foot industrial structure built in 1975 that was previously used for manufacturing industrial machines. The remainder of the Site is a combination of pavement and grass areas.

Rando operated this industrial and manufacturing facility from approximately 1975 through September 2019. The manufactured and assembled machines were cleaned, painted, packaged, and shipped from the facility. The cleaning and painting process utilized the chlorinated solvent TCA, a chlorinated VOC. Between the time that operations began and the mid-1980s, floor drains from the TCA storage area reportedly drained into a buried container, called a dry crock, located immediately outside the northeast corner of the building. During past site operations, the contents of the dry crock were reportedly disposed of off-site.

The Site is bounded to the north by Penta-Tech Coated Products located at 1610 Commons Parkway. The Site is bounded to the south by commercial properties located at 1116 NY-31 and 1090 NY-31. The Site is bounded to the west by commercial properties located at 1059 NY-30 and 1607 Commercial Parkway. The Site is bounded to the east by agricultural farmland. A regulated Class III wetland is located approximately 0.25 miles north of the Site. The Erie Barge Canal is located approximately one mile north of the Site. Historically, the groundwater flow direction has been determined to be towards the north-northeast.

1.2 REMEDIAL PROGRAM DESCRIPTION

Environmental investigations were first conducted at the Rando Site after the New York State Department of Health (NYSDOH) found TCA in the Village of Macedon water supply wells in 1986. The NYSDEC conducted a preliminary investigation in 1987 and identified Rando as a potentially responsible party (PRP). Rando conducted a soil vapor survey in 1988 and a subsurface investigation in 1989, which identified the dry crock as the source of the TCA plume that extended eastward from the Site towards the Village's supply water wells. Rando conducted a voluntary source removal with oversight by the NYSDEC in 1989. The source area did not indicate any residual soil contamination following the soil excavation activities around the dry crock.

The results of these investigations were used as the basis for a remedial investigation (RI), which started in 1991. Rando's use of TCA in the cleaning and painting process and collection of drainage in a dry crock at the northeast corner of the Site building, appeared to be the root cause of the groundwater

contamination at the Site. RI field investigations continued through 1993 and confirmed that the dry crock was the source of the TCA contamination.

As shown on attached Figure 2, the source area is located in the central portion of the Site, immediately outside the northeast corner of the building, near the location of monitoring well B206-OW-C. The RI also determined that the VOC groundwater plume extended beyond the Site's eastern boundary and migrated towards the Village of Macedon wellfield.

A Feasibility Study (FS) was completed and approved, and a Proposed Remedial Action Plan (PRAP) was issued by the NYSDEC in 1995. Based on the Village of Macedon's decision to permanently discontinue the use of groundwater for a source of public water, Rando submitted an FS Addendum in 1996. The NYSDEC performed additional groundwater sampling in January of 1997, which showed groundwater contaminant levels had decreased. The ROD was subsequently issued by the NYSDEC in March 1998.

The NYSDEC selected Alternative 1 (no further action) as the remedy for the Site as presented in the 1998 ROD. As part of Alternative 1, periodic groundwater monitoring (semi-annual for five years and annual thereafter) would be conducted from selected groundwater monitoring wells. In addition, the remedy required administrative controls be placed on the Site property to restrict public access to contaminated groundwater.

A Maintenance and Monitoring Plan (M&M Plan) was prepared for the Site in July 1999. A Declarations of Covenants and Restrictions to restrict public access to contaminated groundwater was filed with Wayne County on December 23, 2009.

On April 1, 2013, an SSDS was installed beneath and encompassing the footprint of the building as outlined in Mitigation Tech's May 20, 2013, construction completion letter report (CCR). Based on a review of select correspondence between NYSDEC and Rando, it appears the SSDS was installed in lieu of evaluating the Site in accordance with the NYSDOH's "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" (2006). Although not included in the M&M Plan, this PRR has a section to perform evaluations and give recommendations for operations and maintenance in regard to the installed SSDS. It should be noted that since the building has remained vacant with no electrical service, the SSDS evaluation component of the SMP was not completed for reporting period, as indicated in the 2022 SMP.

1.3 SITE MANAGEMENT REQUIREMENTS

Site Management activities documented in this PRR were implemented in accordance with the requirements of the NYSDEC-approved SMP dated December 2022.

The SMP includes an Institutional and Engineering Control Plan (IC/EC Plan). Institutional Controls (ICs) and Engineering Controls (ECs) are required to protect human health and the environment given the existence of remaining contaminated groundwater beneath the Site.

Site Overview

The Site is managed as part of New York State's Superfund Program. The Site's inclusion in the Registry as a Class 4 Inactive Hazardous Waste Site acts as an IC. In addition, deed restrictions were filed with the Wayne County Clerk's office to restrict public access to groundwater in perpetuity.

ICs are required to: (1) implement, maintain, and monitor Engineering Control systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and (3) limit the use and development of the Site to "non-residential" uses only. The ICs are:

- Unless prior written approval by NYSDEC is first obtained, where contamination remains at the Site subject to the provisions of the SMP, there shall be no disturbance or excavation of the Site that threatens the Engineering Controls or that results or may result in an increased threat to human health or the environment as a result of exposure to groundwater or soil vapors;
- No person shall disturb, remove, or otherwise interfere with the installation, use, operation, and maintenance of Engineering Controls required for the remedy, including but not limited to the Engineering Controls described in the SMP, unless in each instance they first obtain a written waiver of such prohibition from NYSDEC;
- The remedy was designed to be protective for the following use: Commercial and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iii). Any use for purposes other than Commercial and Industrial is prohibited unless such prohibition is waived in writing by NYSDEC;
- No person shall use the groundwater underlying the Site without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless the user first obtains permission to do so from NYSDEC. Use of the groundwater without appropriate treatment may result in an increased threat to human health or the environment;
- The Site is subject to the Deed Restriction; it is a violation of 6 NYCRR 375-1.11(b) to use the Site in a manner inconsistent with the Deed Restriction;
- The Site shall be (and/or remain) registered in the Hazardous Waste Site Registry as Class 4, until declassification is approved by NYSDEC;
- The SMP shall be complied with by the Grantor and the Grantor's successors and assigns;
- All controls on the Site must be operated, maintained, and inspected at a frequency and in a manner defined in the SMP;
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP; and
- Data and information pertinent to the Site must be reported at the frequency and in a manner defined in the SMP.

ECs were not a component of the Site remedy presented in the ROD. An SSDS was installed by the owner of the Site in 2013. The sub-slab vacuum monitoring results from early 2020 indicated that the system was working effectively at the time of the previous inspection. The SSDS has remained offline due to building vacancy and lack of current electrical service to the building.

The SMP includes a Monitoring and Sampling Plan specifying the measures required for evaluating the overall performance and effectiveness of the remedy. The Monitoring and Sampling plan requires:

- that Site-wide inspection be performed annually and following severe weather events to determine and document whether ECs continue to perform as designed and be protective of human health and the environment; whether compliance with requirements of the SMP and the Environmental Easement has been maintained; whether remedial performance criteria have been achieved; whether Site records are complete and up to date; and whether changes in Site conditions have occurred that could affect vulnerability of the Site to the effects of extreme weather events.
- that groundwater sampling be performed annually or every 5th quarter to monitor Site groundwater.
- that an SSDS inspection and evaluation be performed annually if the building is occupied.

The Monitoring and Sampling Plan also requires that investigation-derived waste be managed in accordance with applicable guidance, laws, and regulations, that all sampling and analyses be performed in accordance with the requirements of the Quality Assurance Project Plan (QAPP) attached to the SMP, that forms and any other information generated during regular monitoring events and inspections be kept on file and submitted with each PRR, and that monitoring well inspections and sub-slab soil vapor sampling port inspections be performed during each respective monitoring event.

2.0 REMEDY PERFORMANCE AND EFFECTIVENESS

The performance and effectiveness of the remedy were evaluated based on the results of routine annual monitoring conducted during the reporting period and the annual Site-wide inspection.

2.1 GROUNDWATER MONITORING

As approved by NYSDEC in December 2022, the frequency of routine groundwater monitoring events for the Site is once every 5th calendar quarter. Since the last routine groundwater monitoring event was performed in November and December 2021, the next routine groundwater monitoring event was not due to be conducted until the 1st calendar quarter of 2023.

The current sampling program includes a total of five wells: B103-OW-A, B206-OW-B, B206-OW-C, B412-OW-D, and B412-OW-E. Stantec collected groundwater samples from each of the five monitoring wells utilizing USEPA low-flow sampling techniques. All nine groundwater samples were submitted to Eurofins Laboratory of Buffalo, New York (Eurofins), for analysis of 1,4-Dioxane by USEPA Method 8270D. Groundwater elevations across the site were observed to be relatively consistent with those measured during the November 2021 gauging and sampling event.

Groundwater monitoring program results are summarized on Tables 1 through 3. The groundwater monitoring network wells are shown on Figure 2. Appendix A presents detailed documentation of the field and laboratory analysis activities performed as part of the groundwater monitoring program.

The only contaminant analyzed during this reporting period in the groundwater was 1,4-Dioxane, which was detected in three of the five groundwater samples. 1,4-Dioxane was detected in groundwater samples collected from monitoring wells B103-OW-B, B206-OW-C, and B412-OW-D during the reporting period. All detections were only slightly above the detection limit except for B206-OW-C near the former dry crock discharge location, where the concentration of 1,4-Dioxane was 2 to 3 orders of magnitude above the surrounding wells.

The groundwater monitoring program results demonstrated that the remedy was effective during the reporting period. Groundwater monitoring results for 1,4-Dioxane indicated some variability with decreasing concentration at the source area well compared to the previous reporting period. Groundwater quality in downgradient areas exhibited continued improvement, but conditions were generally equivalent to or improved relative to those observed during the previous reporting period.

3.0 COMPLIANCE WITH THE IC/EC PLAN

During the reporting period, compliance with required ICs and ECs has been maintained.

- No disturbance of remaining contaminated material has occurred.
- No disturbance, removal, or modification to the ECs has occurred.
- Use of the Site has been limited to Commercial or Industrial uses, and the Site use has not changed during the reporting period.
- No groundwater use has occurred at the Site.
- The Deed Restriction remains in place at the Site.
- The Site remains in the Hazardous Waste Site Registry as Class 4.
- The SMP remains in compliance.
- Environmental monitoring activities and Site inspections have been performed in accordance with the SMP.

The Institutional and Engineering Controls Certification Form certifying the continued presence and effectiveness of the controls described above is presented in Appendix C.

4.0 COMPLIANCE WITH THE MONITORING & SAMPLING PLAN

During the reporting period, compliance with the Monitoring and Sampling Plan was maintained.

4.1 SITE-WIDE INSPECTION

A Site-wide inspection was performed in accordance with the applicable SMP requirements. The inspection was conducted outside of the regular reporting period on April 27, 2023 to allow for seasonal snowmelt and visibility of ground conditions. The Site inspection included an evaluation of the current Site and surrounding property uses, condition of the monitoring wells, access gates, roads, etc. Overall, the inspection revealed no unusual conditions and nothing requiring corrective action. There was also no new development in the surrounding properties/parcels noted. The inspection was documented on the form presented in Appendix B.

4.2 GROUNDWATER MONITORING

Groundwater monitoring was performed at the Site on March 22, 2023, and in accordance with SMP requirements for the groundwater monitoring programs.

A Site Plan showing the location of groundwater monitoring wells is presented on Figure 2. Laboratory analysis results for the samples collected during the reporting period are summarized on Table 1. Table 1 also summarizes previous groundwater sample analysis results for the Site going back to 2006. Table 2 presents a comprehensive summary of sampling methods and field parameter measurements for the reporting period. Table 3 presents a summary of groundwater level/elevation measurements recorded during the reporting period and the previous event. Detailed documentation of the field activities performed as part of the groundwater monitoring program is presented in Appendix A, including water level measurement, well inspection forms, and well purging and sampling records. Laboratory reports of sample analysis results are also presented in Appendix A.

Groundwater monitoring results for 1,4-Dioxane indicated continuation of the trend in improvement in groundwater quality that has been evident across the Site since completion of the remedial actions at the Site.

4.3 INVESTIGATION DERIVED WASTE

Purge water collected during the groundwater monitoring program showed no visual or olfactory indications of contamination and was discharged to the ground surface as outlined in the SMP.

4.4 SUB-SLAB DEPRESURIZATION SYSTEM INSPECTION

An evaluation of the sub-slab depressurization system (SSDS) was not performed during this reporting period as the Site building is unoccupied, and all utilities are shut down (including power to the SSDS). This is in keeping with the approved 2022 SMP.

CONCLUSIONS

Emerging Contaminant 1,4-Dioxane was detected in three of the five groundwater samples. No standards or guidance values are published for the compound at this time. Based on the information presented in this PRR, the following conclusions are made regarding the concentration of this groundwater contaminant:

- 1,4-Dioxane was detected in three of the five monitoring wells.
- The highest concentration was detected at B206-OW-C, which is located adjacent to the former dry crock that was the discharge location of the TCA storage area floor drain.
- Site and groundwater use are consistent with the restrictions identified in the ROD.
- The remedy continued to be protective of human health and the environment during this reporting period.

TABLES

Table 1
Summary of Analytical Results in Groundwater, 2006-2013
Rando Machine Corporation Site NYSDEC Site No. 859014
1071 NY-31, Macedon, New York 14502

Sample Location			B103-OW-A												RC-OW-A
Sample Date			21-Nov-06	6-Feb-08	7-Jul-09	17-Sep-10	8-Dec-11	7-Nov-12	12-Nov-15	28-Feb-17	27-Nov-17	30-Oct-19	20-Jan-21	1-Dec-21	22-Mar-23
Sample ID			B103-OW-A	B103-OW-A	B103-OW-A	B103-OW-A	B103-OW-A	B103-OW-A	B103-OW-A	B103-OW-A	B103-OW-A	B103-OW-A	B103-OW-A	B103-OW-A	RC-OW-A
Sampling Company			TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	STANTEC
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	ERF
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	480-207175-1
Sample Type	Units	TOGS													
1,4-Dioxane															
Dioxane, 1,4-	µg/L	n/v	-	-	-	-	-	-	-	-	-	<	0.13 J	<	<0.20
Volatile Organic Compounds															
Bromodichloromethane	µg/L	50[A]	<	<	<	<	<	<	<	<	<	<	<	-	-
Bromoform (Tribromomethane)	µg/L	50[A]	<	<	<	<	<	<	<	<	<	<	<	-	-
Bromomethane (Methyl bromide)	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Chloroethane (Ethyl Chloride)	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Chloroform (Trichloromethane)	µg/L	7[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Chloromethane	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Dibromochloromethane	µg/L	50[A]	<	<	<	<	<	<	<	<	<	<	<	-	-
Dichloroethane, 1,1-	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Dichloroethane, 1,2-	µg/L	0.6[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Dichloroethene, 1,1-	µg/L	5[B]	2.96	3.51	<	<	2.17	<	<	<	<	0.8 J	<	-	-
Dichloroethene, cis-1,2-	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Dichloropropane, 1,2-	µg/L	1[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Dichloropropene, cis-1,3-	µg/L	0.4[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Dichloropropene, trans-1,3-	µg/L	0.4[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Methylene Chloride (Dichloromethane)	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Tetrachloroethene (PCE)	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Trichloroethane, 1,1,1-	µg/L	5[B]	**20.8[B]**	**19.3[B]**	**12.9[B]**	**14.6[B]**	**15.1[B]**	**11.5[B]**	**9.94[B]**	**9.75[B]**	<	**7[B]**	<	-	-
Trichloroethane, 1,1,2-	µg/L	1[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Trichloroethene (TCE)	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Vinyl Chloride	µg/L	2[B]	<	<	<	<	<	<	<	<	<	<	<	-	-

See notes on last page.

Table 1
Summary of Analytical Results in Groundwater, 2006-2013
Rando Machine Corporation Site NYSDEC Site No. 859014
1071 NY-31, Macedon, New York 14502

Sample Location			B206-OW-B												RC-OW-B
Sample Date			21-Nov-06	6-Feb-08	7-Jul-09	17-Sep-10	8-Dec-11	7-Nov-12	12-Nov-15	28-Feb-17	27-Nov-17	30-Oct-19	20-Jan-21	30-Nov-21	22-Mar-23
Sample ID			B206-OW-B	B206-OW-B	B206-OW-B	B206-OW-B	B206-OW-B	B206-OW-B	B206-OW-B	B206-OW-B	B206-OW-B	B206-OW-B	B206-OW-B	B206-OW-B	RC-OW-B
Sampling Company			TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	STANTEC
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	ERF
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	480-207175-2
Sample Type	Units	TOGS													
1,4-Dioxane															
Dioxane, 1,4-	µg/L	n/v	-	-	-	-	-	-	-	-	-	0.35	0.096 J	0.35 B	0.25
Volatile Organic Compounds															
Bromodichloromethane	µg/L	50[A]	<	<	<	<	<	<	<	<	<	<	<	-	-
Bromoform (Tribromomethane)	µg/L	50[A]	<	<	<	<	<	<	<	<	<	<	<	-	-
Bromomethane (Methyl bromide)	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Chloroethane (Ethyl Chloride)	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Chloroform (Trichloromethane)	µg/L	7[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Chloromethane	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Dibromochloromethane	µg/L	50[A]	<	<	<	<	<	<	<	<	<	<	<	-	-
Dichloroethane, 1,1-	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Dichloroethane, 1,2-	µg/L	0.6[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Dichloroethene, 1,1-	µg/L	5[B]	2.24	3.23	<	<	2.05	<	<	<	<	1.2	0.83 J	-	-
Dichloroethene, cis-1,2-	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Dichloropropane, 1,2-	µg/L	1[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Dichloropropene, cis-1,3-	µg/L	0.4[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Dichloropropene, trans-1,3-	µg/L	0.4[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Methylene Chloride (Dichloromethane)	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Tetrachloroethene (PCE)	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	< F1_T	-	-
Trichloroethane, 1,1,1-	µg/L	5[B]	**18.8[B]**	**18.5[B]**	**13.4[B]**	**11.6[B]**	**15.6[B]**	**10.5[B]**	**10.9[B]**	**11.7[B]**	<	**9.7[B]**	**8.7[B]**	-	-
Trichloroethane, 1,1,2-	µg/L	1[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Trichloroethene (TCE)	µg/L	5[B]	2.16	2.49	<	3.45	2.39	2.21	<	<	<	1.6	1.8	-	-
Vinyl Chloride	µg/L	2[B]	<	<	<	<	<	<	<	<	<	<	<	-	-

See notes on last page.

Table 1
Summary of Analytical Results in Groundwater, 2006-2013
Rando Machine Corporation Site NYSDEC Site No. 859014
1071 NY-31, Macedon, New York 14502

Sample Location			B206-OW-C												RC-OW-C
Sample Date			21-Nov-06	6-Feb-08	7-Jul-09	17-Sep-10	8-Dec-11	7-Nov-12	12-Nov-15	28-Feb-17	27-Nov-17	30-Oct-19	30-Mar-21	30-Nov-21	22-Mar-23
Sample ID			B206-OW-C	B206-OW-C	B206-OW-C	B206-OW-C	B206-OW-C	B206-OW-C	B206-OW-C	B206-OW-C	B206-OW-C	B206-OW-C	B206-OW-C	B206-OW-C	RC-OW-C
Sampling Company			TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	TRC Engineers, Inc.	STANTEC
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	ERF
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	480-207175-3
Sample Type	Units	TOGS													
1,4-Dioxane															
Dioxane, 1,4-	µg/L	n/v	-	-	-	-	-	-	-	-	-	380 E	430 E	460 E B	320
Volatile Organic Compounds															
Bromodichloromethane	µg/L	50[A]	<	<	<	<	<	<	<	<	<	<	<	-	-
Bromoform (Tribromomethane)	µg/L	50[A]	<	<	<	<	<	<	<	<	<	<	<	-	-
Bromomethane (Methyl bromide)	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Chloroethane (Ethyl Chloride)	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	**10.7[B]**	-	-
Chloroform (Trichloromethane)	µg/L	7[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Chloromethane	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Dibromochloromethane	µg/L	50[A]	<	<	<	<	<	<	<	<	<	<	<	-	-
Dichloroethane, 1,1-	µg/L	5[B]	**27.1[B]**	**14.1[B]**	**11.6[B]**	**10.5[B]**	**12.2[B]**	**9.35[B]**	**10.7[B]**	**9.79[B]**	**13.8[B]**	**13[B]**	**10 F1_T[B]**	-	-
Dichloroethane, 1,2-	µg/L	0.6[B]	<	<	<	<	<	<	<	<	<	<	**1[B]**	-	-
Dichloroethene, 1,1-	µg/L	5[B]	**7.87[B]**	**9.33[B]**	**8.85[B]**	**5.25[B]**	**7.82[B]**	4.57	**6.58[B]**	**6.95[B]**	**8.56[B]**	**10[B]**	**9.9 F1_T[B]**	-	-
Dichloroethene, cis-1,2-	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Dichloropropane, 1,2-	µg/L	1[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Dichloropropene, cis-1,3-	µg/L	0.4[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Dichloropropene, trans-1,3-	µg/L	0.4[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Methylene Chloride (Dichloromethane)	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Tetrachloroethene (PCE)	µg/L	5[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Trichloroethane, 1,1,1-	µg/L	5[B]	**19[B]**	**14.9[B]**	**16.2[B]**	**9.22[B]**	**12.3[B]**	**6.57[B]**	**9.64[B]**	**7.89[B]**	<	**9.3[B]**	<	-	-
Trichloroethane, 1,1,2-	µg/L	1[B]	<	<	<	<	<	<	<	<	<	<	<	-	-
Trichloroethene (TCE)	µg/L	5[B]	<	<	<	<	<	<	<	<	<	1.6	1.3	-	-
Vinyl Chloride	µg/L	2[B]	<	<	<	<	<	<	<	<	<	<	<	-	-

See notes on last page.

Table 1
Summary of Analytical Results in Groundwater, 2006-2013
Rando Machine Corporation Site NYSDEC Site No. 859014
1071 NY-31, Macedon, New York 14502

Sample Location			B412-OW-D	RC-OW-D	B412-OW-E	RC-OW-E	
Sample Date			1-Dec-21	22-Mar-23	1-Dec-21	22-Mar-23	22-Mar-23
Sample ID			B412-OW-D	RC-OW-D	B412-OW-E	RC-OW-E	RC-OW-DUPE
Sampling Company			TRC Engineers, Inc.	STANTEC	TRC Engineers, Inc.	STANTEC	STANTEC
Laboratory			UNKNOWN	ERF	UNKNOWN	ERF	ERF
Laboratory Sample ID			UNKNOWN	480-207175-4	UNKNOWN	480-207175-5	480-207175-6
Sample Type	Units	TOGS					Field Duplicate
1,4-Dioxane							
Dioxane, 1,4-	µg/L	n/v	1.6 B	1.3	0.28 AVG B	<0.20	<0.20
Volatile Organic Compounds							
Bromodichloromethane	µg/L	50[A]	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	50[A]	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	5[--B]	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	-	-	-	-	-
Chloroethane (Ethyl Chloride)	µg/L	5[--B]	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	7[B]	-	-	-	-	-
Chloromethane	µg/L	5[--B]	-	-	-	-	-
Dibromochloromethane	µg/L	50[A]	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	5[--B]	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.6[B]	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	5[--B]	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	5[--B]	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	1[B]	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	0.4[p B]	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	0.4[p B]	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	5[--B]	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	5[--B]	-	-	-	-	-
Trichloroethane, 1,1,1-	µg/L	5[--B]	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	1[B]	-	-	-	-	-
Trichloroethene (TCE)	µg/L	5[--B]	-	-	-	-	-
Vinyl Chloride	µg/L	2[B]	-	-	-	-	-

Notes:

TOGS	NYSDEC TOGS 1.1.1 (Reissued June 1998 with errata in January 1999 and addenda in April 2000 and June 2004)
[A]	TOGS 1.1.1 - Table 1 - Ambient Water Quality Standards and Guidance Values, Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1); Guidance
[B]	TOGS 1.1.1 - Table 1 - Ambient Water Quality Standards and Guidance Values, Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1); Standards
6.5[A]	Concentration exceeds the indicated standard.
15.2	Measured concentration did not exceed the indicated standard.
<0.03	Analyte was not detected at a concentration greater than the laboratory reporting limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
--	The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in the TOGS table) applies to this substance.
p	Applies to the sum of cis- and trans-1,3-dichloropropene.
AVG	Averaged value
B	Indicates analyte was found in associated blank, as well as in the sample.
E	Result exceeded calibration range.
F1_T	MS and/or MSD recovery exceeds control limits.
J	The reported result is an estimated value.

Table 2
Summary of Groundwater Field Parameter Measurements
Rando Machine Corportation Site NYSDEC Site No. 859014
1071 NY-31, Macedon, New York 14502

Sample Location		**B103-OW-A**	**B206-OW-B**	**B206-OW-C**	**B412-OW-D**	**B412-OW-E**
Sample Date		March 22, 2023	March 22, 2023	March 22, 2023	March 22, 2023	March 22, 2023
Purge Methodology		Low Flow	Low Flow	Low Flow	Low Flow	Low Flow
Purge Method		Bladder Pump	Bladder Pump	Bladder Pump	Bailer	Bladder Pump
Sampling Method		Bladder Pump	Bladder Pump	Bladder Pump	Bailer	Bladder Pump
Field Parameters	**Units**					
Dissolved Oxygen	mg/L	7.58	6.55	4.09	-	9.11
Oxidation Reduction Potential	mV	111.0	92.0	26.6	-	120.1
pH	S.U.	8.56	7.75	7.48	-	7.61
Conductivity	mS/cm	0.452	0.473	0.612	-	0.411
Temperature	deg c	11.1	14.6	10.3	-	12.4
Turbidity	NTU	0.00	4.50	-	37.6	42.3

Notes:

-	not measured	mV	millivolts
deg c	degrees Celsius	NTU	nephelometric turbidity unit
mg/L	milligrams per liter	S.U.	standard units
mS/cm	milliSiemens per centimeter		

Table 3
Summary of Groundwater Level Measurement
Rando Machine Corportation Site NYSDEC Site No. 859014
1071 NY-31, Macedon, New York 14502

		November 30, 2021*			March 22, 2023		
Monitoring Well ID	**Top of Casing Elevation** (ft amsl)	**Depth to Water** (ft btoc)	**Water Table Elevation** (ft amsl)	**Depth to Bottom** (ft btoc)	**Depth to Water** (ft btoc)	**Water Table Elevation** (ft amsl)	**Depth to Bottom** (ft btoc)
B103-OW-A	501.98	16.12	485.86	58.70	14.75	487.23	58.10
B206-OW-B	504.46	18.65	485.81	35.00	19.53	484.93	35.22
B206-OW-C	504.35	19.5	484.85	26.60	19.30	485.05	26.30
B412-OW-D	500.78	18.72	482.06	32.20	17.90	482.88	32.50
B412-OW-E	503.31	24.75	478.56	28.45	23.67	479.64	28.50

Notes:

1. ft amsl = feet above mean sea level.

2. ft btoc = feet below top of casing.

***-**work conducted by TRC Engineers, Inc.

FIGURES

Legend

Approximate Property Boundary

0 2,000 4,000 Feet

N

(At original document size of 8.5x11)
1:24,000

Notes

1. Coordinate System: NAD 1983 2011 StatePlane New York Central FIPS 3102 Ft US
2. Data Sources:
3. Background: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Stantec

Project Location
1071 NYS Route 31
Macedon, Wayne County, New York

Prepared by APL on 2021-04-06
TR by AM on 2023-04-26
IR Review by DH on2023-04-26

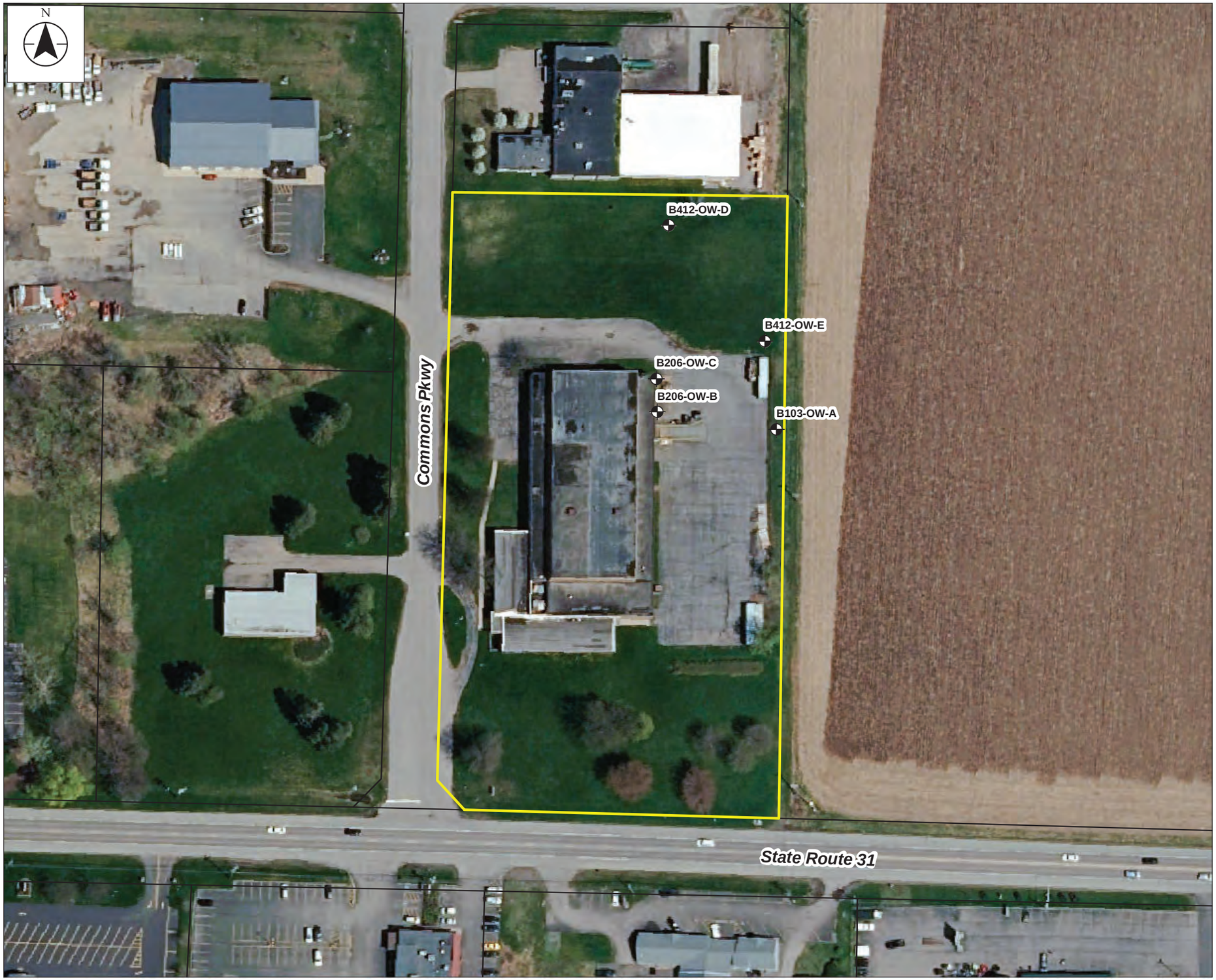
Client/Project 213414026

Periodic Review Report (PRR)
Former Rando Machine Corporation Site

Figure No.
1

Title

Site Location



Stantec

Legend

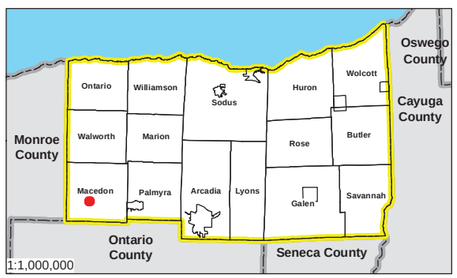
- Monitoring Wells
- Property Boundary
- 2019 Wayne CountyTax Parcels

0 100 200 Feet

(At original document size of 11x17)
1:1,200

Notes

1. Coordinate System: NAD 1983 UTM Zone 18N
2. Data Sources: NYS GIS Clearinghouse (see Data Sources documentation, with inventory).
3. The Sites shown were derived from Wayne County Brownfields Inventory – Methodology and Final Results (March 29, 2021) and the EPA Eligibility Determination process prepared by Stantec and approved by USEPA Region 2.
4. Source: TRC PRR March 2021-February 2022 Rando Machine Corporation Site, Monitoring Program, Macedon, New York 14502, NYSDEC Site No. 859014, Work Assignment No. D009812-11, Prepared for the NYSDEC April 2022.



Project Location
1071 NYS Route 31
Macedon, New York, 14502

Prepared by APL on 2023-04-07
TR by AM on 2023-04-26
IR Review by DH on 2023-04-26

Client/Project
Periodic Review Report (PRR)
Former Rando Machine Corporation Site
NYSDEC Site No. 859014

Figure No.
2

Title

Site Plan

APPENDIX A – GROUNDWATER MONITORING PROGRAM DOCUMENTATION

Stantec

DAILY FIELD ACTIVITY REPORT

Spring 2023 Groundwater Sampling & Site Inspection

Location: 1071 New York State Route 31, Macedon, New York
Project: 213404026.317.b
Date: March 22, 2023

Cloudy, 40's

PERSONNEL ON SITE: C. DeLuca and P. Suter and L. Best from 0800-1030

ARRIVAL 0742 DEPARTURE 1720

EQUIPMENT ON SITE: Company Van, GW sampling equipment

DESCRIPTION OF WORK PERFORMED AND OBSERVED:

Upon arrival, building appears vacant. There is a seemingly abandoned pickup truck with flat tires on the eastern edge of the parking lot.

PID calibration @0750 Stantec 2, 592-602468 ~~CAL: 7~~ (CD) passed, 100.3. 150 butylene lot # 304-402462448-1

Wells were locked with masterlocks and had to be opened using bolt cutters. Water level measurements were taken prior to sampling. Obstruction due to tubing at depth meant B412-OWD was purged 3 well volumes prior to sampling.

Building Inspection

All exterior doors were locked. Building entry was gained through bay door which was not locked. Up to 1" of standing water was present sporadically throughout warehouse but minimal standing water in office area. Warehouse roof was deteriorated to the extent that there was debris on the floor and water actively dripping from cracks/openings. There was no evidence of tampering within the building aside from faded graffiti on one wall in the North ~~East~~ West (CD) portion of the warehouse. The floor was slick in areas where water was pooling. Strong odor of mildew and mold present throughout. White fluffy material (maybe mold or precipitate) present around wet areas.

Stantec

Monitoring Well Gauge Form
RANDO MACHINE CORPORATION SITE
MACEDON, NEW YORK 14502
NYSDEC Site no 859014

Well ID	Inspection Date/Time	Water Level (ft btoic)	Comments/Repair Actions Required	Total Depth (ft)	PID	Well Volume (gal)
B206-OWB	3/22 0800	19.53	no cap (j-plug) marking on N, no label, soft bottom	35.22	0.0	2.56
B206-OWC	3/22 0810	19.30/19.31	j-plug present, solid tone 19.30, soft bottom	26.3	0.0	1.14
B412-OWD	3/22 0815	17.90/17.91	approx 2ft between stick-up and PVC riser, measurement taken from outer casing, soft bottom	82.5	0.0	2.38
B412-OWE	3/22 0820	23.67/23.675	survey marking @ NE, j-plug present, hard bottom	28.50	0.0	4.83
B103-OWA	3/22 0830	14.75/14.76	plug present, survey @ E, very soft bottom	58.10	0.0	7.06

= 7.14 gallons target vol. by bailer

Well Volume Calculation
1 inch = 0.041
2 inch = 0.163
4 inch = 0.653

* Master locks removed with bolt cutters on all riser casings

Stantec
61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: WC site 17 Rando Machine Corp
Well ID: B103-OWA
Depth to Water: 14.75 ft TOIC
Date: 3/22/23
Total Well Depth: 58.10 ft TOIC
Purge Start Time: 1535
Depth to Pump: ~30 ft TOIC
Purge End Time: 1605
Initial Pump Rate: 250 mL/min
Pump Type: bladder
adjusted to: 120 mL/min at 1545
Well Diameter: 2 inches
adjusted to: — mL/min at —
Well Volume: 7.06 gallons

Time	Purge Volume (gallons)	pH (s.u.) - ±0.1	ORP (mV) - ±10	Conductivity (mS/cm) - ±3%	Temp. (°C)	DO (mg/L) - ±10%	Turbidity (NTU) - ±10%	Water Level (ft)
1535	-	8.54	109.7	0.450	11.4	9.02	0.00	14.75
1540	0.05	8.61	109.5	0.450	11.6	8.64	0.00	14.78
1545	~~0.08~~ 0.1	8.62	110.0	0.450	11.8	8.04	0.00	14.75
1550	0.2	8.59	110.8	0.451	11.7	7.74	0.00	14.75
1555	0.4	8.59	110.9	0.451	11.3	7.70	0.00	14.75
1600	0.5	8.56	111.0	0.450	11.2	7.66	0.00	14.75
1605	0.6	8.56	111.0	0.452	11.1	7.58	0.00	14.75
Final Sample Data:		8.56	111.0	0.452	11.1	7.58	0.00	14.75

Sample ID(s): B103-OW-A
Sample Time: 1612
Sampler(s): P. Suter and C. DeLuca

Analyses:

	Dup?	MS/MSD?
☐ VOCs	☐	☐
☐ SVOCs	☐	☐
☐ PCBs	☐	☐
☐ Pesticides	☐	☐
☐ TAL Metals	☐	☐
☐ TOC	☐	☐
☐ Na^+	☐	☐
☐ Fe^{3+}, Mn^{2+}, As	☐	☐
☐ 1,4-Dioxane		

Equipment: see B206-OWC field form for equipment used on 3/22

Comments: due to lack of historical data, pump was placed at ~30 Ft btoic. Clear, no smell in middle of measured water column

Stantec

61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: WC Site 17 Rando Machine Corp
Well ID: B206-OW-B
Depth to Water: ~~19.53~~ (CD) ft TOIC ~~17.63~~ 17.55
Date: 3/22
Total Well Depth: 35.22 ft TOIC
Purge Start Time: ~~0955~~ (CD) 1042
Depth to Pump: ~33 ft TOIC
Purge End Time:
Initial Pump Rate: 200 mL/min
Pump Type: ~~bailer~~ 1" (CD)
adjusted to: 120 mL/min at 1043
Well Diameter: 2 inches
adjusted to: – mL/min at –
Well Volume: 2.56 gallons

Time	Purge Volume (gallons)	pH (s.u.) - ±0.1	ORP (mV) - ±10	Conductivity (mS/cm) - ±3%	Temp. (°C)	DO (mg/L) - ±10%	Turbidity (NTU) - ±10%	Water Level (ft)
1042	0.05	7.76	82.4	0.476	13.0	4.62	39.3	17.55
1047	0.10	7.71	82.8	0.475	13.6	4.38	26.3	17.58
1052	0.15	7.70	84.1	0.475	13.7	4.92	13.2	17.56
1057	0.20	7.69	85.6	0.474	13.9	5.30	10.65	17.56
1102	0.25	7.71	87.0	0.473	14.1	5.85	8.14	17.57
(CD) ~~1105~~ 1107	0.30	7.72	88.0	0.472	14.2	5.95	6.60	17.56
1112	0.35	7.73	89.2	0.473	14.3	6.17	5.98	17.55
1117	0.40	7.74	90.2	0.473	14.6	6.35	4.9	17.56
1122	0.45	7.74	91.2	0.473	14.6	6.53	4.82	17.53
1127	0.50	7.75	92.0	0.473	14.6	6.55	4.50	17.56
Final Sample Data:		7.75	92.0	0.473	14.6	6.55	4.50	17.56

Sample ID(s): RC-OW-B & MS/MSD
Sample Time: 1130
Sampler(s): P. Suter, C. Deluca

Analyses:	Dup?	MS/MSD?
☐ VOCs	☐	☐
☐ SVOCs	☐	☐
☐ PCBs	☐	☐
☐ Pesticides	☐	☐
☐ TAL Metals	☐	☐
☐ TOC	☐	☐
☐ Na^+	☐	☐
☐ Fe^{3+}, Mn^{2+}, As	☐	☐
☒ 1-4 Dioxane		☒

Equipment: See B206-OWC, same equipment used

Comments: No smell, very clear. MS/MSD taken due to ample well recharge

Stantec
61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: WC site 17 Rando Machine Corp
Well ID: B206-OWC
Depth to Water: 19.28 ft TOIC
Date: 3/22/23
Total Well Depth: 26.3 ft TOIC
Purge Start Time: 0917
Depth to Pump: ~24 ft TOIC
Purge End Time: 1020
Initial Pump Rate: 200 mL/min
Pump Type: bladder
adjusted to: 120 mL/min at 0923
Well Diameter: 2 inches
adjusted to: 100 mL/min at 0936
Well Volume: 1.141 gallons

Time	Purge Volume (gallons)	pH (s.u.) - ±0.1	ORP (mV) - ±10	Conductivity (mS/cm) - ±3%	Temp. (°C)	DO (mg/L) - ±10%	Turbidity (NTU) - ±10%	Water Level (ft)
0917	0.20	7.39	88.9	0.648	11.6	6.84	14.1	19.49
0922	0.40	7.42	70.6	0.635	11.2	7.66	5.98	19.75
0927	0.50	7.44	56.6	0.628	10.3	7.16	7.6	19.81
0932	0.70	7.47	53.2	0.622	10.5	6.72	7.73	19.89
0937	0.80	7.48	52.7	0.621	9.9	6.36	6.3	19.95
0942	0.85	7.46	50.8	0.613	10.4	5.81	2.99	20.01
0947	1.00	7.47	45.7	0.613	10.3	5.40	1.91	20.12
0952	1.10 CD	7.48	40.6	0.612	10.3	5.06	1.17	20.16
0957	1.20 CD	7.48	33.8	0.614	10.4	4.73	0.99	20.21
1002	1.24	7.48	30.4	0.615	10.0	4.64	1.3	20.32
1007	1.25	7.48	26.6	0.612	10.3	4.09	nm CD	20.37
Final Sample Data:		7.48	26.6	0.612	10.3	4.09	nm	20.37

Sample ID(s): RC-OW-C
Sample Time: ~~1008~~ CD 1010
Sampler(s): P. Suter, C. DeLuca, L. Best

Analyses:	Dup?	MS/MSD?
☐ VOCs	☐	☐
☐ SVOCs	☐	☐
☐ PCBs	☐	☐
☐ Pesticides	☐	☐
☐ TAL Metals	☐	☐
☐ TOC	☐	☐
☐ Na^+	☐	☐
☐ Fe^{3+}, Mn^{2+}, As	☐	☐
☒ 1-4, Dioxane		

Equipment: YSI FA01764, battery FA05261
air compressor - FA01650 WL (STN) 01-8845
~~pump FA3029~~
Comments: clear, no smell

\\us1275-f02\shared_projects\213414026\05_report_deliv\deliverables\reports\site-17_1071_NYS_Route_31_macedon\GW Sampling\March_2023\prep\Well Purge Form_BLANK_2022.xls

Stantec
61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: NC Site 17 Rands Machine Corp
Well ID: B4,2-OW-1)
Depth to Water: 17.91 ft ~~TOIC~~ CD TOOC
Date: 3/22/23
Total Well Depth: 32.5 ft TOIC
Purge Start Time: 1309
Depth to Pump: - ft TOIC
Purge End Time: 1440
Initial Pump Rate: - mL/min
Pump Type: purged w/ bailer
adjusted to: - mL/min at -
Well Diameter: 2 inches
adjusted to: - mL/min at -
Well Volume: 2.38 gallons

Time	Purge Volume (gallons)	pH (s.u.) - ±0.1	ORP (mV) - ±10	Conductivity (mS/cm) - ±3%	Temp. (°C)	DO (mg/L) - ±10%	Turbidity (NTU) - ±10%	Water Level (ft)
	7.25 gallons purged with bailer prior to sampling due							
	to obstruction (tubing in the well) preventing the use of							
	bladder pump.							
	Turbidity @1440 OVER range							
	Turbidity @1645 = 37.6 NTU							
	Water level " " = 25.7 ft.							
Final Sample Data:								

Sample ID(s): RC-OW-D
Sample Time: 1645
Sampler(s): P. Suter and C. DeLuca

Analyses:	Dup?	MS/MSD?
☐ VOCs	☐	☐
☐ SVOCs	☐	☐
☐ PCBs	☐	☐
☐ Pesticides	☐	☐
☐ TAL Metals	☐	☐
☐ TOC	☐	☐
☐ Na^+	☐	☐
☐ Fe^{3+}, Mn^{2+}, As	☐	☐
☐ 1,4-Dioxane		

Equipment: See B206-OW-C (Same equipment used)
Comments: Well very turbid, no odor
Purging took place 1309 to 1440.
Returned @ 1645 to collect samples

Stantec
61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: WC Site 17 Rando Machine Corp
Well ID: B412-OW-E
Depth to Water: 23.8 ft TOIC
Date: 3/22/2023
Total Well Depth: 28.50 ft TOIC
Purge Start Time: 1320
Depth to Pump: 25.0 ft TOIC
Purge End Time: 1505
Initial Pump Rate: 200 mL/min
Pump Type: Bladder
adjusted to: 120 mL/min at 1340
Well Diameter: 2 inches
adjusted to: 100 mL/min at 1435
Well Volume: 4.83 gallons

Time	Purge Volume (gallons)	pH (s.u.) - ±0.1	ORP (mV) - ±10	Conductivity (mS/cm) - ±3%	Temp. (°C)	DO (mg/L) - ±10%	Turbidity (NTU) - ±10%	Water Level (ft)
1325	0.25	7.69	102.7	0.460	13.4	7.37	OVERRANGE	23.75
1330	0.50	7.65	104.8	0.450	13.2	7.61	OVERRANGE	23.78
1335	0.70	7.61	108.9	0.426	13.1	8.62	OVERRANGE	23.78
1340	0.90	7.65	109.8	0.424	12.9	8.75	102.0	23.76
1345	1.00	7.61	110.4	0.421	12.9	8.73	84.9	23.78
1350	1.10	7.61	111.3	0.419	12.9	8.94	76.7	23.78
1355	1.20	7.60	112.5	0.419	12.7	8.90	74.8	23.78
1400	1.30	7.60	113.2	0.417	12.7	8.85	75.4	23.78
1405	1.40	7.61	114.1	0.417	12.7	8.83	63.2	23.78
1410	1.50	7.60	114.5	0.416	12.6	8.89	60.5	23.78
1415	1.60	7.60	115.2	0.414	12.5	9.06	56.2	23.78
1420	1.70	7.60	115.8	0.413	12.6	9.01	66.7	23.78
1425	1.80	7.59	115.5	0.411	12.8	9.02	56.0	23.78
1430	1.90	7.59	117.1	0.411	12.8	9.13	45.5	23.78
1435	2.00	7.59	117.3	0.411	12.9	8.94	56.8	23.78
Final Sample Data:		7.61	120.1	0.411	12.4	9.11	42.3	23.78

Sample ID(s): RC-OW-E, RC-OW-DUP2
Sample Time: 1506 1520
Sampler(s): P. Suter / C. Deluca

Analyses:	Dup?	MS/MSD?
☐ VOCs	☐	☐
☐ SVOCs	☐	☐
☐ PCBs	☐	☐
☐ Pesticides	☐	☐
☐ TAL Metals	☐	☐
☐ TOC	☐	☐
☐ Na^+	☐	☐
☐ Fe^{3+}, Mn^{2+}, As	☐	☐
☒ 1,4-Dioxane	☒	☐

Equipment: See B206-OW-C (same equipment used)
Comments: Purge water light-Brown, no odor

Stantec
61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: _____ Well ID: B412-OW-E

Depth to Water: _____ ft TOIC Date: _____

Total Well Depth: _____ ft TOIC Purge Start Time: _____

Depth to Pump: _____ ft TOIC Purge End Time: _____

Initial Pump Rate: _____ mL/min Pump Type: _____

adjusted to: _____ mL/min at _____ Well Diameter: _____ inches

adjusted to: _____ mL/min at _____ Well Volume: _____ gallons

See page 1

Time	Purge Volume (gallons)	pH (s.u.) - ±0.1	ORP (mV) - ±10	Conductivity (mS/cm) - ±3%	Temp. (°C)	DO (mg/L) - ±10%	Turbidity (NTU) - ±10%	Water Level (ft)
1440	2.10	7.59	118.2	0.411	13.1	9.10	51.5	23.78
1445	2.15	7.55	118.7	0.411	13.0	8.95	51.5	23.78
1450	2.2	7.60	118.7	0.412	12.7	9.16	45.8	23.78
1455	2.25	7.59	119.0	0.410	12.9	9.04	40.3	23.78
1500	2.30	7.60	119.6	0.412	12.6	9.06	41.5	23.78
1505	2.35	7.61	120.1	0.411	12.4	9.11	42.3	23.78
Final Sample Data:		7.61	120.1	0.411	12.4	9.11	42.3	23.78

Sample ID(s): ~~B412-OW-E~~ RC-OW-E & RC-OW-DUPE

Sample Time: 1506 ↑ 1320 ↑

See page 1

Sampler(s): _____

Analyses:	Dup?	MS/MSD?
☐ VOCs	☐	☐
☐ SVOCs	☐	☐
☐ PCBs	☐	☐
☐ Pesticides	☐	☐
☐ TAL Metals	☐	☐
☐ TOC	☐	☐
☐ Na^+	☐	☐
☐ Fe^{3+}, Mn^{2+}, As	☐	☐
☒ 1-4, Dioxane	☒	

Equipment: _____

Comments: _____

Eco-Rental Solutions

Calibration Certificate

rev 8/9/11

Work Order No.: SE-114650
Date of Service: 03/15/23
Order Time: 10:07:59 AM

Unit Under Test: YSI Pro Plus Quatro, 4m

Asset No.: FA01764 Technician Joshua Young Initials: JJ

Serial No: 14H102456

TEST	Specification	Result
Standard Calibration	Pass/Fail	Pass

TEST STANDARDS USED:

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
7.00 mS Conductivity Standard Solution	Lot No. 2GH026 Exp. 08/23	1
pH 7.00 Standard Solution	Lot No. 2GG042 Exp. 07/24	1
pH 10.00 Standard Solution	Lot No. 2GB707 Exp. 02/24	1
pH 4.00 Standard Solution	Lot No. 2GA766 Exp. 01/24	1
ORP Standard Solution	Lot No: 21H100747 exp. 09/02/2026	1

TEST EQUIPMENT USED:

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.

Eco-Rental Solutions

Accessory Checklist
YSI ProQuatro or Pro Plus Quatro

ASSET # 1764 **DATE** 03/15/2023 **TECHNICIAN** TY

STANDARD ACCESSORIES

- ☑ Hard Shipping Case
- ☑ Flow Cell with ¼", 3/8" Barbed Fittings, Quick Connect Fitting, O-Ring
- ☑ PFAS Free pipe fitting tape (GEO21150153)
- ☑ Flow Cell Manual (hardcopy)
- ☑ Quick Start Card
- ☑ Calibration Certificate
- ☑ Two Spare C Alkaline Batteries
- ☑ Calibration/ Storage Cup
- ☑ Sensor Guard
- ☑ pH Standards: 4.00, 7.00 and 10.00, Conductivity Standard: 7.00mS/cm, 125ml each
- ☑ DO membrane Kit
- ☑ Sensor Tool

ProQuatro ONLY

- ☐ User Manual (on flash-drive)
- ☐ Micro USB to Type A USB Jack Adapter Cable – for uploading data to Flash Drive

Pro Plus Quatro ONLY

- ☑ User Manual (hardcopy)
- ☑ Information & Support CD
- ☑ Communications Saddle & USB Cable

OPTIONAL ACCESSORIES (Additional cost may be applied)

- ☐ 3-Way Valve w/ ¼", 3/8" and ½" Barbed Fittings

QUANTITY	DESCRIPTION	LOT #
_____	ORP Standard, YSI 3682 Zobell Solution, 125ml	_____
_____	pH 4.00, 500ml	_____
_____	pH 7.00, 500ml	_____
_____	pH 10.00, 500ml	_____
_____	Conductivity Standard, 500ml	_____
_____	DO Zero Solution (Na2SO3), 500ml	_____

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Laura Best
Stantec Consulting Services Inc
61 Commercial Street
Suite100
Rochester NY 14614

Generated 4/3/2023 12:04 PM

JOB DESCRIPTION

Wayne County - Rando Corp. Site

JOB NUMBER

480-207175-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

Eurofins Buffalo

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Buffalo and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Buffalo Project Manager or designee who has signed this report.

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Authorization

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Authorized for release by
John Beninati, Project Manager
John.Beninati@et.eurofinsus.com
716 504-9874

Table of Contents

Table of Contents

Job Narrative
480-207175-1

Comments
No additional comments.

Receipt
The samples were received on 3/23/2023 10:00 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 3.7º C.

GC/MS Semi VOA
Method 8270D SIM ID: The following sample was diluted to bring the concentration of target analytes within the calibration range: RC-OW-C (480-207175-3). Elevated reporting limits (RLs) are provided.

Method 8270D SIM ID: The following sample required a dilution due to the abundance of target analytes: RC-OW-C (480-207175-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

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

Sample Summary

Client: Stantec Consulting Services Inc
Job ID: 480-207175-1
Project/Site: Wayne County - Rando Corp. Site

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-207175-1	RC-OW-A	Water	03/22/23 16:12	03/23/23 10:00
480-207175-2	RC-OW-B	Water	03/22/23 11:30	03/23/23 10:00
480-207175-3	RC-OW-C	Water	03/22/23 10:10	03/23/23 10:00
480-207175-4	RC-OW-D	Water	03/22/23 16:45	03/23/23 10:00
480-207175-5	RC-OW-E	Water	03/22/23 15:06	03/23/23 10:00
480-207175-6	RC-OW-DUPE	Water	03/22/23 15:20	03/23/23 10:00
480-207175-7	RC-OW-FB	Water	03/22/23 10:25	03/23/23 10:00

Detection Summary

Client: Stantec Consulting Services Inc
Job ID: 480-207175-1
Project/Site: Wayne County - Rando Corp. Site

Client Sample ID: RC-OW-A
Lab Sample ID: 480-207175-1

No Detections.

Client Sample ID: RC-OW-B
Lab Sample ID: 480-207175-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.25		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: RC-OW-C
Lab Sample ID: 480-207175-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	320		4.0	2.0	ug/L	20		8270D SIM ID	Total/NA

Client Sample ID: RC-OW-D
Lab Sample ID: 480-207175-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.3		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: RC-OW-E
Lab Sample ID: 480-207175-5

No Detections.

Client Sample ID: RC-OW-DUPE
Lab Sample ID: 480-207175-6

No Detections.

Client Sample ID: RC-OW-FB
Lab Sample ID: 480-207175-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.17	J	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Stantec Consulting Services Inc
Job ID: 480-207175-1
Project/Site: Wayne County - Rando Corp. Site

Method	Method Description	Protocol	Laboratory
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Client Sample ID: RC-OW-A
Lab Sample ID: 480-207175-1
Date Collected: 03/22/23 16:12
Matrix: Water
Date Received: 03/23/23 10:00

Method: SW846 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		0.20	0.10	ug/L		03/23/23 14:57	03/27/23 15:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*28*		*15 - 110*	*03/23/23 14:57*	*03/27/23 15:34*	*1*

Client Sample ID: RC-OW-B
Lab Sample ID: 480-207175-2
Date Collected: 03/22/23 11:30
Matrix: Water
Date Received: 03/23/23 10:00

Method: SW846 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	**0.25**		0.20	0.10	ug/L		03/23/23 14:57	03/27/23 14:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*33*		*15 - 110*	*03/23/23 14:57*	*03/27/23 14:01*	*1*

Client Sample ID: RC-OW-C
Lab Sample ID: 480-207175-3
Date Collected: 03/22/23 10:10
Matrix: Water
Date Received: 03/23/23 10:00

Method: SW846 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	**320**		4.0	2.0	ug/L		03/23/23 14:57	03/30/23 13:21	20

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*39*		*15 - 110*	*03/23/23 14:57*	*03/30/23 13:21*	*20*

Client Sample ID: RC-OW-D
Lab Sample ID: 480-207175-4
Date Collected: 03/22/23 16:45
Matrix: Water
Date Received: 03/23/23 10:00

Method: SW846 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	**1.3**		0.20	0.10	ug/L		03/23/23 14:57	03/27/23 16:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*32*		*15 - 110*	*03/23/23 14:57*	*03/27/23 16:20*	*1*

Client Sample ID: RC-OW-E
Lab Sample ID: 480-207175-5
Date Collected: 03/22/23 15:06
Matrix: Water
Date Received: 03/23/23 10:00

Method: SW846 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		0.20	0.10	ug/L		03/23/23 14:57	03/27/23 16:43	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*32*		*15 - 110*	*03/23/23 14:57*	*03/27/23 16:43*	*1*

Client Sample ID: RC-OW-DUPE
Lab Sample ID: 480-207175-6
Date Collected: 03/22/23 15:20
Matrix: Water
Date Received: 03/23/23 10:00

Method: SW846 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		0.20	0.10	ug/L		03/23/23 14:57	03/27/23 17:06	1

Client Sample ID: RC-OW-DUPE
Lab Sample ID: 480-207175-6

Date Collected: 03/22/23 15:20
Matrix: Water
Date Received: 03/23/23 10:00

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*37*		*15 - 110*	*03/23/23 14:57*	*03/27/23 17:06*	*1*

Client Sample ID: RC-OW-FB
Lab Sample ID: 480-207175-7

Date Collected: 03/22/23 10:25
Matrix: Water
Date Received: 03/23/23 10:00

Method: SW846 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	**0.17**	**J**	0.20	0.10	ug/L		03/23/23 14:57	03/27/23 17:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*35*		*15 - 110*	*03/23/23 14:57*	*03/27/23 17:29*	*1*

Isotope Dilution Summary

Client: Stantec Consulting Services Inc
Job ID: 480-207175-1
Project/Site: Wayne County - Rando Corp. Site

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DXE (15-110)							
480-207175-1	RC-OW-A	28							
480-207175-2	RC-OW-B	33							
480-207175-2 MS	RC-OW-B-MS	29							
480-207175-2 MSD	RC-OW-B-MSD	33							
480-207175-3	RC-OW-C	39							
480-207175-4	RC-OW-D	32							
480-207175-5	RC-OW-E	32							
480-207175-6	RC-OW-DUPE	37							
480-207175-7	RC-OW-FB	35							
LCS 480-662596/2-A	Lab Control Sample	35							
MB 480-662596/1-A	Method Blank	33							

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-662596/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 662912
Prep Batch: 662596

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		03/23/23 14:57	03/27/23 12:27	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*33*		*15 - 110*	*03/23/23 14:57*	*03/27/23 12:27*	*1*

Lab Sample ID: LCS 480-662596/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 662912
Prep Batch: 662596

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			2.00	2.08		ug/L		104	40 - 140		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*35*		*15 - 110*

Lab Sample ID: 480-207175-2 MS
Client Sample ID: RC-OW-B-MS
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 662912
Prep Batch: 662596

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane	0.25		2.00	2.27		ug/L		101	40 - 140		

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
1,4-Dioxane-d8	*29*		*15 - 110*

Lab Sample ID: 480-207175-2 MSD
Client Sample ID: RC-OW-B-MSD
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 662912
Prep Batch: 662596

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	0.25		2.00	2.25		ug/L		100	40 - 140	1	20

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,4-Dioxane-d8	*33*		*15 - 110*

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
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)
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

GC/MS Semi VOA

Prep Batch: 662596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207175-1	RC-OW-A	Total/NA	Water	3510C	
480-207175-2	RC-OW-B	Total/NA	Water	3510C	
480-207175-3	RC-OW-C	Total/NA	Water	3510C	
480-207175-4	RC-OW-D	Total/NA	Water	3510C	
480-207175-5	RC-OW-E	Total/NA	Water	3510C	
480-207175-6	RC-OW-DUPE	Total/NA	Water	3510C	
480-207175-7	RC-OW-FB	Total/NA	Water	3510C	
MB 480-662596/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-662596/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-207175-2 MS	RC-OW-B-MS	Total/NA	Water	3510C	
480-207175-2 MSD	RC-OW-B-MSD	Total/NA	Water	3510C	

Analysis Batch: 662912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207175-1	RC-OW-A	Total/NA	Water	8270D SIM ID	662596
480-207175-2	RC-OW-B	Total/NA	Water	8270D SIM ID	662596
480-207175-4	RC-OW-D	Total/NA	Water	8270D SIM ID	662596
480-207175-5	RC-OW-E	Total/NA	Water	8270D SIM ID	662596
480-207175-6	RC-OW-DUPE	Total/NA	Water	8270D SIM ID	662596
480-207175-7	RC-OW-FB	Total/NA	Water	8270D SIM ID	662596
MB 480-662596/1-A	Method Blank	Total/NA	Water	8270D SIM ID	662596
LCS 480-662596/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	662596
480-207175-2 MS	RC-OW-B-MS	Total/NA	Water	8270D SIM ID	662596
480-207175-2 MSD	RC-OW-B-MSD	Total/NA	Water	8270D SIM ID	662596

Analysis Batch: 663299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207175-3	RC-OW-C	Total/NA	Water	8270D SIM ID	662596

Lab Chronicle

Client: Stantec Consulting Services Inc
Job ID: 480-207175-1
Project/Site: Wayne County - Rando Corp. Site

Client Sample ID: RC-OW-A
Lab Sample ID: 480-207175-1
Date Collected: 03/22/23 16:12
Matrix: Water
Date Received: 03/23/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			662596	LSC	EET BUF	03/23/23 14:57
Total/NA	Analysis	8270D SIM ID		1	662912	RJS	EET BUF	03/27/23 15:34

Client Sample ID: RC-OW-B
Lab Sample ID: 480-207175-2
Date Collected: 03/22/23 11:30
Matrix: Water
Date Received: 03/23/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			662596	LSC	EET BUF	03/23/23 14:57
Total/NA	Analysis	8270D SIM ID		1	662912	RJS	EET BUF	03/27/23 14:01

Client Sample ID: RC-OW-C
Lab Sample ID: 480-207175-3
Date Collected: 03/22/23 10:10
Matrix: Water
Date Received: 03/23/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			662596	LSC	EET BUF	03/23/23 14:57
Total/NA	Analysis	8270D SIM ID		20	663299	JMM	EET BUF	03/30/23 13:21

Client Sample ID: RC-OW-D
Lab Sample ID: 480-207175-4
Date Collected: 03/22/23 16:45
Matrix: Water
Date Received: 03/23/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			662596	LSC	EET BUF	03/23/23 14:57
Total/NA	Analysis	8270D SIM ID		1	662912	RJS	EET BUF	03/27/23 16:20

Client Sample ID: RC-OW-E
Lab Sample ID: 480-207175-5
Date Collected: 03/22/23 15:06
Matrix: Water
Date Received: 03/23/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			662596	LSC	EET BUF	03/23/23 14:57
Total/NA	Analysis	8270D SIM ID		1	662912	RJS	EET BUF	03/27/23 16:43

Client Sample ID: RC-OW-DUPE
Lab Sample ID: 480-207175-6
Date Collected: 03/22/23 15:20
Matrix: Water
Date Received: 03/23/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			662596	LSC	EET BUF	03/23/23 14:57
Total/NA	Analysis	8270D SIM ID		1	662912	RJS	EET BUF	03/27/23 17:06

Lab Chronicle

Client: Stantec Consulting Services Inc
Job ID: 480-207175-1
Project/Site: Wayne County - Rando Corp. Site

Client Sample ID: RC-OW-FB
Lab Sample ID: 480-207175-7

Date Collected: 03/22/23 10:25
Matrix: Water
Date Received: 03/23/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			662596	LSC	EET BUF	03/23/23 14:57
Total/NA	Analysis	8270D SIM ID		1	662912	RJS	EET BUF	03/27/23 17:29

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 480-207175-1
Project/Site: Wayne County - Rando Corp. Site

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

Method 8270D SIM-ID

Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RXI-5Sil MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DXE #
RC-OW-A	480-207175-1	28
RC-OW-B	480-207175-2	33
RC-OW-C	480-207175-3	39
RC-OW-D	480-207175-4	32
RC-OW-E	480-207175-5	32
RC-OW-DUPE	480-207175-6	37
RC-OW-FB	480-207175-7	35
	MB 480-662596/1-A	33
	LCS 480-662596/2-A	35
RC-OW-B-MS MS	480-207175-2 MS	29
RC-OW-B-MSD MSD	480-207175-2 MSD	33

	QC LIMITS
DXE = 1,4-Dioxane-d8	15-110

Column to be used to flag recovery values

FORM II 8270D SIM ID

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Matrix: Water Level: Low Lab File ID: U0000001037.d

Lab ID: LCS 480-662596/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	2.00	2.08	104	40-140	
1,4-Dioxane-d8	20.0	7.02	35	15-110	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Matrix: Water Level: Low Lab File ID: U0000001038.d

Lab ID: 480-207175-2 MS Client ID: RC-OW-B-MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,4-Dioxane	2.00	0.25	2.27	101	40-140	
1,4-Dioxane-d8	20.0	6.6	5.83	29	15-110	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Matrix: Water Level: Low Lab File ID: U0000001039.d

Lab ID: 480-207175-2 MSD Client ID: RC-OW-B-MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,4-Dioxane	2.00	2.25	100	1	20	40-140	
1,4-Dioxane-d8	20.0	6.68	33			15-110	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Lab File ID: U0000001036.d Lab Sample ID: MB 480-662596/1-A

Matrix: Water Date Extracted: 03/23/2023 14:57

Instrument ID: HP5973U Date Analyzed: 03/27/2023 12:27

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-662596/2-A	U0000001037.d	03/27/2023 12:51
RC-OW-B-MS MS	480-207175-2 MS	U0000001038.d	03/27/2023 13:14
RC-OW-B-MSD MSD	480-207175-2 MSD	U0000001039.d	03/27/2023 13:38
RC-OW-B	480-207175-2	U0000001040.d	03/27/2023 14:01
RC-OW-A	480-207175-1	U0000001044.d	03/27/2023 15:34
RC-OW-D	480-207175-4	U0000001046.d	03/27/2023 16:20
RC-OW-E	480-207175-5	U0000001047.d	03/27/2023 16:43
RC-OW-DUPE	480-207175-6	U0000001048.d	03/27/2023 17:06
RC-OW-FB	480-207175-7	U0000001049.d	03/27/2023 17:29
RC-OW-C	480-207175-3	U0000001066.d	03/30/2023 13:21

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Lab File ID: U0000000431.d DFTPP Injection Date: 01/11/2023

Instrument ID: HP5973U DFTPP Injection Time: 10:14

Analysis Batch No.: 655648

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	27.7	
68	Less than 2% of mass 69	0.0	(0.1) 1
69	Mass 69 Relative abundance	30.2	
70	Less than 2% of mass 69	0.1	(0.5) 1
127	10-80% of Base Peak	40.2	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.7	
275	10-60% of Base Peak	29.4	
365	Greater than 1% of mass 198	4.1	
441	present but less than 24% of mass 442	17.8	(14.3) 2
442	Greater than 50% of mass 198	124.5	
443	15-24% of mass 442	23.3	(18.7) 2

1-Value is % mass 69 2-Value is % mass 442

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 480-655648/3	U0000000432.d	01/11/2023	10:44
	IC 480-655648/4	U0000000433.d	01/11/2023	11:06
	IC 480-655648/5	U0000000434.d	01/11/2023	11:27
	ICIS 480-655648/6	U0000000435.d	01/11/2023	11:50
	IC 480-655648/7	U0000000436.d	01/11/2023	12:12
	IC 480-655648/8	U0000000437.d	01/11/2023	12:35
	ICV 480-655648/9	U0000000438.d	01/11/2023	12:58

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Lab File ID: U0000001034.d DFTPP Injection Date: 03/27/2023

Instrument ID: HP5973U DFTPP Injection Time: 11:32

Analysis Batch No.: 662912

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	30.1	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	32.4	
70	Less than 2% of mass 69	0.1	(0.5) 1
127	10-80% of Base Peak	42.7	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.8	
275	10-60% of Base Peak	29.3	
365	Greater than 1% of mass 198	4.1	
441	present but less than 24% of mass 442	16.2	(14.5) 2
442	Greater than 50% of mass 198	111.9	
443	15-24% of mass 442	21.4	(19.1) 2

1-Value is % mass 69 2-Value is % mass 442

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 480-662912/3	U0000001035.d	03/27/2023	12:04
	MB 480-662596/1-A	U0000001036.d	03/27/2023	12:27
	LCS 480-662596/2-A	U0000001037.d	03/27/2023	12:51
RC-OW-B-MS MS	480-207175-2 MS	U0000001038.d	03/27/2023	13:14
RC-OW-B-MSD MSD	480-207175-2 MSD	U0000001039.d	03/27/2023	13:38
RC-OW-B	480-207175-2	U0000001040.d	03/27/2023	14:01
RC-OW-A	480-207175-1	U0000001044.d	03/27/2023	15:34
RC-OW-D	480-207175-4	U0000001046.d	03/27/2023	16:20
RC-OW-E	480-207175-5	U0000001047.d	03/27/2023	16:43
RC-OW-DUPE	480-207175-6	U0000001048.d	03/27/2023	17:06
RC-OW-FB	480-207175-7	U0000001049.d	03/27/2023	17:29

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Lab File ID: U0000001064.d DFTPP Injection Date: 03/30/2023

Instrument ID: HP5973U DFTPP Injection Time: 12:26

Analysis Batch No.: 663299

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	29.0	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	31.6	
70	Less than 2% of mass 69	0.2	(0.6) 1
127	10-80% of Base Peak	42.1	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.7	
275	10-60% of Base Peak	29.2	
365	Greater than 1% of mass 198	4.2	
441	present but less than 24% of mass 442	17.5	(14.8) 2
442	Greater than 50% of mass 198	117.8	
443	15-24% of mass 442	22.9	(19.4) 2

1-Value is % mass 69 2-Value is % mass 442

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 480-663299/3	U0000001065.d	03/30/2023	12:58
RC-OW-C	480-207175-3	U0000001066.d	03/30/2023	13:21

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Sample No.: ICIS 480-655648/6 Date Analyzed: 01/11/2023 11:50

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U0000000435.d Heated Purge: (Y/N) N

Calibration ID: 44407

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		692887	6.21				
UPPER LIMIT		1385774	6.71				
LOWER LIMIT		346444	5.71				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-655648/9		712909	6.21				
CCVIS 480-662912/3		466576	6.20				
CCVIS 480-663299/3		465249	6.20				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Sample No.: CCVIS 480-662912/3 Date Analyzed: 03/27/2023 12:04

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U0000001035.d Heated Purge: (Y/N) N

Calibration ID: 44407

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		466576	6.20				
UPPER LIMIT		933152	6.70				
LOWER LIMIT		233288	5.70				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-662596/1-A		447415	6.20				
LCS 480-662596/2-A		439477	6.20				
480-207175-2 MS	RC-OW-B-MS MS	462442	6.20				
480-207175-2 MSD	RC-OW-B-MSD MSD	428379	6.20				
480-207175-2	RC-OW-B	465348	6.20				
480-207175-1	RC-OW-A	450688	6.20				
480-207175-4	RC-OW-D	446280	6.20				
480-207175-5	RC-OW-E	450981	6.20				
480-207175-6	RC-OW-DUPE	421794	6.20				
480-207175-7	RC-OW-FB	461674	6.20				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Sample No.: CCVIS 480-663299/3 Date Analyzed: 03/30/2023 12:58

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U0000001065.d Heated Purge: (Y/N) N

Calibration ID: 44407

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		465249	6.20				
UPPER LIMIT		930498	6.70				
LOWER LIMIT		232625	5.70				
LAB SAMPLE ID	CLIENT SAMPLE ID						
480-207175-3	RC-OW-C	480260	6.20				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207175-1

SDG No.:

Client Sample ID: RC-OW-A | Lab Sample ID: 480-207175-1

Matrix: Water | Lab File ID: U0000001044.d

Analysis Method: 8270D SIM ID | Date Collected: 03/22/2023 16:12

Extract. Method: 3510C | Date Extracted: 03/23/2023 14:57

Sample wt/vol: 250(mL) | Date Analyzed: 03/27/2023 15:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 662912 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	28		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001044.d
Lims ID: 480-207175-A-1-A
Client ID: RC-OW-A
Sample Type: Client
Inject. Date: 27-Mar-2023 15:34:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 12
Operator ID: JM Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 28-Mar-2023 10:09:37 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1650

First Level Reviewer: O0RH Date: 28-Mar-2023 10:08:13

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D	1 1,4-Dioxane-d8	96	3.260	3.252	0.008	100	86138	1.40	28.0	
	3 1,4-Dioxane	88		3.297				ND		
*	2 1,4-Dichlorobenzene-d4	152	6.197	6.198	-0.001	100	450688	4.00		

QC Flag Legend

Processing Flags

Reagents:

MB_LLIS_WRK_00250 Amount Added: 20.00 Units: uL Run Reagent

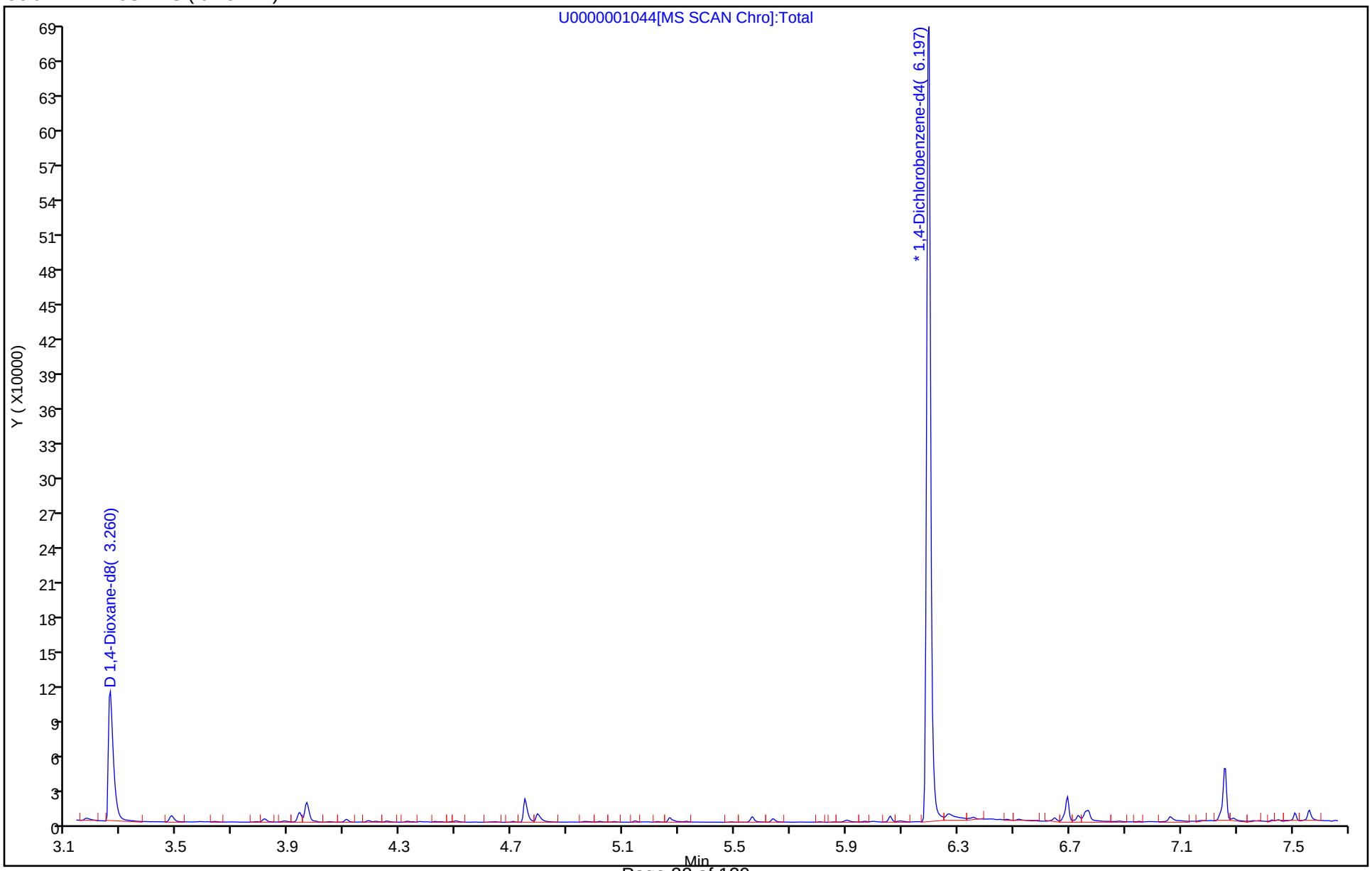
Report Date: 28-Mar-2023 10:09:43 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001044.d

Injection Date:	27-Mar-2023 15:34:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	480-207175-A-1-A	Lab Sample ID:	480-207175-1	Worklist Smp#:	12
Client ID:	RC-OW-A				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



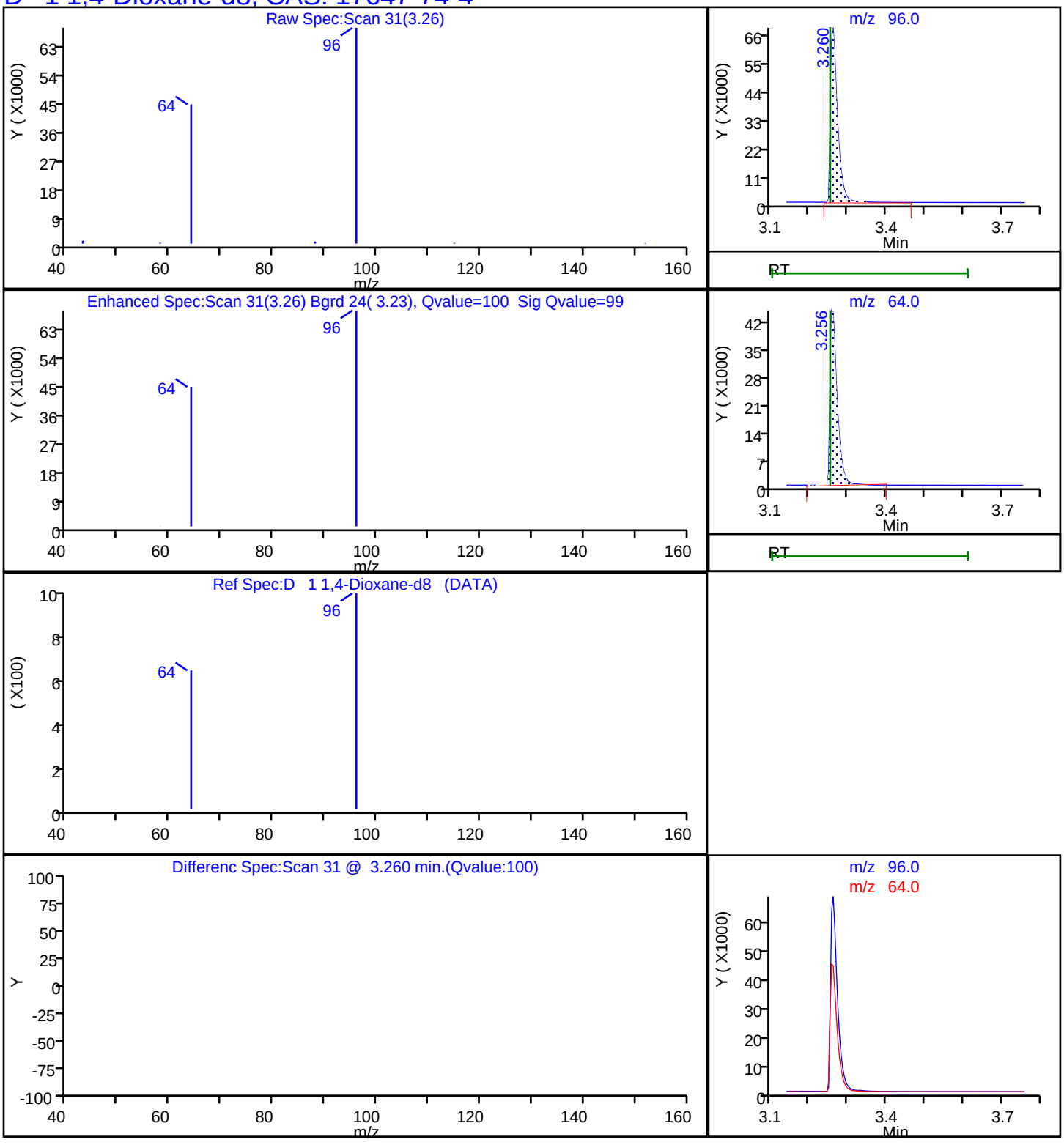
Report Date: 28-Mar-2023 10:09:43 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001044.d

Injection Date:	27-Mar-2023 15:34:30	Instrument ID:	HP5973U		
Lims ID:	480-207175-A-1-A	Lab Sample ID:	480-207175-1		
Client ID:	RC-OW-A				
Operator ID:	JM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207175-1

SDG No.:

Client Sample ID: RC-OW-B | Lab Sample ID: 480-207175-2

Matrix: Water | Lab File ID: U0000001040.d

Analysis Method: 8270D SIM ID | Date Collected: 03/22/2023 11:30

Extract. Method: 3510C | Date Extracted: 03/23/2023 14:57

Sample wt/vol: 250(mL) | Date Analyzed: 03/27/2023 14:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 662912 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.25		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	33		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001040.d
Lims ID: 480-207175-B-2-C
Client ID: RC-OW-B
Sample Type: Client
Inject. Date: 27-Mar-2023 14:01:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 8
Operator ID: JM Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 28-Mar-2023 10:09:37 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1650

First Level Reviewer: O0RH Date: 28-Mar-2023 10:08:04

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D	1 1,4-Dioxane-d8	96	3.260	3.252	0.008	100	105467	1.66	33.2	
	3 1,4-Dioxane	88	3.313	3.297	0.016	66	1476	0.0618		
*	2 1,4-Dichlorobenzene-d4	152	6.198	6.198	0.000	100	465348	4.00		

QC Flag Legend
Processing Flags

Reagents:
MB_LLIS_WRK_00250 Amount Added: 20.00 Units: uL Run Reagent

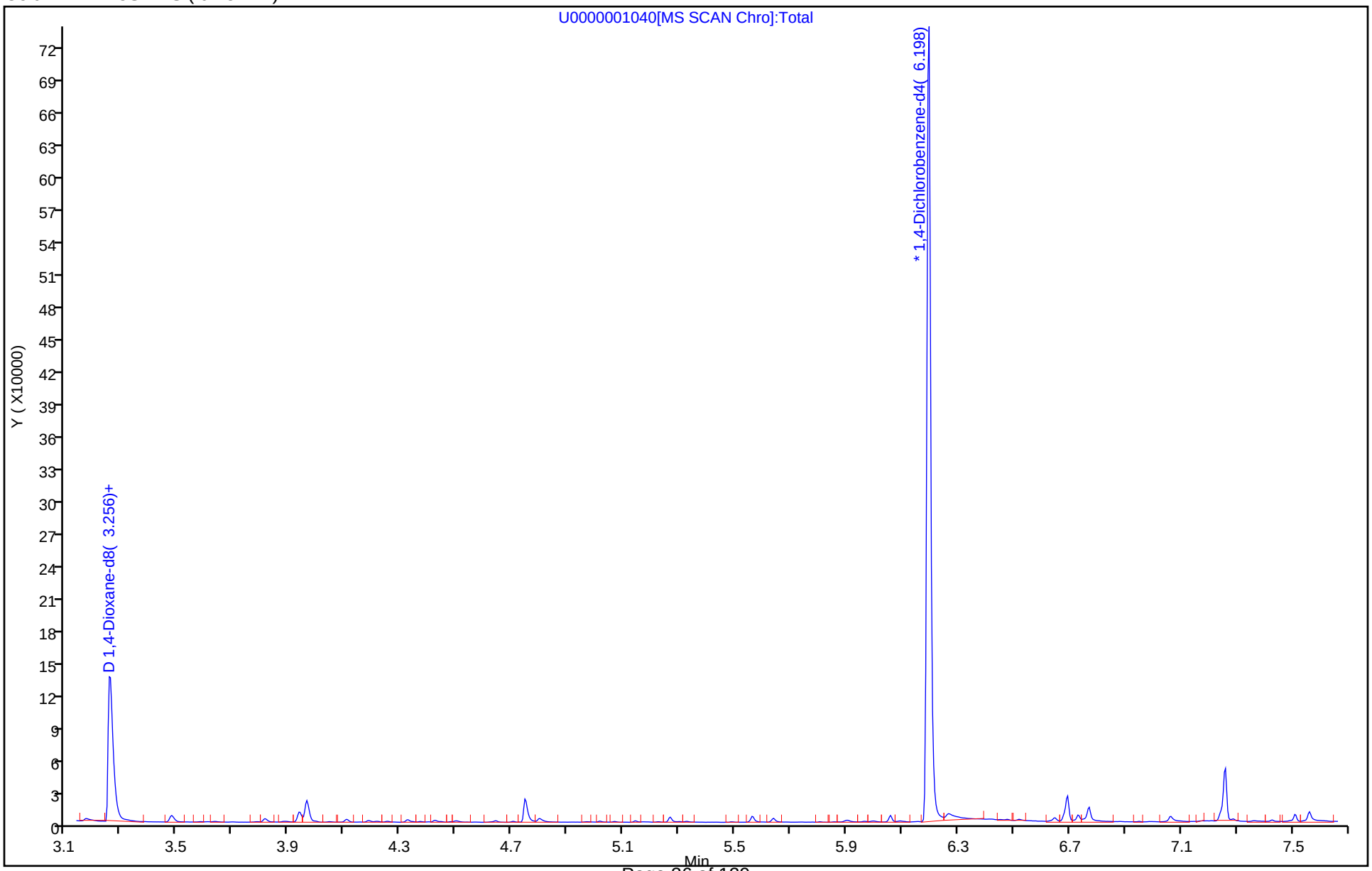
Report Date: 28-Mar-2023 10:09:40 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001040.d

Injection Date:	27-Mar-2023 14:01:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	480-207175-B-2-C	Lab Sample ID:	480-207175-2	Worklist Smp#:	8
Client ID:	RC-OW-B				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



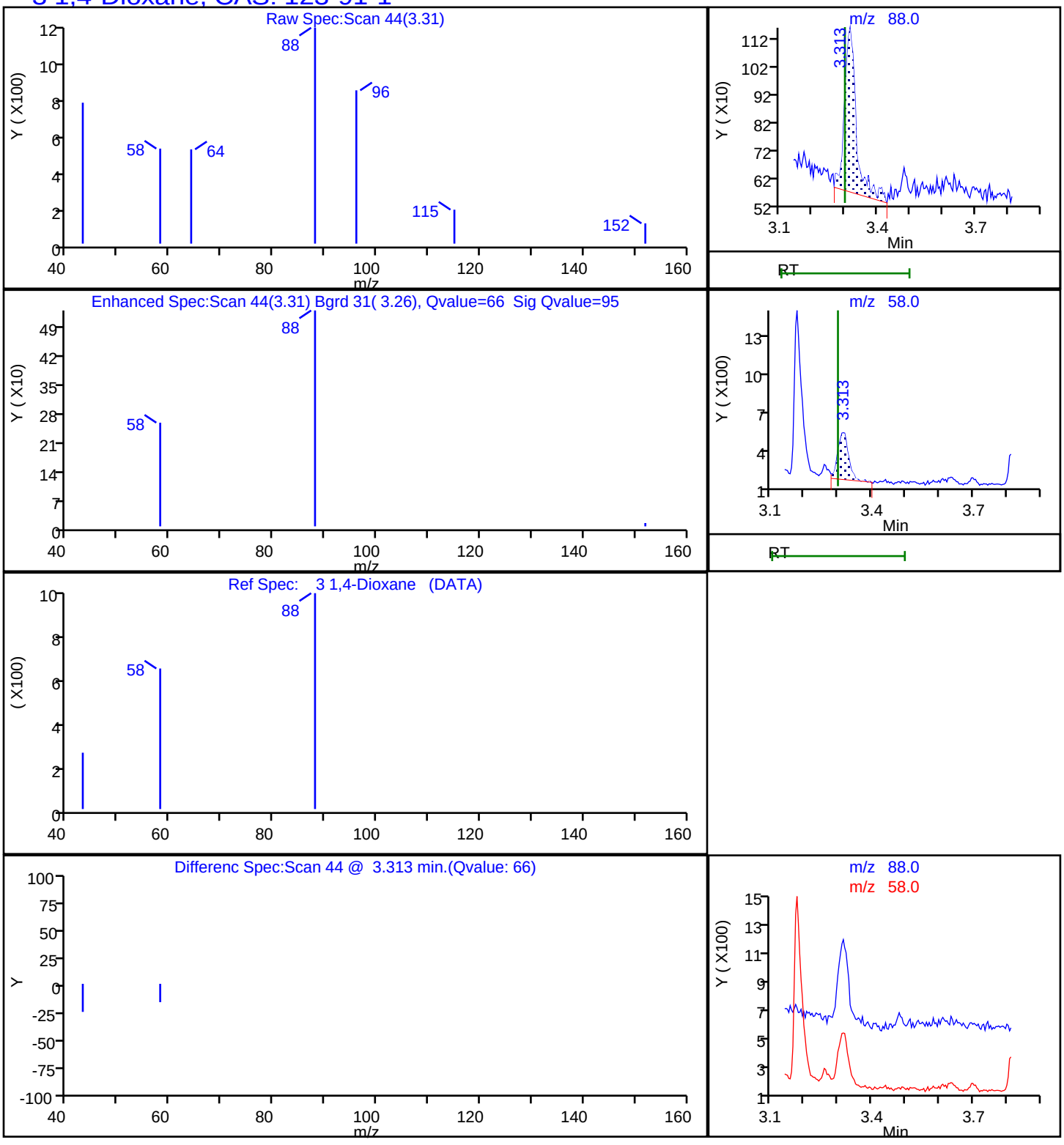
Report Date: 28-Mar-2023 10:09:40 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001040.d

Injection Date:	27-Mar-2023 14:01:30	Instrument ID:	HP5973U		
Lims ID:	480-207175-B-2-C	Lab Sample ID:	480-207175-2		
Client ID:	RC-OW-B				
Operator ID:	JM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

3 1,4-Dioxane, CAS: 123-91-1



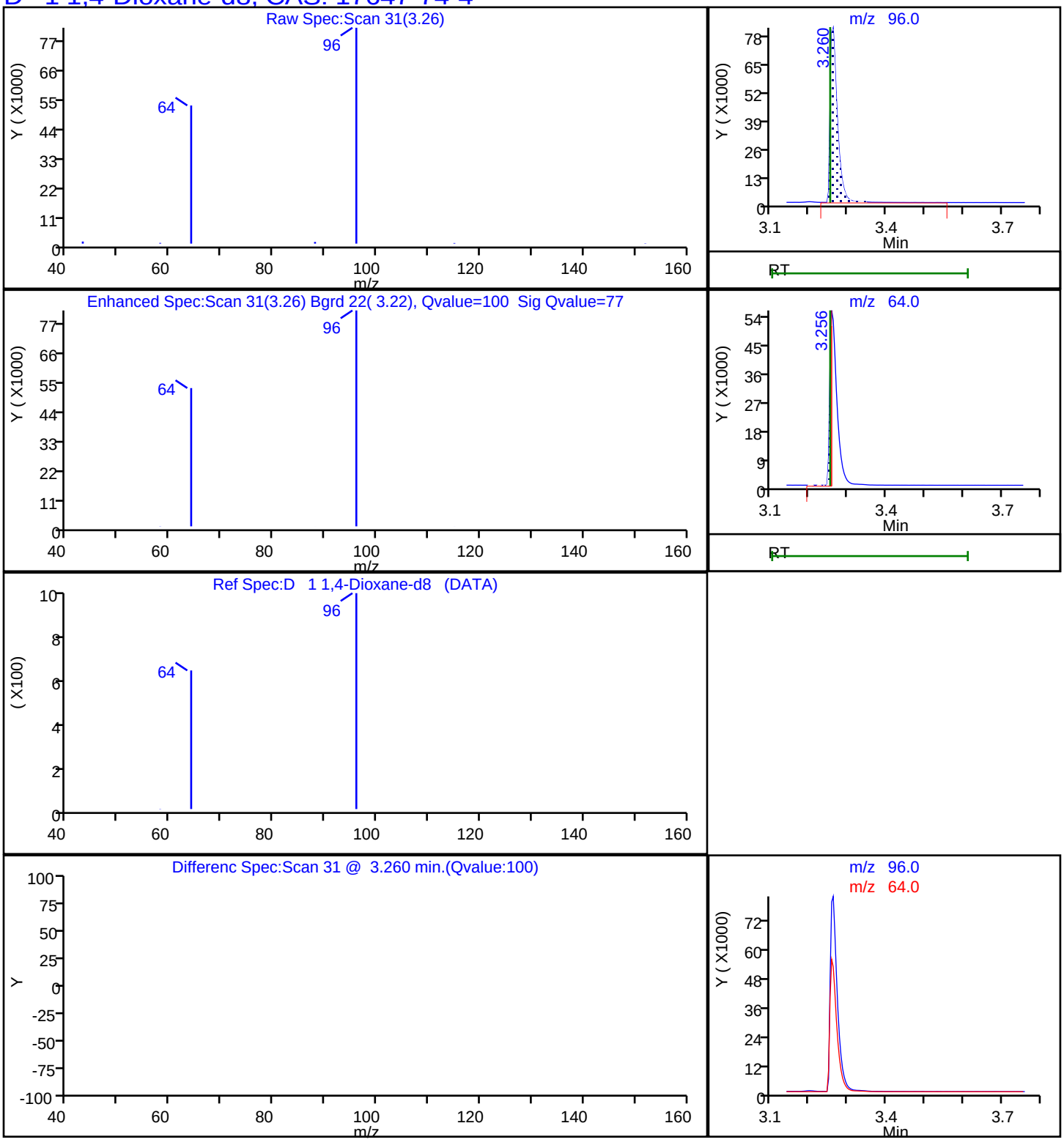
Report Date: 28-Mar-2023 10:09:40 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001040.d

Injection Date:	27-Mar-2023 14:01:30	Instrument ID:	HP5973U		
Lims ID:	480-207175-B-2-C	Lab Sample ID:	480-207175-2		
Client ID:	RC-OW-B				
Operator ID:	JM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207175-1

SDG No.:

Client Sample ID: RC-OW-C | Lab Sample ID: 480-207175-3

Matrix: Water | Lab File ID: U0000001066.d

Analysis Method: 8270D SIM ID | Date Collected: 03/22/2023 10:10

Extract. Method: 3510C | Date Extracted: 03/23/2023 14:57

Sample wt/vol: 250(mL) | Date Analyzed: 03/30/2023 13:21

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 663299 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	320		4.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	39		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230330-110796.b\U0000001066.d
Lims ID: 480-207175-B-3-A
Client ID: RC-OW-C
Sample Type: Client
Inject. Date: 30-Mar-2023 13:21:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: 480-0110796-004
Operator ID: JM Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230330-110796.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 31-Mar-2023 15:47:41 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1619

First Level Reviewer: IZ8L Date: 31-Mar-2023 15:46:37

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D	1 1,4-Dioxane-d8	96	3.272	3.248	0.024	100	6406	0.0978	39.1	
	3 1,4-Dioxane	88	3.296	3.296	0.000	98	117345	4.05		
*	2 1,4-Dichlorobenzene-d4	152	6.197	6.198	-0.001	100	480260	4.00		

QC Flag Legend
Processing Flags

Reagents:
MB_LLIS_WRK_00250 Amount Added: 20.00 Units: uL Run Reagent

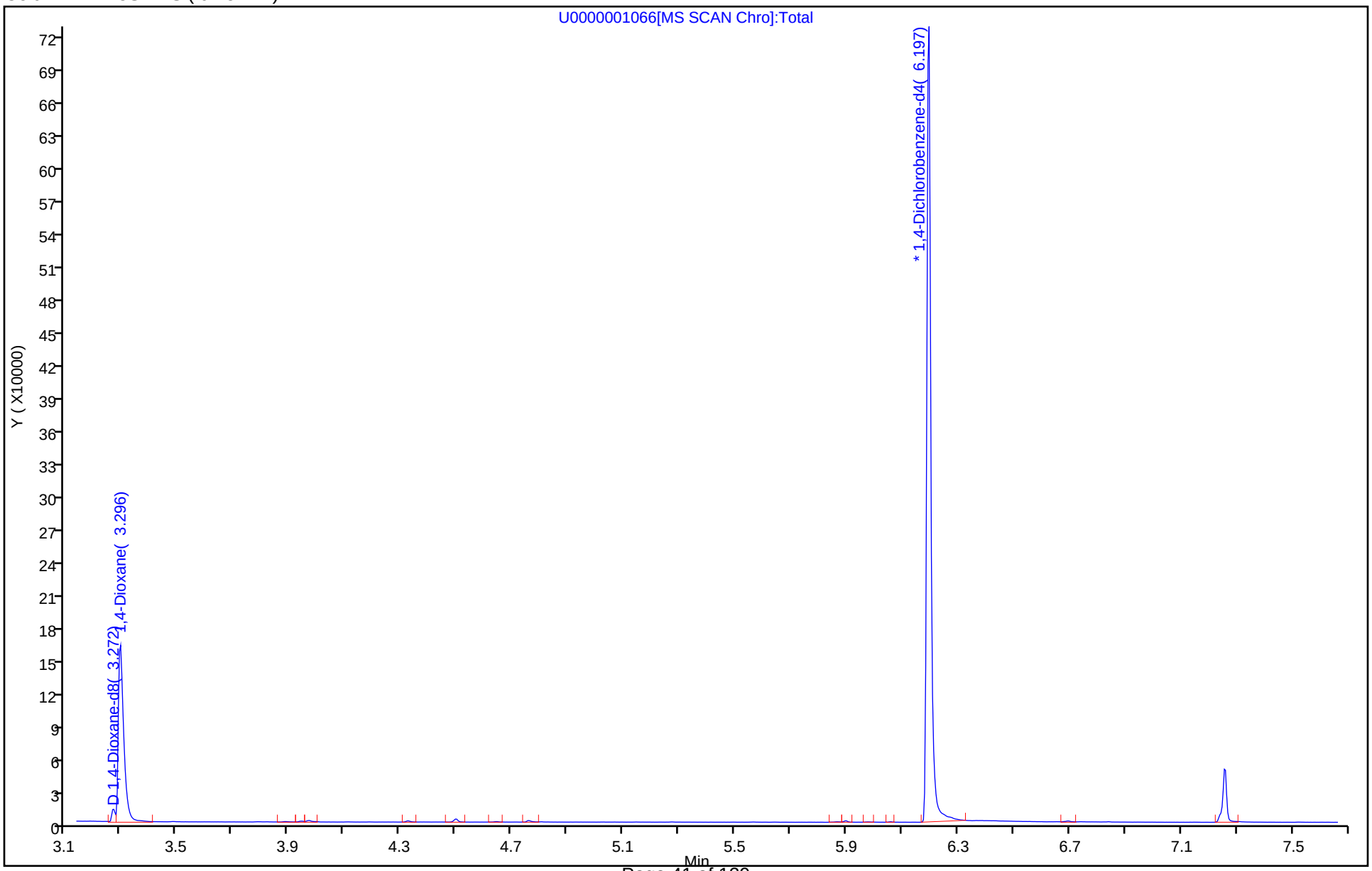
Report Date: 31-Mar-2023 15:47:42 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230330-110796.b\U0000001066.d

Injection Date:	30-Mar-2023 13:21:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	480-207175-B-3-A	Lab Sample ID:	480-207175-3	Worklist Smp#:	4
Client ID:	RC-OW-C				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	4
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



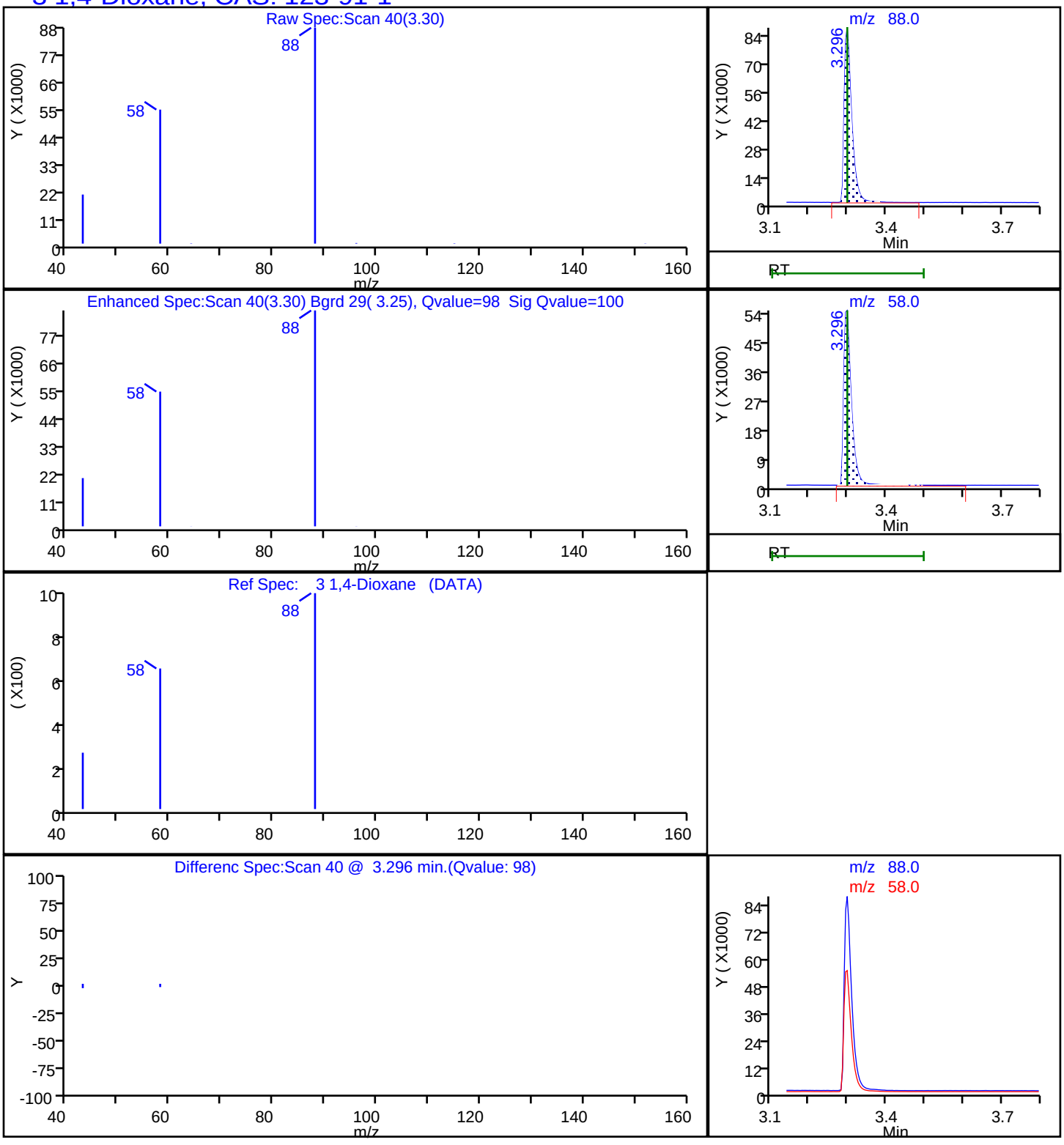
Report Date: 31-Mar-2023 15:47:42 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230330-110796.b\U0000001066.d

Injection Date:	30-Mar-2023 13:21:30	Instrument ID:	HP5973U		
Lims ID:	480-207175-B-3-A	Lab Sample ID:	480-207175-3		
Client ID:	RC-OW-C				
Operator ID:	JM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

3 1,4-Dioxane, CAS: 123-91-1



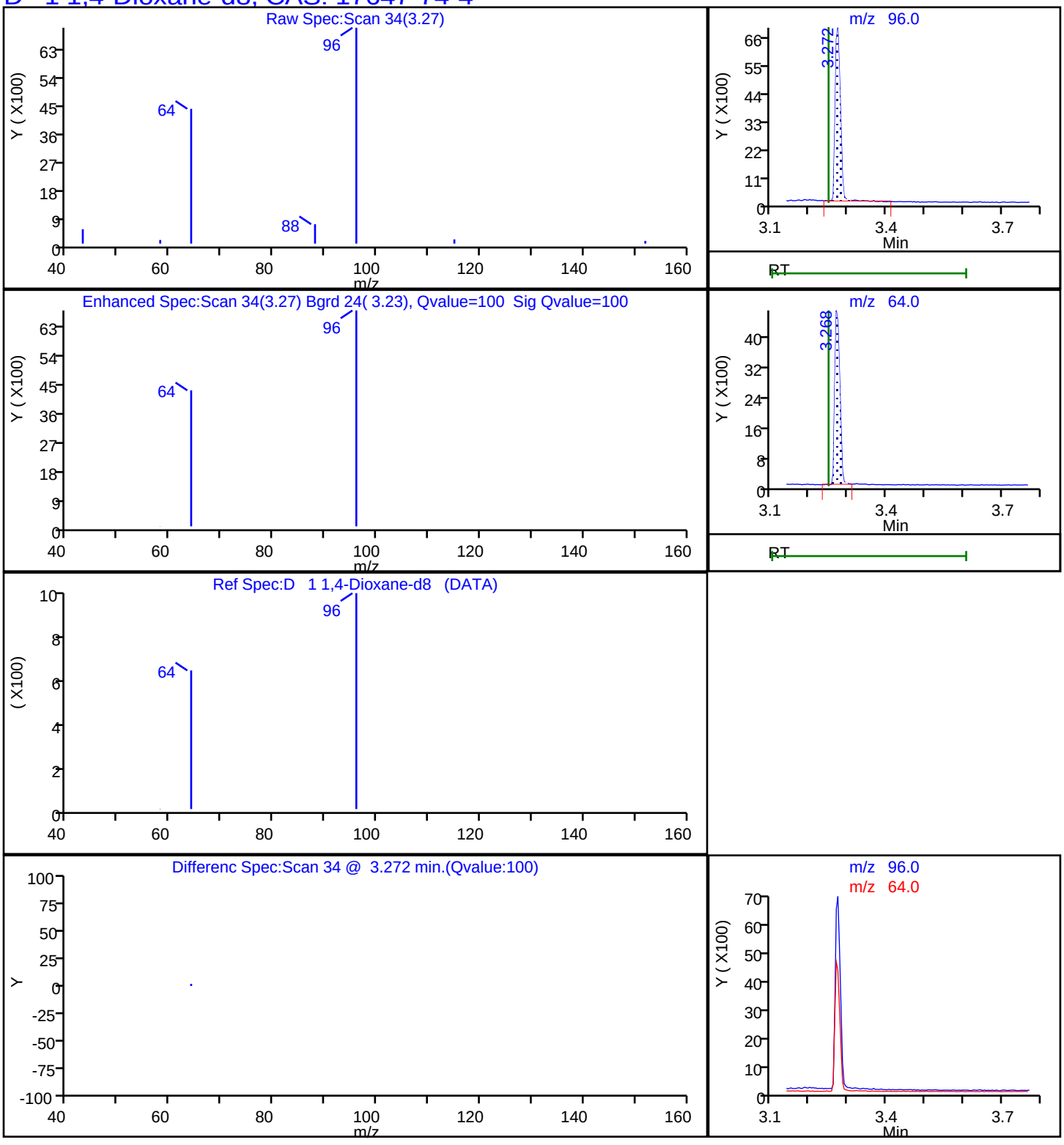
Report Date: 31-Mar-2023 15:47:42 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230330-110796.b\U0000001066.d

Injection Date:	30-Mar-2023 13:21:30	Instrument ID:	HP5973U		
Lims ID:	480-207175-B-3-A	Lab Sample ID:	480-207175-3		
Client ID:	RC-OW-C				
Operator ID:	JM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207175-1

SDG No.:

Client Sample ID: RC-OW-D | Lab Sample ID: 480-207175-4

Matrix: Water | Lab File ID: U0000001046.d

Analysis Method: 8270D SIM ID | Date Collected: 03/22/2023 16:45

Extract. Method: 3510C | Date Extracted: 03/23/2023 14:57

Sample wt/vol: 250(mL) | Date Analyzed: 03/27/2023 16:20

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 662912 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.3		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	32		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001046.d
Lims ID: 480-207175-B-4-A
Client ID: RC-OW-D
Sample Type: Client
Inject. Date: 27-Mar-2023 16:20:30 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 14
Operator ID: JM Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 28-Mar-2023 10:09:37 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1650

First Level Reviewer: O0RH Date: 28-Mar-2023 10:08:59

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D	1 1,4-Dioxane-d8	96	3.260	3.252	0.008	99	97172	1.60	31.9	
	3 1,4-Dioxane	88	3.313	3.297	0.016	95	7086	0.3221		
*	2 1,4-Dichlorobenzene-d4	152	6.197	6.198	-0.001	100	446280	4.00		

QC Flag Legend
Processing Flags

Reagents:
MB_LLIS_WRK_00250 Amount Added: 20.00 Units: uL Run Reagent

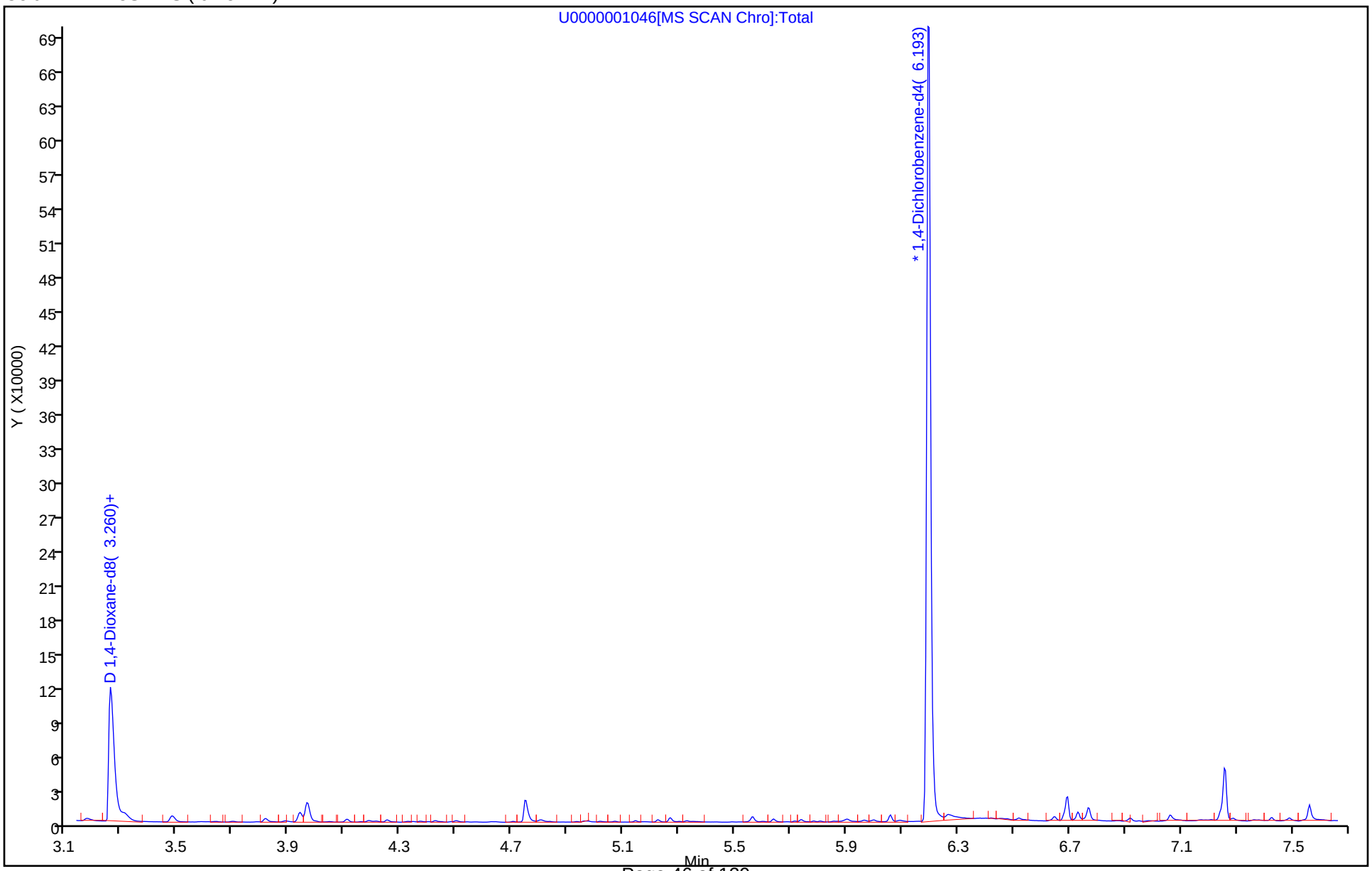
Report Date: 28-Mar-2023 10:09:44 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001046.d

Injection Date:	27-Mar-2023 16:20:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	480-207175-B-4-A	Lab Sample ID:	480-207175-4	Worklist Smp#:	14
Client ID:	RC-OW-D				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



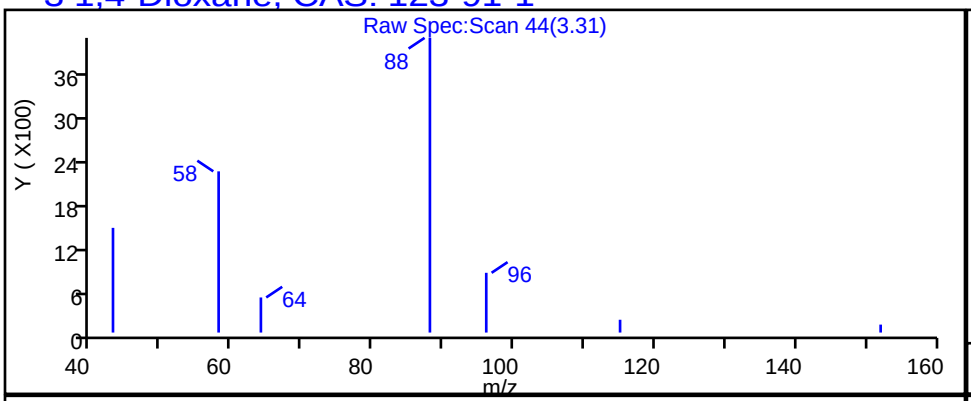
Report Date: 28-Mar-2023 10:09:44 Chrom Revision: 2.3 16-Mar-2023 15:40:40

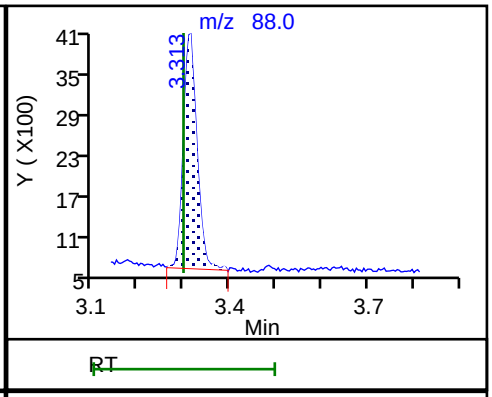
Eurofins Buffalo

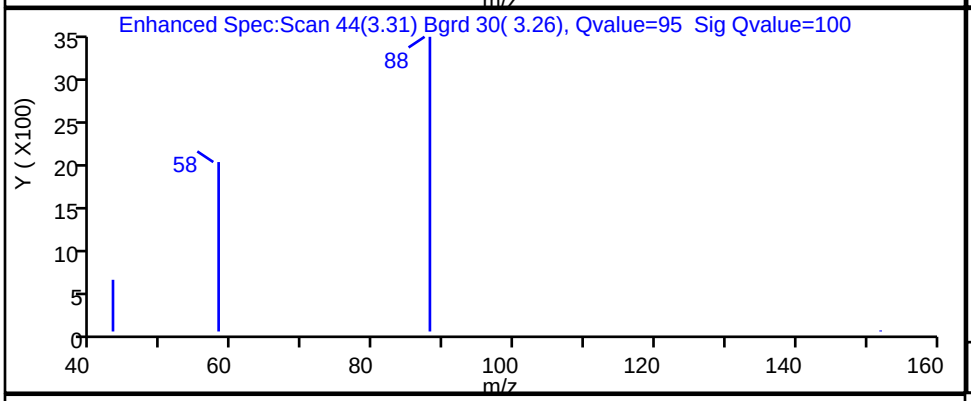
Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001046.d

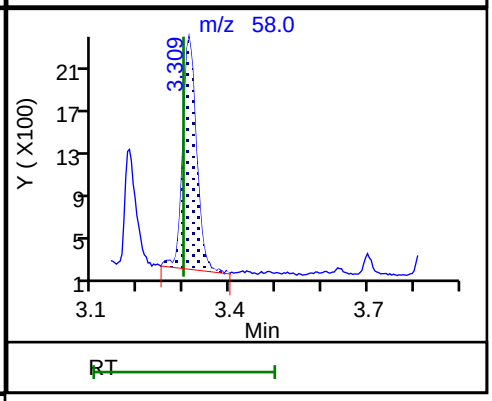
Injection Date:	27-Mar-2023 16:20:30	Instrument ID:	HP5973U
Lims ID:	480-207175-B-4-A	Lab Sample ID:	480-207175-4
Client ID:	RC-OW-D		
Operator ID:	JM	ALS Bottle#:	14 Worklist Smp#: 14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

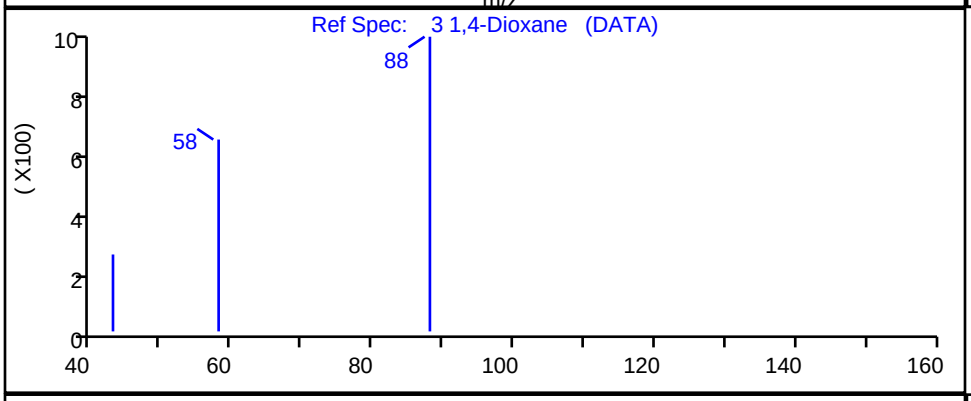
3 1,4-Dioxane, CAS: 123-91-1

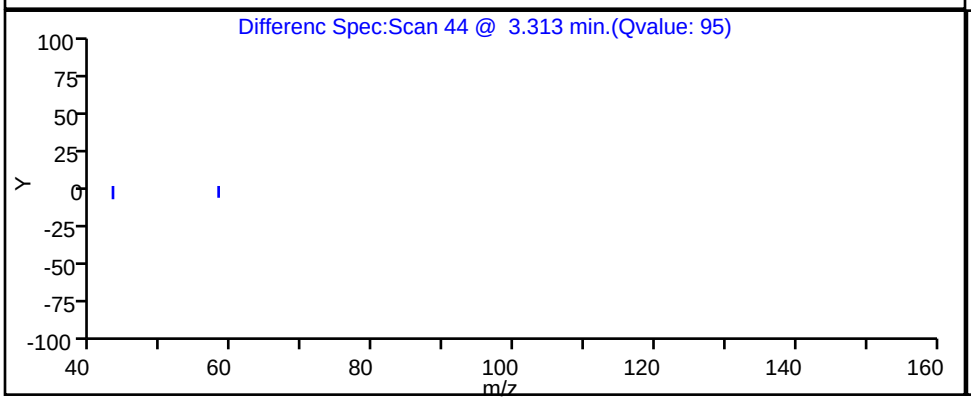


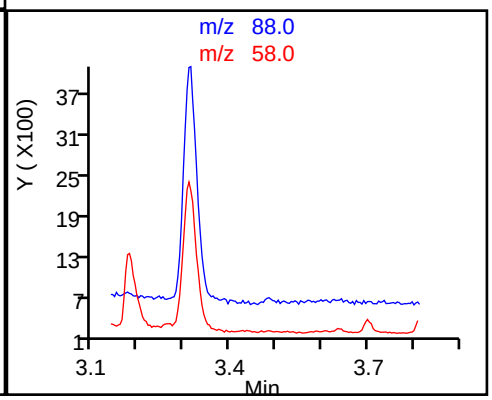












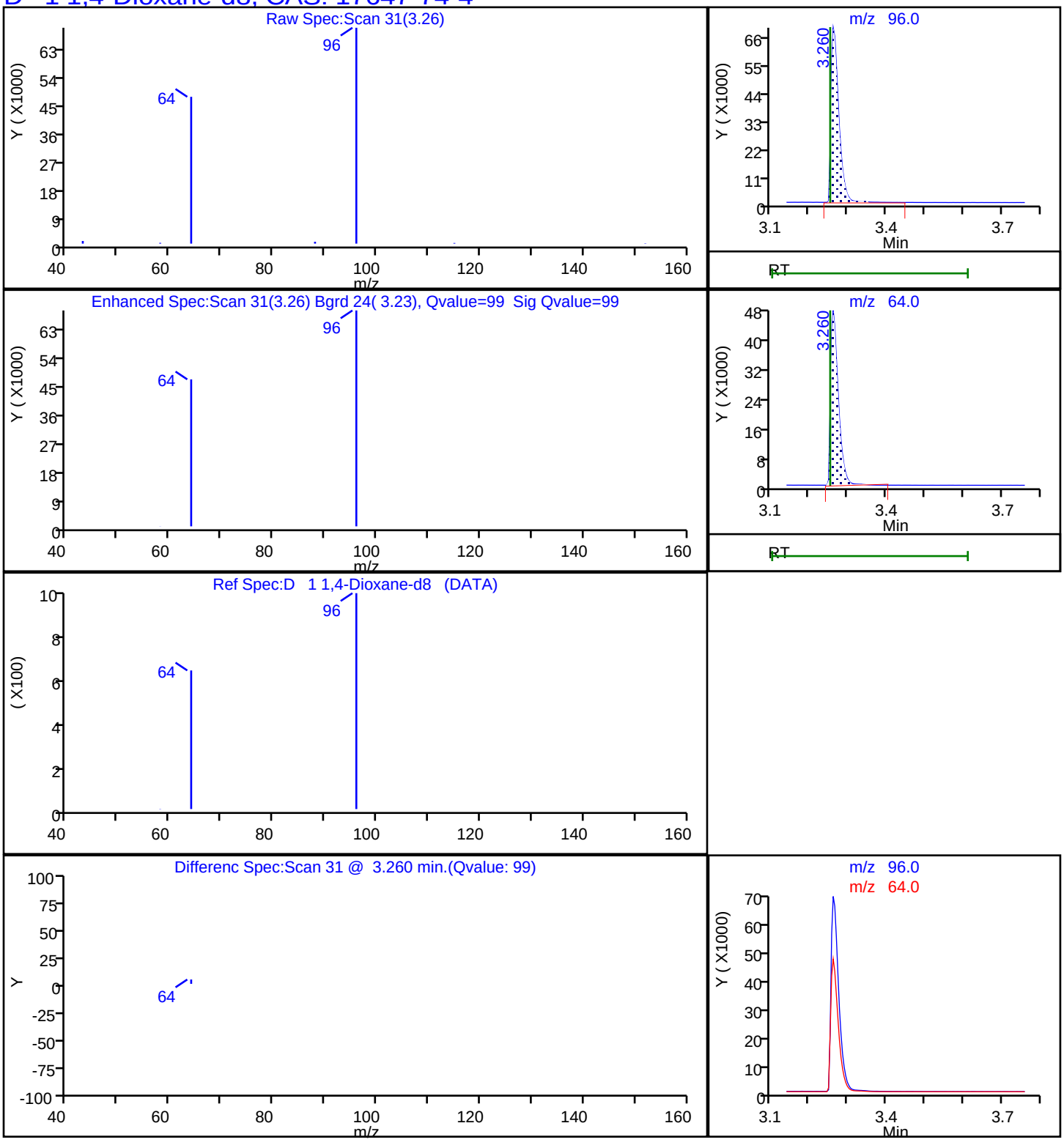
Report Date: 28-Mar-2023 10:09:44 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001046.d

Injection Date:	27-Mar-2023 16:20:30	Instrument ID:	HP5973U		
Lims ID:	480-207175-B-4-A	Lab Sample ID:	480-207175-4		
Client ID:	RC-OW-D				
Operator ID:	JM	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207175-1

SDG No.:

Client Sample ID: RC-OW-E | Lab Sample ID: 480-207175-5

Matrix: Water | Lab File ID: U0000001047.d

Analysis Method: 8270D SIM ID | Date Collected: 03/22/2023 15:06

Extract. Method: 3510C | Date Extracted: 03/23/2023 14:57

Sample wt/vol: 250(mL) | Date Analyzed: 03/27/2023 16:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 662912 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	32		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001047.d
Lims ID: 480-207175-B-5-A
Client ID: RC-OW-E
Sample Type: Client
Inject. Date: 27-Mar-2023 16:43:30 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 15
Operator ID: JM Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 28-Mar-2023 10:09:37 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1650

First Level Reviewer: O0RH Date: 28-Mar-2023 10:09:02

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D	1 1,4-Dioxane-d8	96	3.264	3.252	0.012	100	99469	1.62	32.3	
	3 1,4-Dioxane	88		3.297				ND		
*	2 1,4-Dichlorobenzene-d4	152	6.198	6.198	0.000	100	450981	4.00		

QC Flag Legend

Processing Flags

Reagents:

MB_LLIS_WRK_00250 Amount Added: 20.00 Units: uL Run Reagent

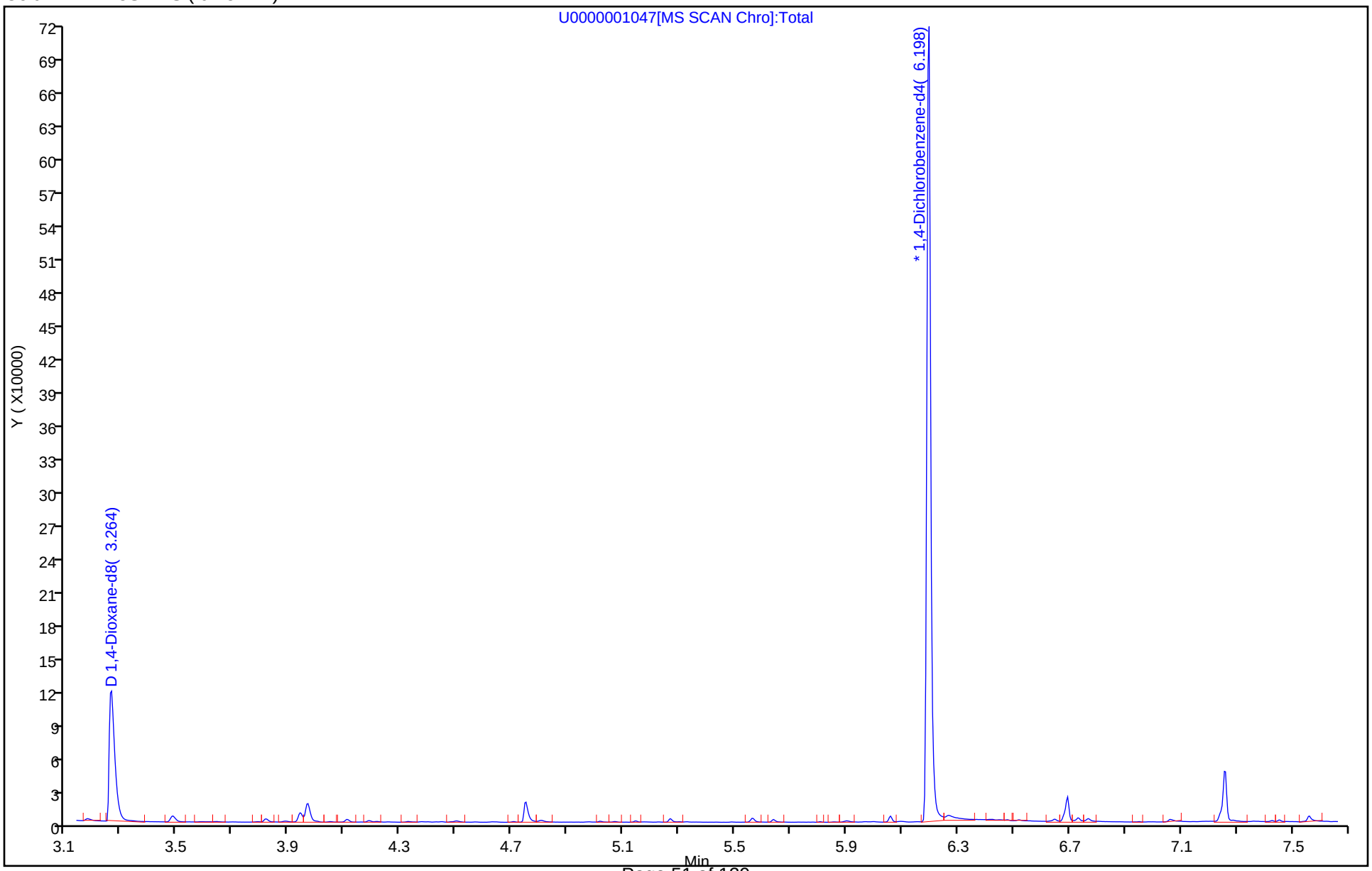
Report Date: 28-Mar-2023 10:09:45 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001047.d

Injection Date:	27-Mar-2023 16:43:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	480-207175-B-5-A	Lab Sample ID:	480-207175-5	Worklist Smp#:	15
Client ID:	RC-OW-E				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



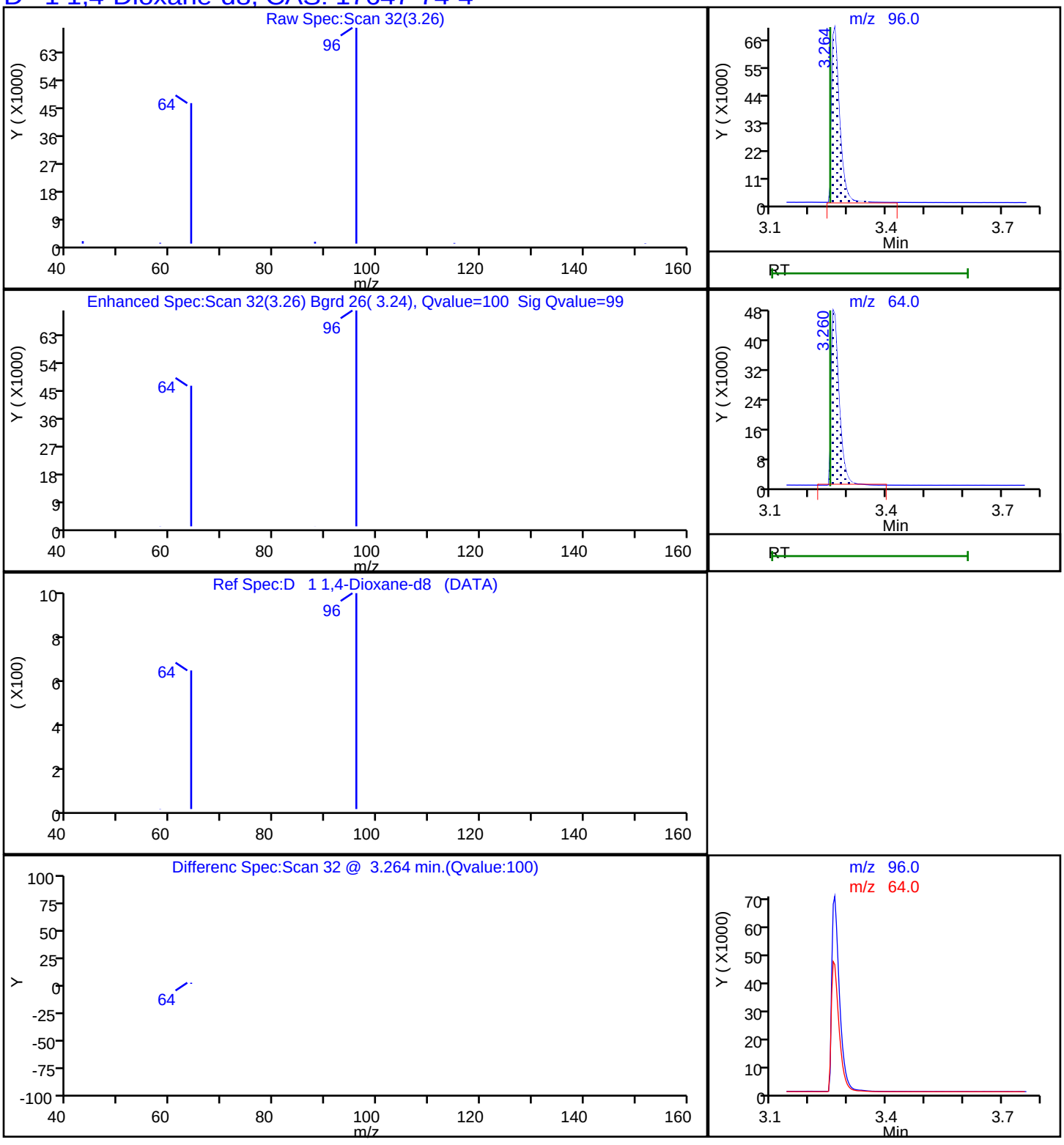
Report Date: 28-Mar-2023 10:09:45 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001047.d

Injection Date:	27-Mar-2023 16:43:30	Instrument ID:	HP5973U		
Lims ID:	480-207175-B-5-A	Lab Sample ID:	480-207175-5		
Client ID:	RC-OW-E				
Operator ID:	JM	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207175-1

SDG No.:

Client Sample ID: RC-OW-DUPE | Lab Sample ID: 480-207175-6

Matrix: Water | Lab File ID: U0000001048.d

Analysis Method: 8270D SIM ID | Date Collected: 03/22/2023 15:20

Extract. Method: 3510C | Date Extracted: 03/23/2023 14:57

Sample wt/vol: 250(mL) | Date Analyzed: 03/27/2023 17:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 662912 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	37		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001048.d
Lims ID: 480-207175-B-6-A
Client ID: RC-OW-DUPE
Sample Type: Client
Inject. Date: 27-Mar-2023 17:06:30 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 16
Operator ID: JM Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 28-Mar-2023 10:09:37 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1650

First Level Reviewer: O0RH Date: 28-Mar-2023 10:09:05

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D	1 1,4-Dioxane-d8	96	3.260	3.252	0.008	100	105358	1.83	36.6	
	3 1,4-Dioxane	88		3.297				ND		
*	2 1,4-Dichlorobenzene-d4	152	6.198	6.198	0.000	100	421794	4.00		

QC Flag Legend
Processing Flags

Reagents:
MB_LLIS_WRK_00250 Amount Added: 20.00 Units: uL Run Reagent

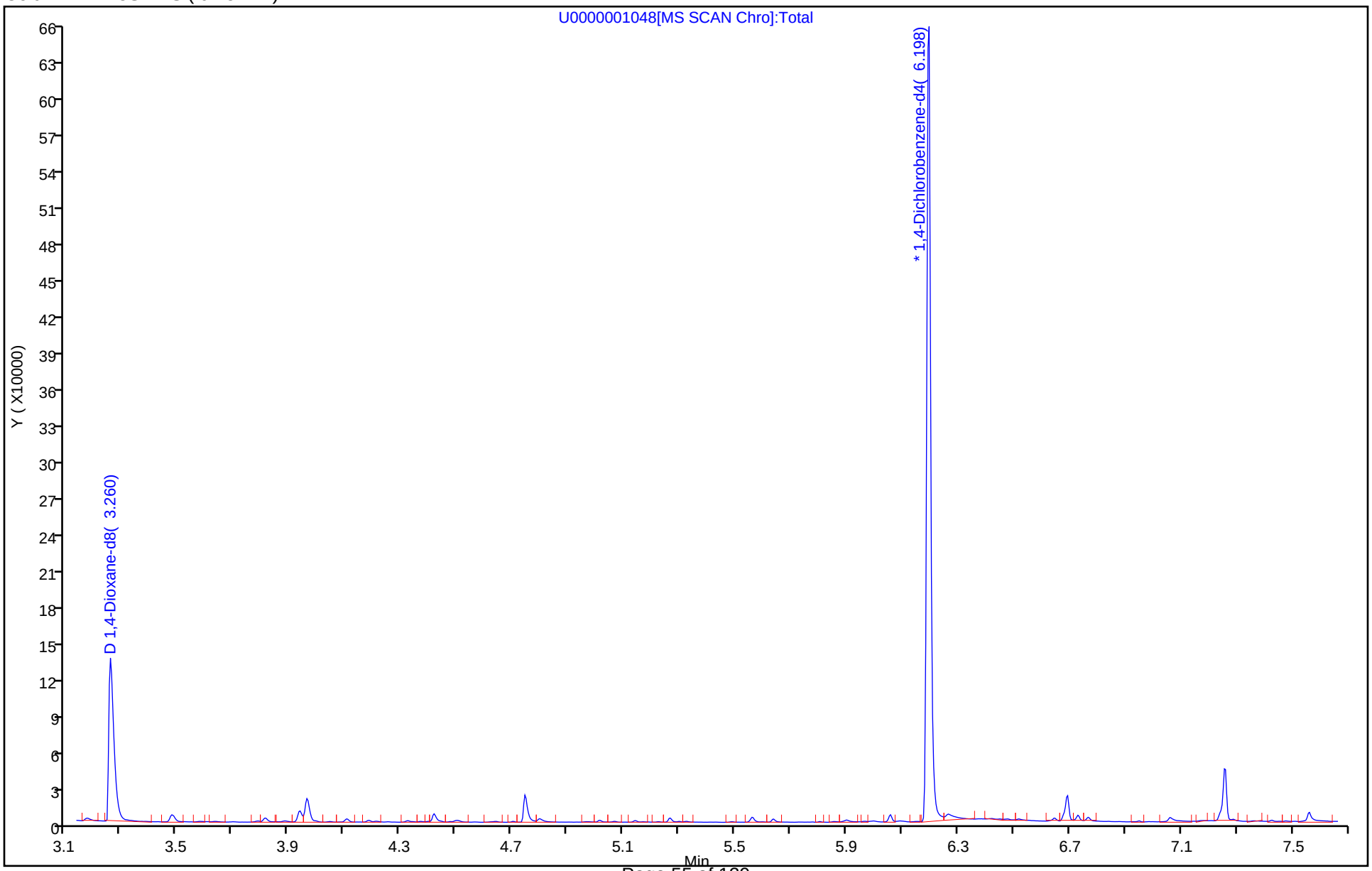
Report Date: 28-Mar-2023 10:09:45 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001048.d

Injection Date:	27-Mar-2023 17:06:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	480-207175-B-6-A	Lab Sample ID:	480-207175-6	Worklist Smp#:	16
Client ID:	RC-OW-DUPE				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



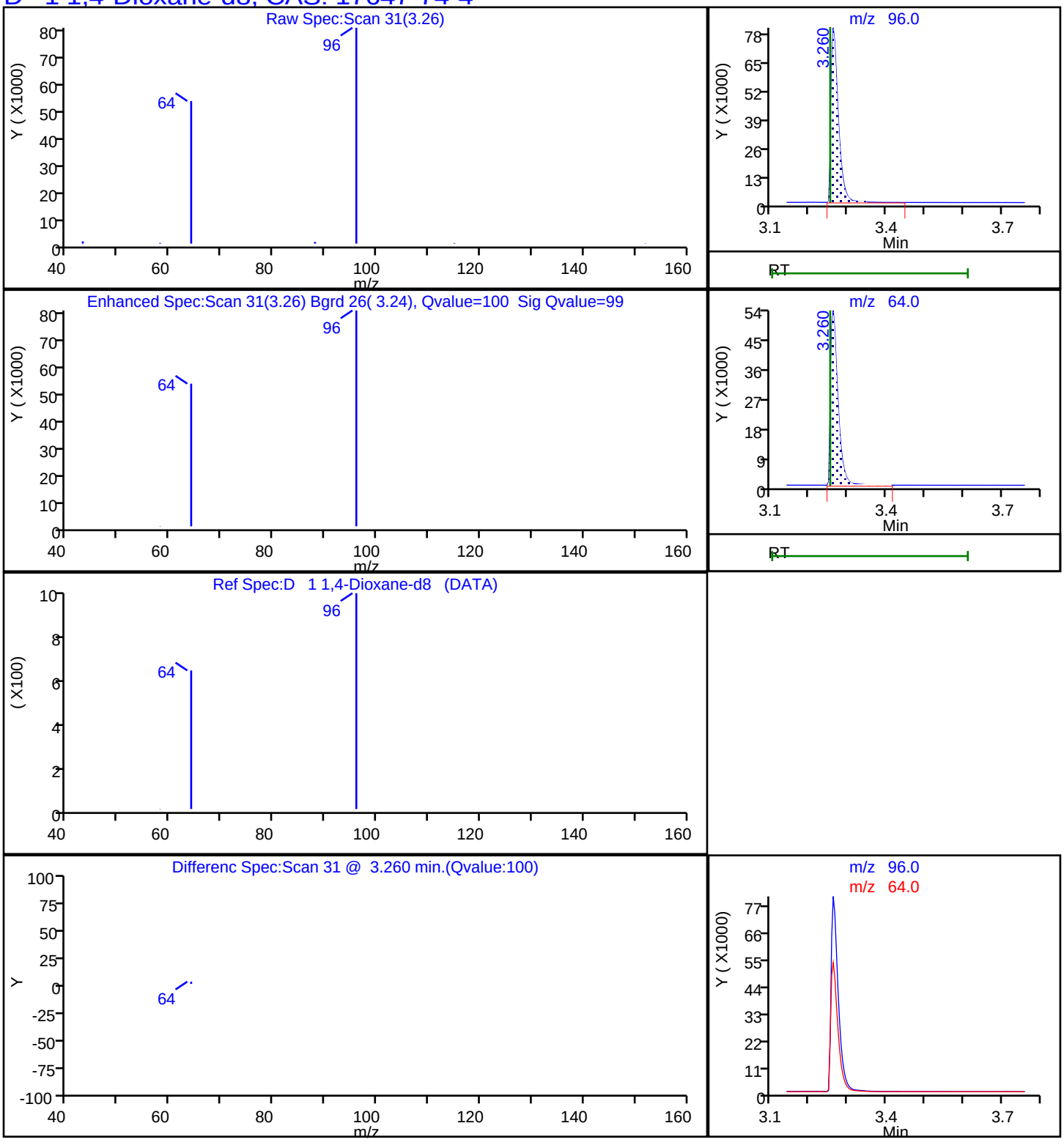
Report Date: 28-Mar-2023 10:09:46 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001048.d

Injection Date:	27-Mar-2023 17:06:30	Instrument ID:	HP5973U		
Lims ID:	480-207175-B-6-A	Lab Sample ID:	480-207175-6		
Client ID:	RC-OW-DUPE				
Operator ID:	JM	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207175-1

SDG No.:

Client Sample ID: RC-OW-FB | Lab Sample ID: 480-207175-7

Matrix: Water | Lab File ID: U0000001049.d

Analysis Method: 8270D SIM ID | Date Collected: 03/22/2023 10:25

Extract. Method: 3510C | Date Extracted: 03/23/2023 14:57

Sample wt/vol: 250(mL) | Date Analyzed: 03/27/2023 17:29

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 662912 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.17	J	0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	35		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001049.d
Lims ID: 480-207175-B-7-A
Client ID: RC-OW-FB
Sample Type: Client
Inject. Date: 27-Mar-2023 17:29:30 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 17
Operator ID: JM Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 28-Mar-2023 10:09:37 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1650

First Level Reviewer: O0RH Date: 28-Mar-2023 10:09:08

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D	1 1,4-Dioxane-d8	96	3.260	3.252	0.008	100	108767	1.73	34.5	
	3 1,4-Dioxane	88	3.317	3.297	0.020	68	1044	0.0424		
*	2 1,4-Dichlorobenzene-d4	152	6.197	6.198	-0.001	100	461674	4.00		

QC Flag Legend
Processing Flags

Reagents:
MB_LLIS_WRK_00250 Amount Added: 20.00 Units: uL Run Reagent

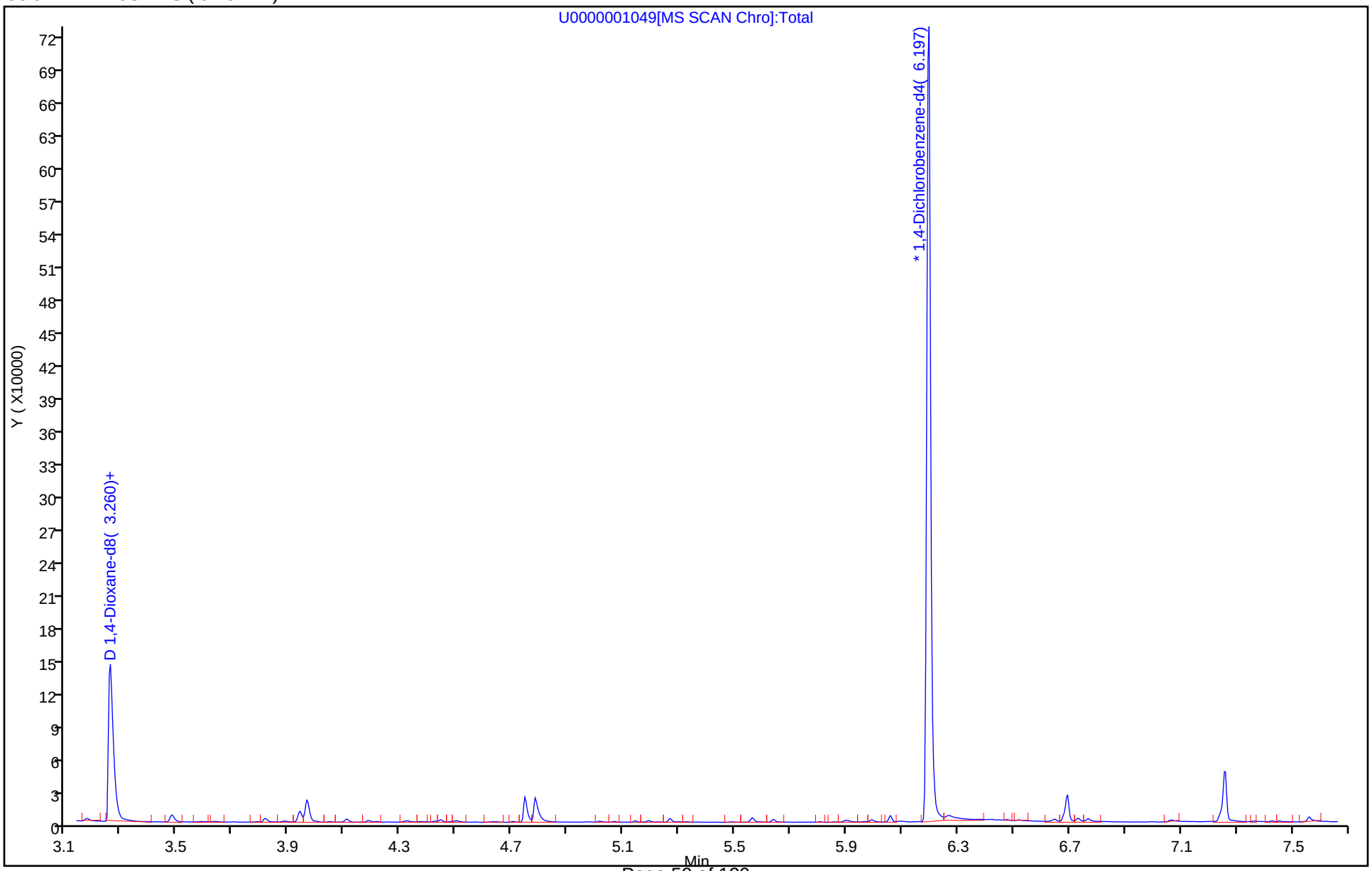
Report Date: 28-Mar-2023 10:09:47 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001049.d

Injection Date:	27-Mar-2023 17:29:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	480-207175-B-7-A	Lab Sample ID:	480-207175-7	Worklist Smp#:	17
Client ID:	RC-OW-FB				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



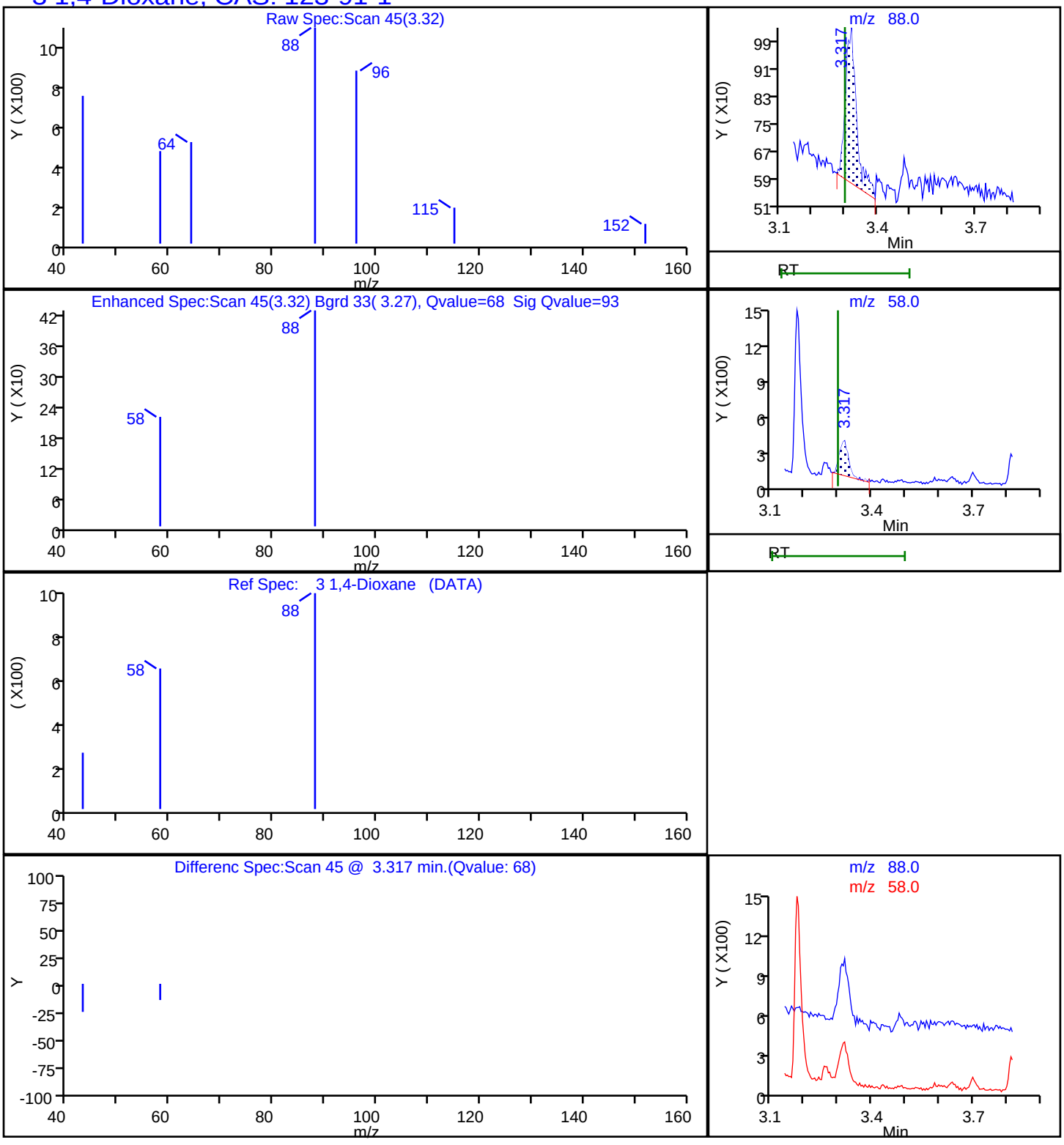
Report Date: 28-Mar-2023 10:09:47 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001049.d

Injection Date:	27-Mar-2023 17:29:30	Instrument ID:	HP5973U
Lims ID:	480-207175-B-7-A	Lab Sample ID:	480-207175-7
Client ID:	RC-OW-FB		
Operator ID:	JM	ALS Bottle#:	17 Worklist Smp#: 17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

3 1,4-Dioxane, CAS: 123-91-1



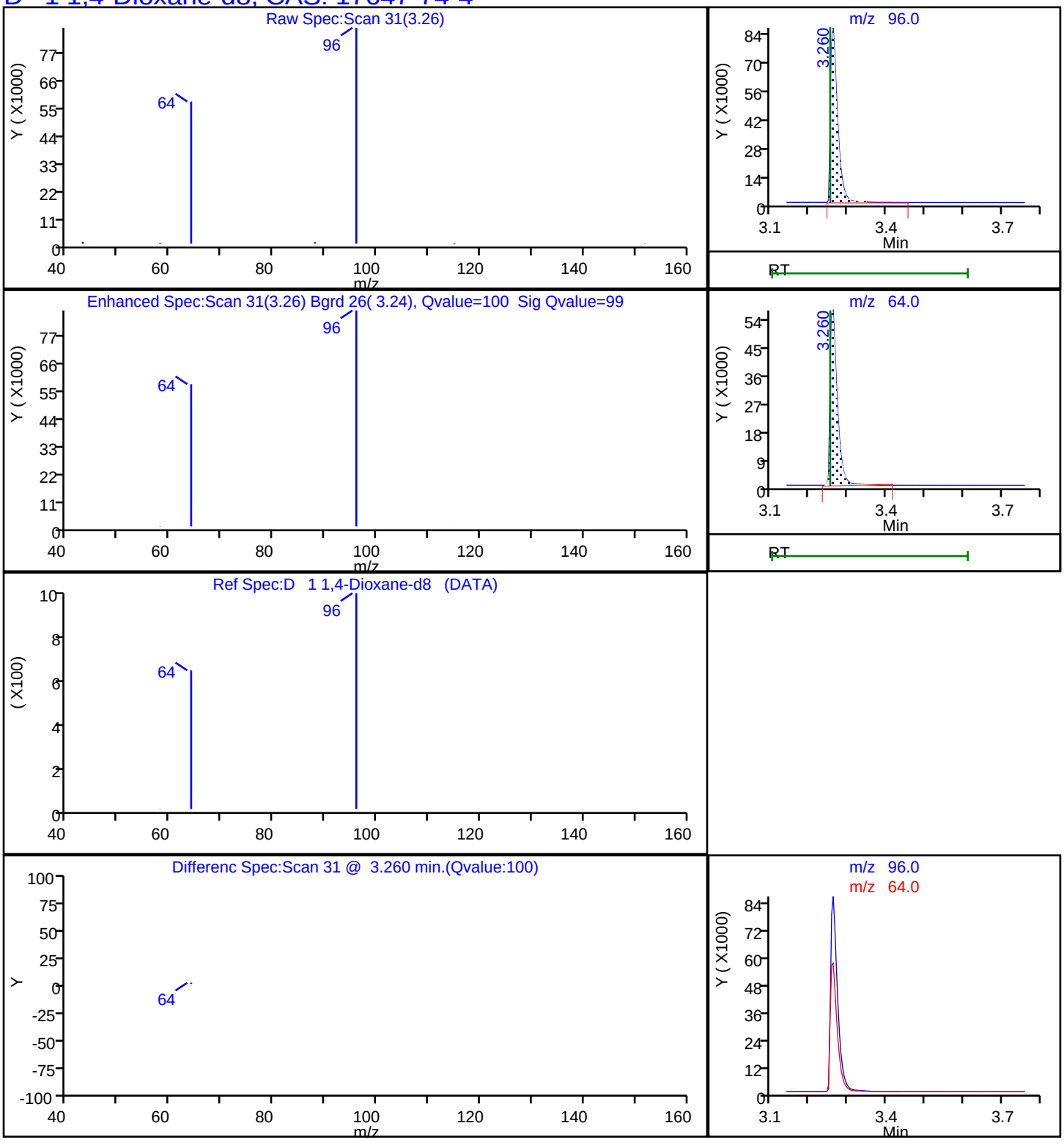
Report Date: 28-Mar-2023 10:09:47 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001049.d

Injection Date:	27-Mar-2023 17:29:30	Instrument ID:	HP5973U		
Lims ID:	480-207175-B-7-A	Lab Sample ID:	480-207175-7		
Client ID:	RC-OW-FB				
Operator ID:	JM	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-207175-1 Analy Batch No.: 655648

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/11/2023 10:44 Calibration End Date: 01/11/2023 12:35 Calibration ID: 44407

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-655648/3	U0000000432.d
Level 2	IC 480-655648/4	U0000000433.d
Level 3	IC 480-655648/5	U0000000434.d
Level 4	ICIS 480-655648/6	U0000000435.d
Level 5	IC 480-655648/7	U0000000436.d
Level 6	IC 480-655648/8	U0000000437.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5 LVL 6		B	M1	M2								
1,4-Dioxane	1.1137 1.2859	1.0961	1.1001	1.0972	1.0998	AveID		1.1321			0.0100	6.7		20.0			
1,4-Dioxane-d8	0.5639 0.4604	0.5529	0.5905	0.5540	0.5519	Ave		0.5456			0.0100	8.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-207175-1 Analy Batch No.: 655648

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/11/2023 10:44 Calibration End Date: 01/11/2023 12:35 Calibration ID: 44407

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-655648/3	U0000000432.d
Level 2	IC 480-655648/4	U0000000433.d
Level 3	IC 480-655648/5	U0000000434.d
Level 4	ICIS 480-655648/6	U0000000435.d
Level 5	IC 480-655648/7	U0000000436.d
Level 6	IC 480-655648/8	U0000000437.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane		AveID	5288 522566	20658	41709	63173	82746	0.0500 5.00	0.200	0.400	0.600	0.800
1,4-Dioxane-d8	DCBd4	Ave	47481 4063781	188472	379122	575787	752382	0.500 50.0	2.00	4.00	6.00	8.00

Curve Type Legend

Ave = Average ISTD
AveID = Average isotope dilution

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-207175-1 Analy Batch No.: 655648

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/11/2023 10:44 Calibration End Date: 01/11/2023 12:35 Calibration ID: 44407

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-655648/3	U0000000432.d
Level 2	IC 480-655648/4	U0000000433.d
Level 3	IC 480-655648/5	U0000000434.d
Level 4	ICIS 480-655648/6	U0000000435.d
Level 5	IC 480-655648/7	U0000000436.d
Level 6	IC 480-655648/8	U0000000437.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dioxane	-1.6	-3.2	-2.8	-3.1	-2.9	13.6	30	30	30	30	30	30
1,4-Dioxane-d8	3.4	1.3	8.2	1.5	1.2	-15.6	30	30	30	30	30	30

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000432.d
Lims ID: IC - SIM - 0.05
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-Jan-2023 10:44:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0109710-003
Operator ID: JM Instrument ID: HP5973U
Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 11-Jan-2023 15:22:18 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: IZ8L Date: 11-Jan-2023 15:21:14

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.280	3.264	0.016	99	47481	0.5000	0.5168	
	3 1,4-Dioxane	88	3.329	3.313	0.016	97	5288	0.0500	0.0492	
*	2 1,4-Dichlorobenzene-d4	152	6.206	6.210	-0.004	99	673607	4.00	4.00	

QC Flag Legend
Processing Flags

Reagents:
MB_1,4SIM_WRK_00143 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00247 Amount Added: 20.00 Units: uL Run Reagent

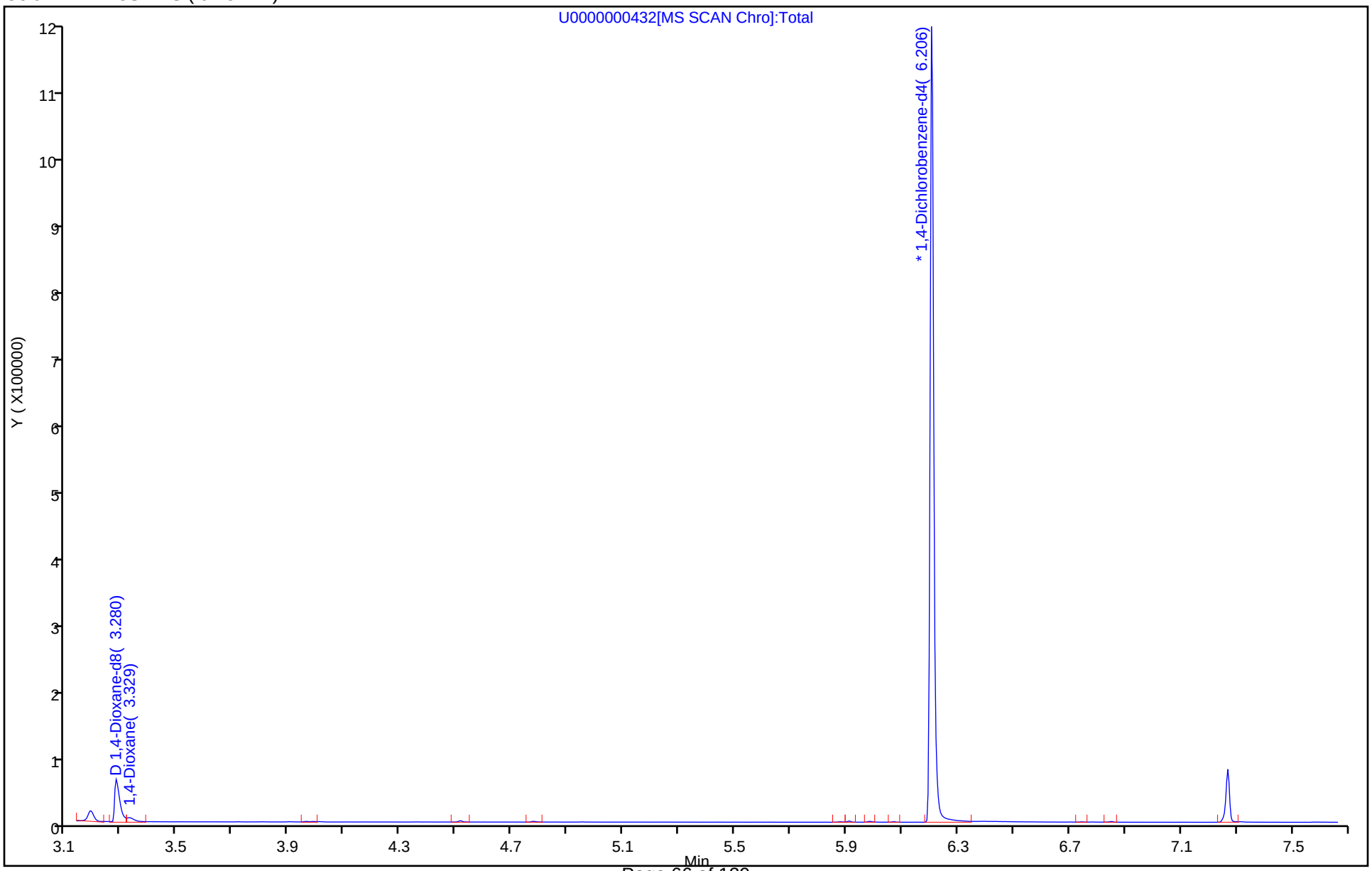
Report Date: 11-Jan-2023 15:22:19 Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000432.d

Injection Date:	11-Jan-2023 10:44:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	IC - SIM - 0.05			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000433.d
Lims ID: IC - SIM - 0.2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-Jan-2023 11:06:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0109710-004
Operator ID: JM Instrument ID: HP5973U
Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 11-Jan-2023 15:22:19 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: IZ8L Date: 11-Jan-2023 15:21:17

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.272	3.264	0.008	100	188472	2.00	2.03	
	3 1,4-Dioxane	88	3.321	3.313	0.008	98	20658	0.2000	0.1936	
*	2 1,4-Dichlorobenzene-d4	152	6.206	6.210	-0.004	99	681729	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00144 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00247 Amount Added: 20.00 Units: uL Run Reagent

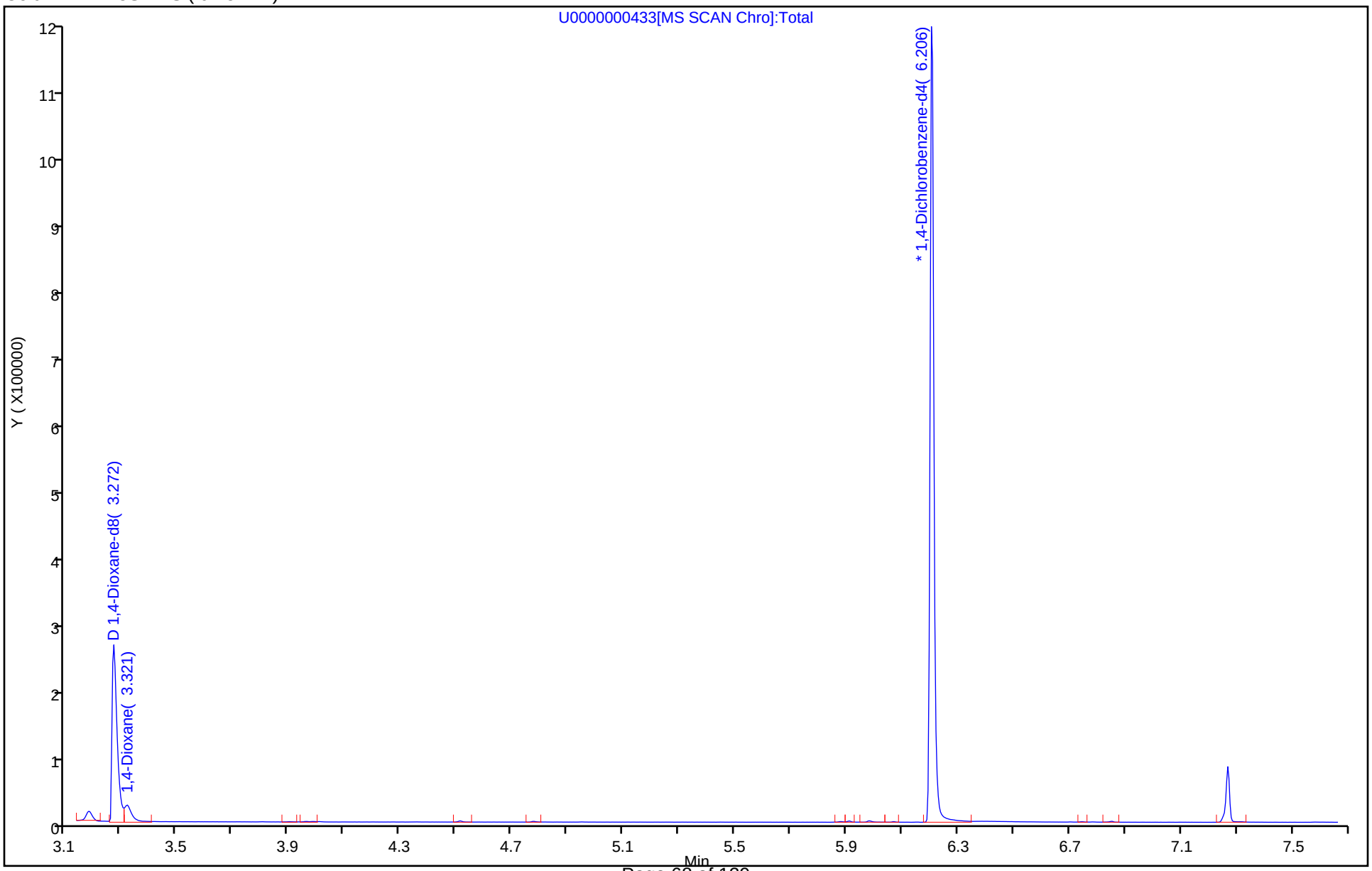
Report Date: 11-Jan-2023 15:22:20 Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000433.d

Injection Date:	11-Jan-2023 11:06:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	IC - SIM - 0.2			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000434.d
Lims ID: IC - SIM - 0.4
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-Jan-2023 11:27:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0109710-005
Operator ID: JM Instrument ID: HP5973U
Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 11-Jan-2023 15:22:20 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: IZ8L Date: 11-Jan-2023 15:21:20

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.268	3.268	0.000	100	379122	4.00	4.33	
	3 1,4-Dioxane	88	3.317	3.317	0.000	98	41709	0.4000	0.3887	
*	2 1,4-Dichlorobenzene-d4	152	6.206	6.206	0.000	99	642055	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00145 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00247 Amount Added: 20.00 Units: uL Run Reagent

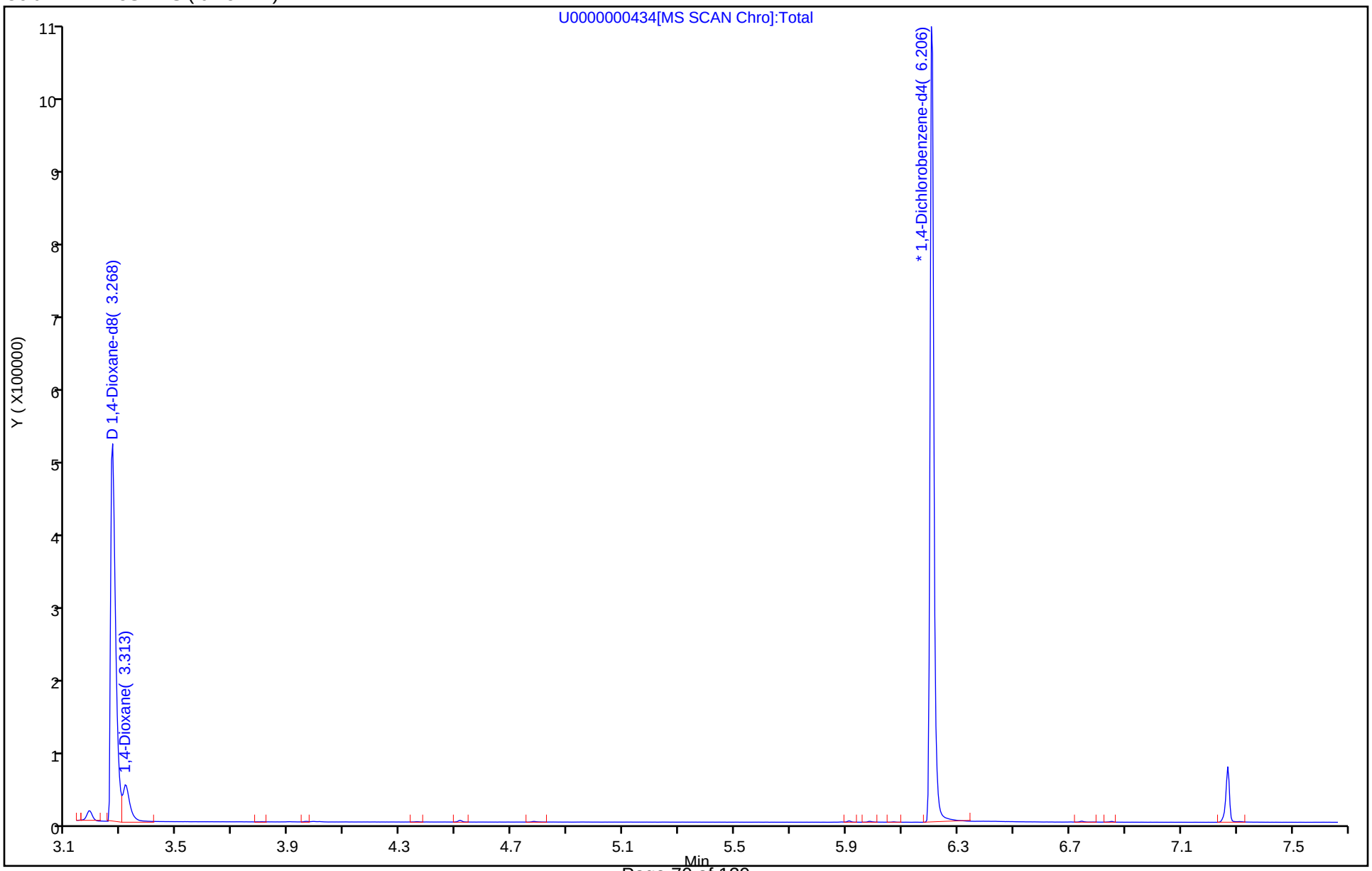
Report Date: 11-Jan-2023 15:22:20 Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000434.d

Injection Date:	11-Jan-2023 11:27:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	IC - SIM - 0.4			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000435.d
Lims ID: ICIS - SIM - 0.6
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 11-Jan-2023 11:50:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0109710-006
Operator ID: JM Instrument ID: HP5973U
Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 11-Jan-2023 15:22:21 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: IZ8L Date: 11-Jan-2023 15:21:10

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.264	3.264	0.000	99	575787	6.00	6.09	
	3 1,4-Dioxane	88	3.313	3.313	0.000	99	63173	0.6000	0.5815	
*	2 1,4-Dichlorobenzene-d4	152	6.210	6.210	0.000	100	692887	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00146 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00247 Amount Added: 20.00 Units: uL Run Reagent

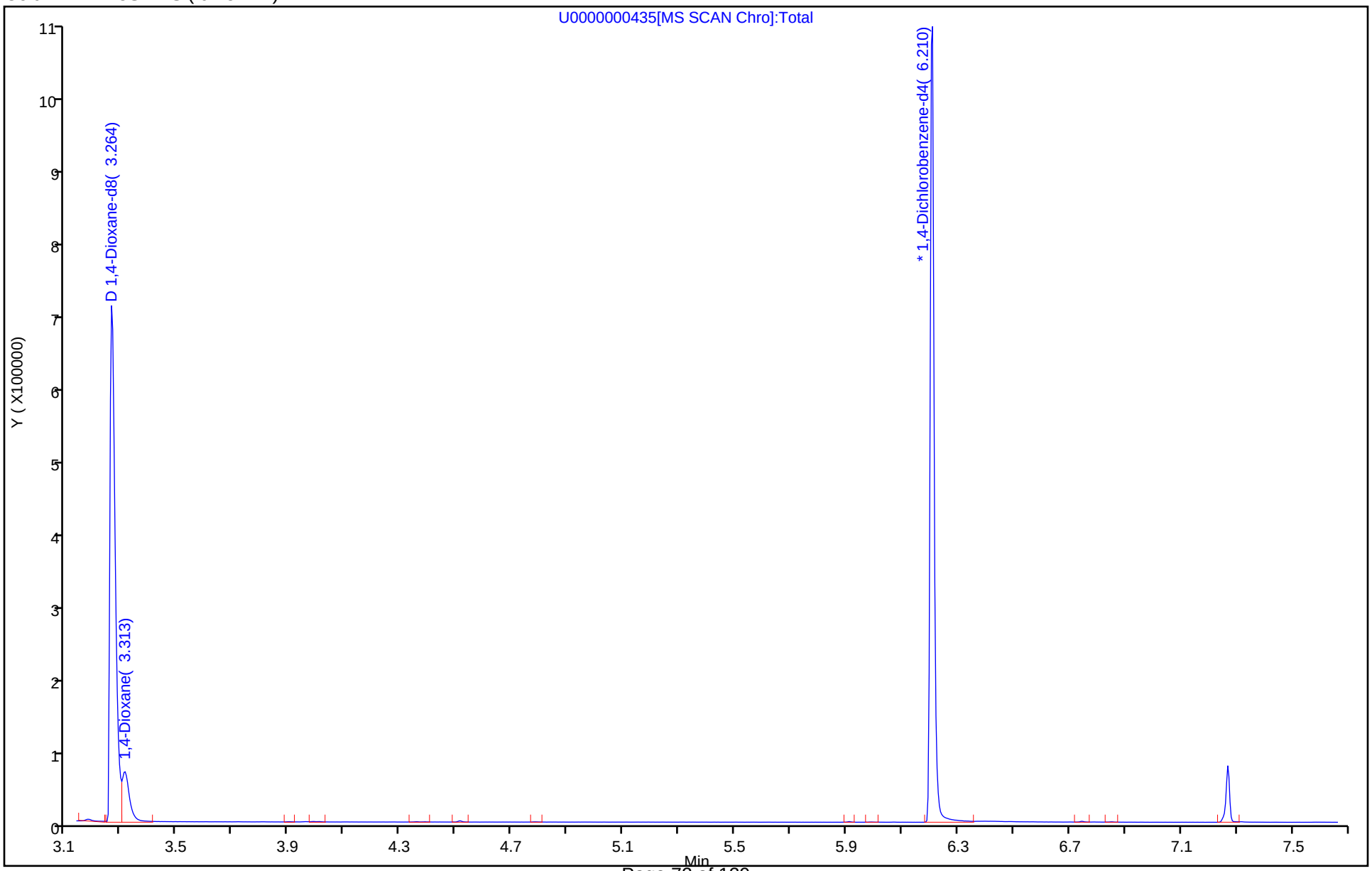
Report Date: 11-Jan-2023 15:22:21 Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000435.d

Injection Date:	11-Jan-2023 11:50:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	ICIS - SIM - 0.6			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000436.d
Lims ID: IC - SIM - 0.8
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 11-Jan-2023 12:12:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0109710-007
Operator ID: JM Instrument ID: HP5973U
Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 11-Jan-2023 15:22:21 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: IZ8L Date: 11-Jan-2023 15:21:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	3.264	3.264	0.000	99	752382	8.00	8.09	
3 1,4-Dioxane	88	3.313	3.313	0.000	99	82746	0.8000	0.7771	
* 2 1,4-Dichlorobenzene-d4	152	6.210	6.210	0.000	100	681569	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00147 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00247 Amount Added: 20.00 Units: uL Run Reagent

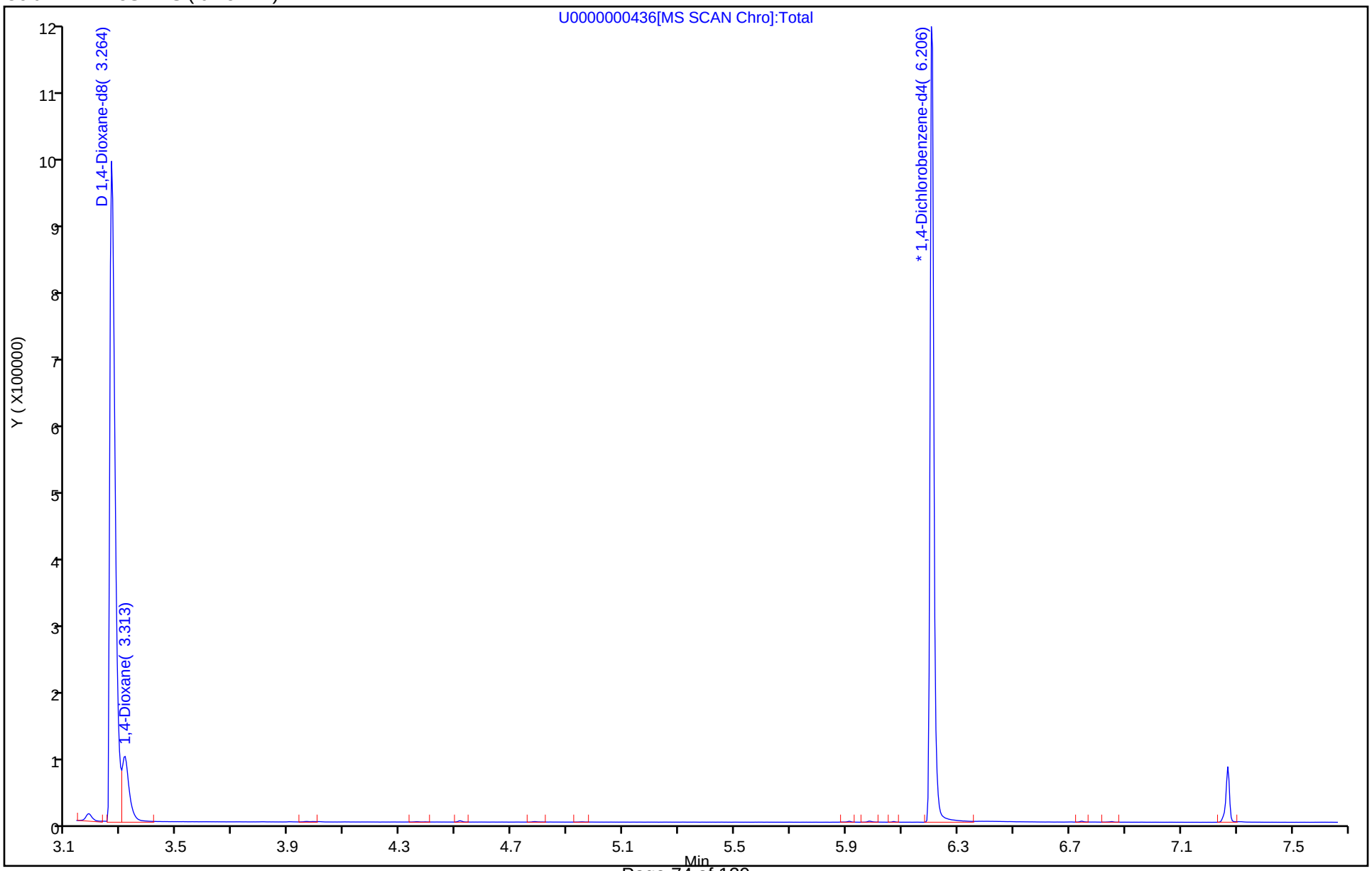
Report Date: 11-Jan-2023 15:22:22 Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000436.d

Injection Date:	11-Jan-2023 12:12:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	IC - SIM - 0.8			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d
Lims ID: IC - SIM - 5
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 11-Jan-2023 12:35:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0109710-008
Operator ID: JM Instrument ID: HP5973U
Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 11-Jan-2023 15:22:22 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: IZ8L Date: 11-Jan-2023 15:21:28

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.260	3.264	-0.004	99	4063781	50.0	42.2	
	3 1,4-Dioxane	88	3.300	3.313	-0.013	98	522566	5.00	5.68	
*	2 1,4-Dichlorobenzene-d4	152	6.210	6.210	0.000	100	706183	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00149 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00247 Amount Added: 20.00 Units: uL Run Reagent

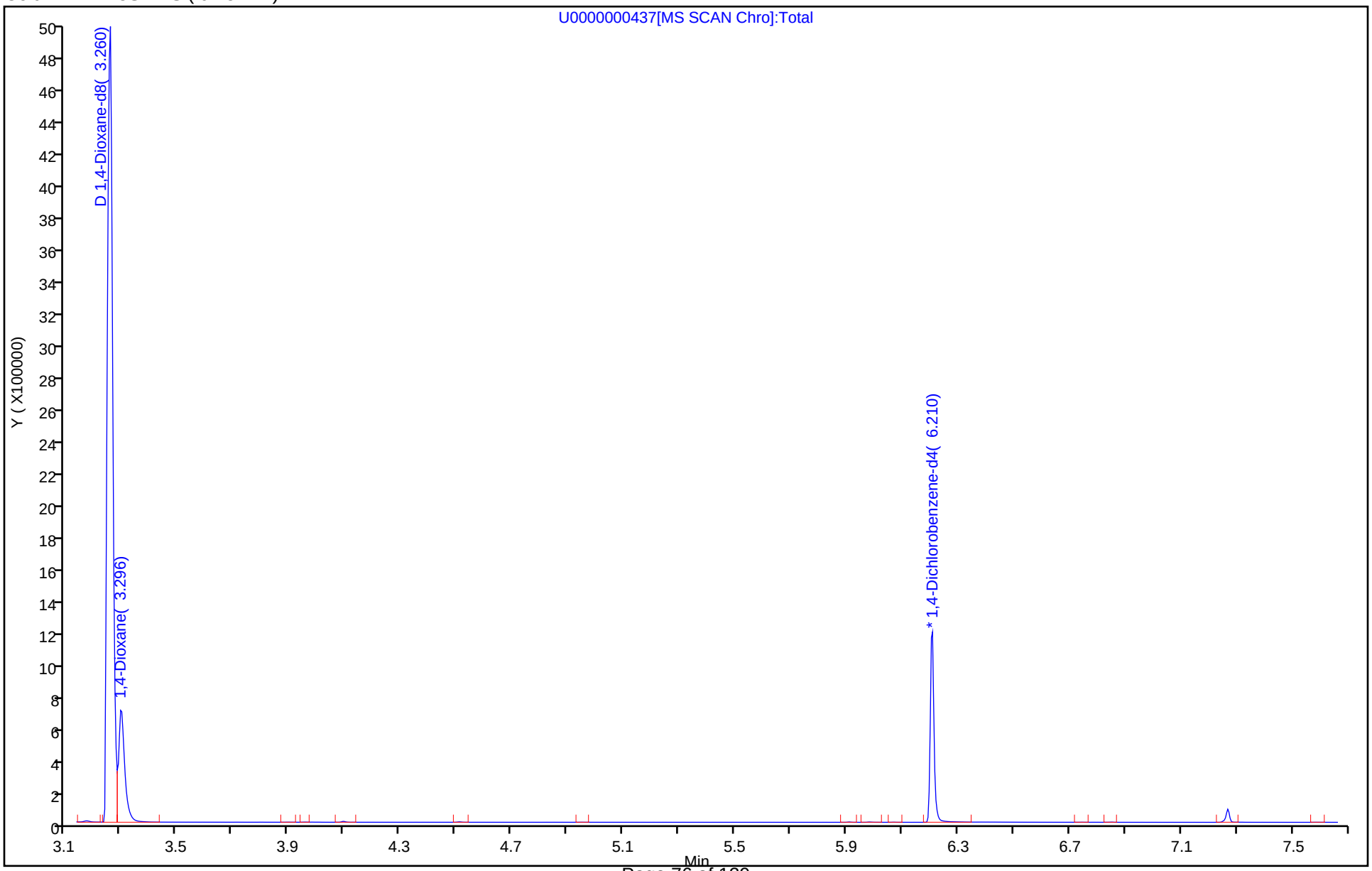
Report Date: 11-Jan-2023 15:22:22 Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Injection Date:	11-Jan-2023 12:35:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	IC - SIM - 5			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

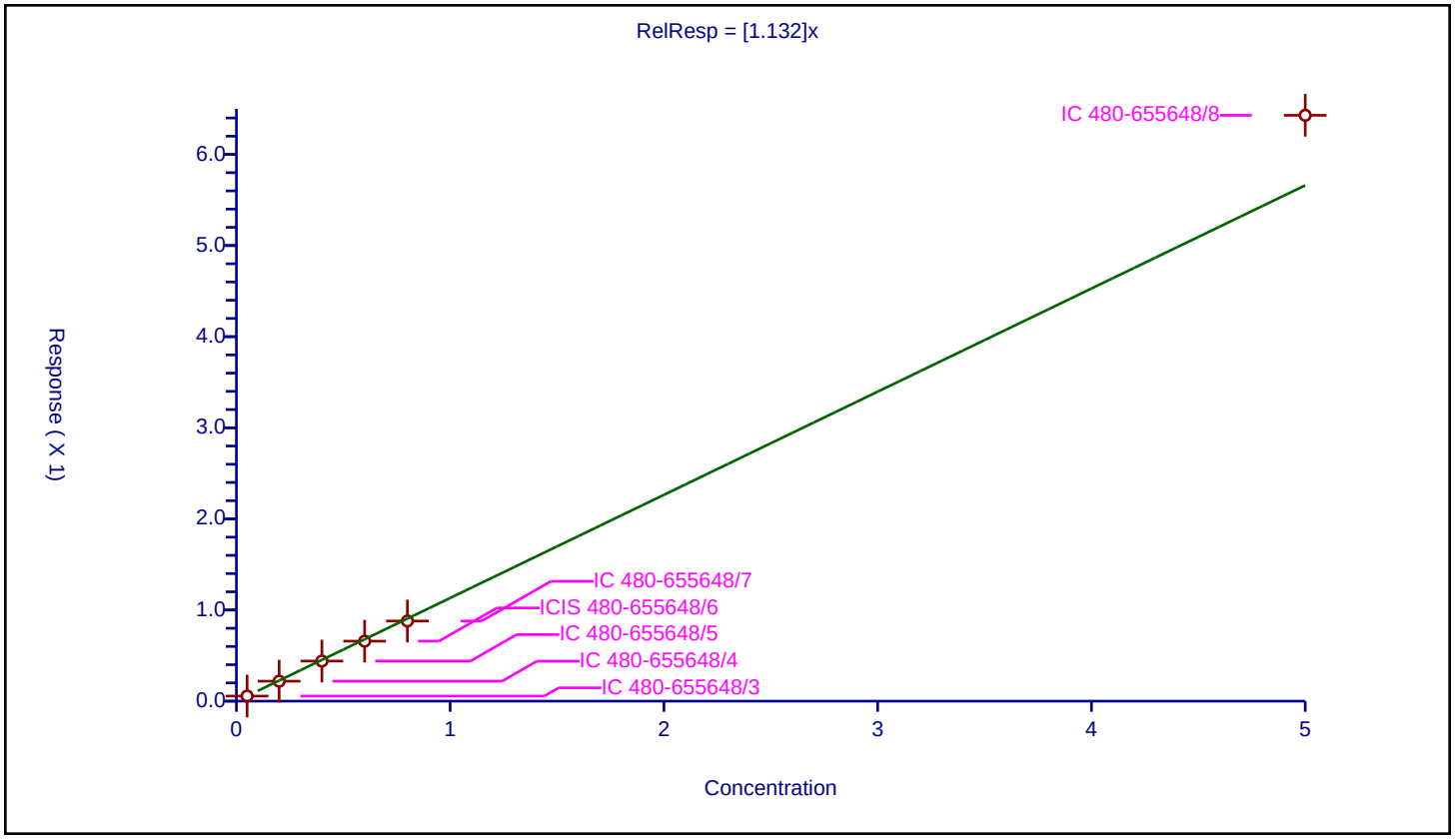
Curve Coefficients

Intercept:	0
Slope:	1.132

Error Coefficients

Standard Error:	239000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-655648/3	0.05	0.055685	0.5	47481.0	1.113709	Y
2	IC 480-655648/4	0.2	0.219216	2.0	188472.0	1.096078	Y
3	IC 480-655648/5	0.4	0.440059	4.0	379122.0	1.100147	Y
4	ICIS 480-655648/6	0.6	0.658296	6.0	575787.0	1.097159	Y
5	IC 480-655648/7	0.8	0.87983	8.0	752382.0	1.099787	Y
6	IC 480-655648/8	5.0	6.429554	50.0	4063781.0	1.285911	Y



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Lab Sample ID: ICV 480-655648/9 Calibration Date: 01/11/2023 12:58

Instrument ID: HP5973U Calib Start Date: 01/11/2023 10:44

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 01/11/2023 12:35

Lab File ID: U0000000438.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	1.132	1.112	0.0100	295	300	-1.8	20.0
1,4-Dioxane-d8	Ave	0.5456	0.5312	0.0100	5840	6000	-2.6	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000438.d
Lims ID: ICV - SIM - 0.3
Client ID:
Sample Type: ICV
Inject. Date: 11-Jan-2023 12:58:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0109710-009
Operator ID: JM Instrument ID: HP5973U
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 11-Jan-2023 15:22:32 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: IZ8L Date: 11-Jan-2023 15:21:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	3.264	3.264	0.000	99	568054	6.00	5.84	
3 1,4-Dioxane	88	3.313	3.313	0.000	98	31571	0.3000	0.2945	
* 2 1,4-Dichlorobenzene-d4	152	6.210	6.210	0.000	100	712909	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_SIMSS_WRK_00022 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00247 Amount Added: 20.00 Units: uL Run Reagent

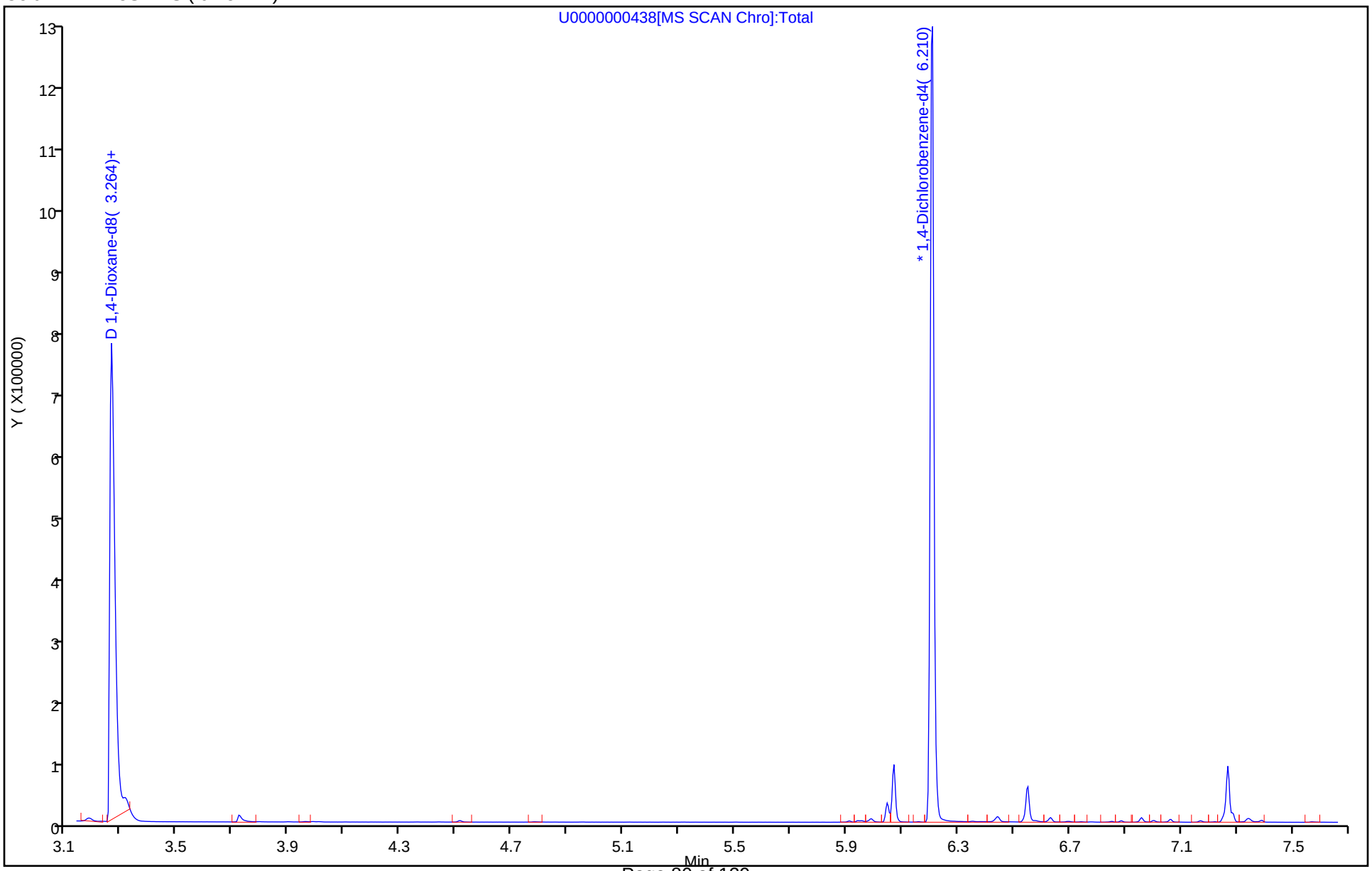
Report Date: 11-Jan-2023 15:22:33 Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000438.d

Injection Date:	11-Jan-2023 12:58:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	ICV - SIM - 0.3			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Lab Sample ID: CCVIS 480-662912/3 Calibration Date: 03/27/2023 12:04

Instrument ID: HP5973U Calib Start Date: 01/11/2023 10:44

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 01/11/2023 12:35

Lab File ID: U0000001035.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	1.132	1.107	0.0100	587	600	-2.2	20.0
1,4-Dioxane-d8	Ave	0.5456	0.5444	0.0100	5990	6000	-0.2	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001035.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 27-Mar-2023 12:04:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 3
Operator ID: JM Instrument ID: HP5973U
Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 28-Mar-2023 10:09:37 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1650

First Level Reviewer: O0RH Date: 27-Mar-2023 12:37:25

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.252	3.252	0.000	100	381026	6.00	5.99	
	3 1,4-Dioxane	88	3.297	3.297	0.000	99	42181	0.6000	0.5867	
*	2 1,4-Dichlorobenzene-d4	152	6.198	6.198	0.000	100	466576	4.00	4.00	

QC Flag Legend
Processing Flags

Reagents:
MB_1,4SIM_WRK_00146 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00250 Amount Added: 20.00 Units: uL Run Reagent

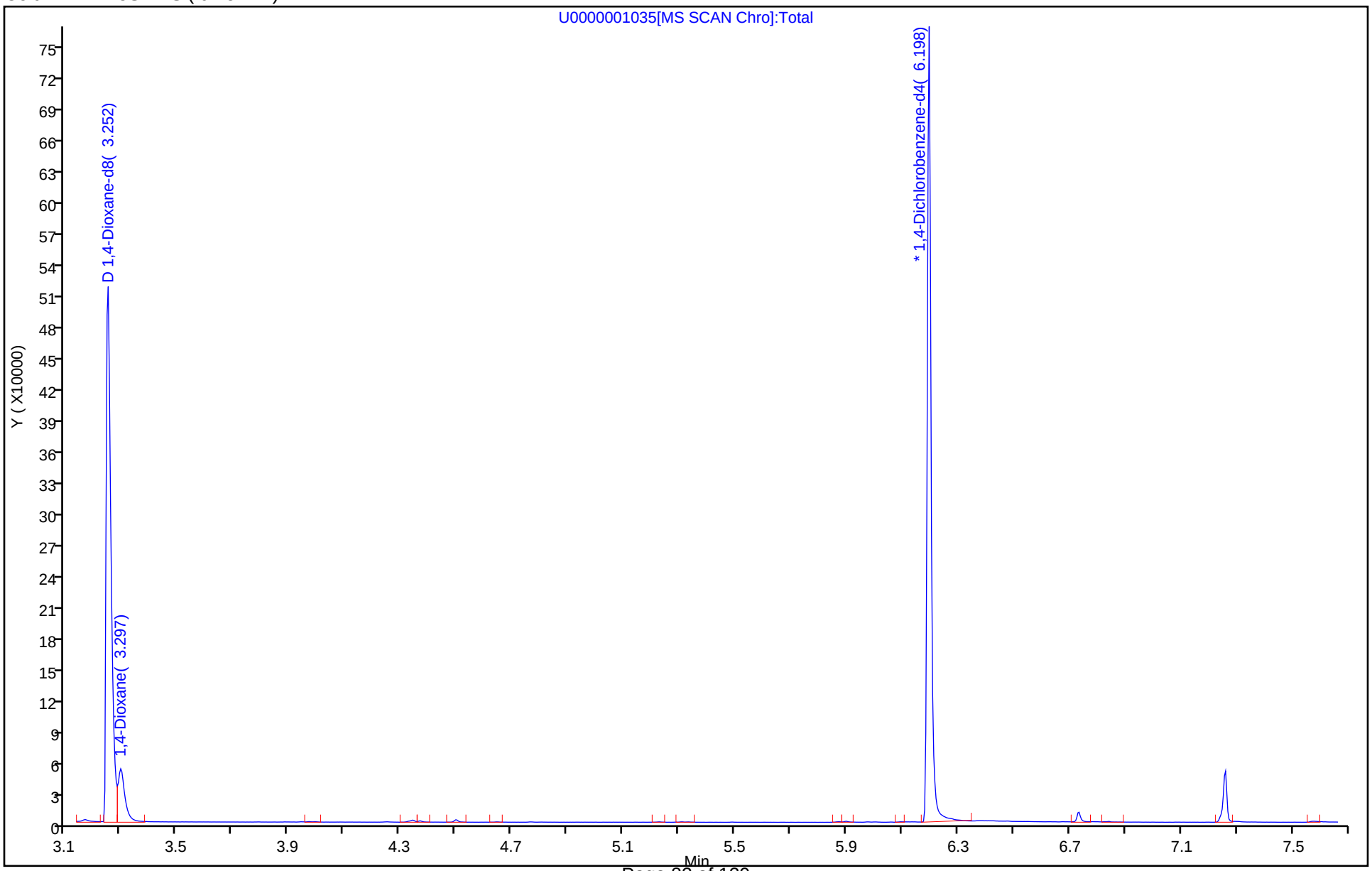
Report Date: 28-Mar-2023 10:09:38 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001035.d

Injection Date:	27-Mar-2023 12:04:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Lab Sample ID: CCVIS 480-663299/3 Calibration Date: 03/30/2023 12:58

Instrument ID: HP5973U Calib Start Date: 01/11/2023 10:44

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 01/11/2023 12:35

Lab File ID: U0000001065.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	1.132	1.101	0.0100	583	600	-2.8	20.0
1,4-Dioxane-d8	Ave	0.5456	0.5648	0.0100	6210	6000	3.5	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230330-110796.b\U0000001065.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 30-Mar-2023 12:58:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0110796-003
Operator ID: JM Instrument ID: HP5973U
Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230330-110796.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 31-Mar-2023 15:47:41 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1619

First Level Reviewer: IZ8L Date: 31-Mar-2023 15:46:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	3.248	3.248	0.000	98	394187	6.00	6.21	
3 1,4-Dioxane	88	3.296	3.296	0.000	98	43382	0.6000	0.5833	
* 2 1,4-Dichlorobenzene-d4	152	6.198	6.198	0.000	100	465249	4.00	4.00	

QC Flag Legend
Processing Flags

Reagents:
MB_1,4SIM_WRK_00146 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00250 Amount Added: 20.00 Units: uL Run Reagent

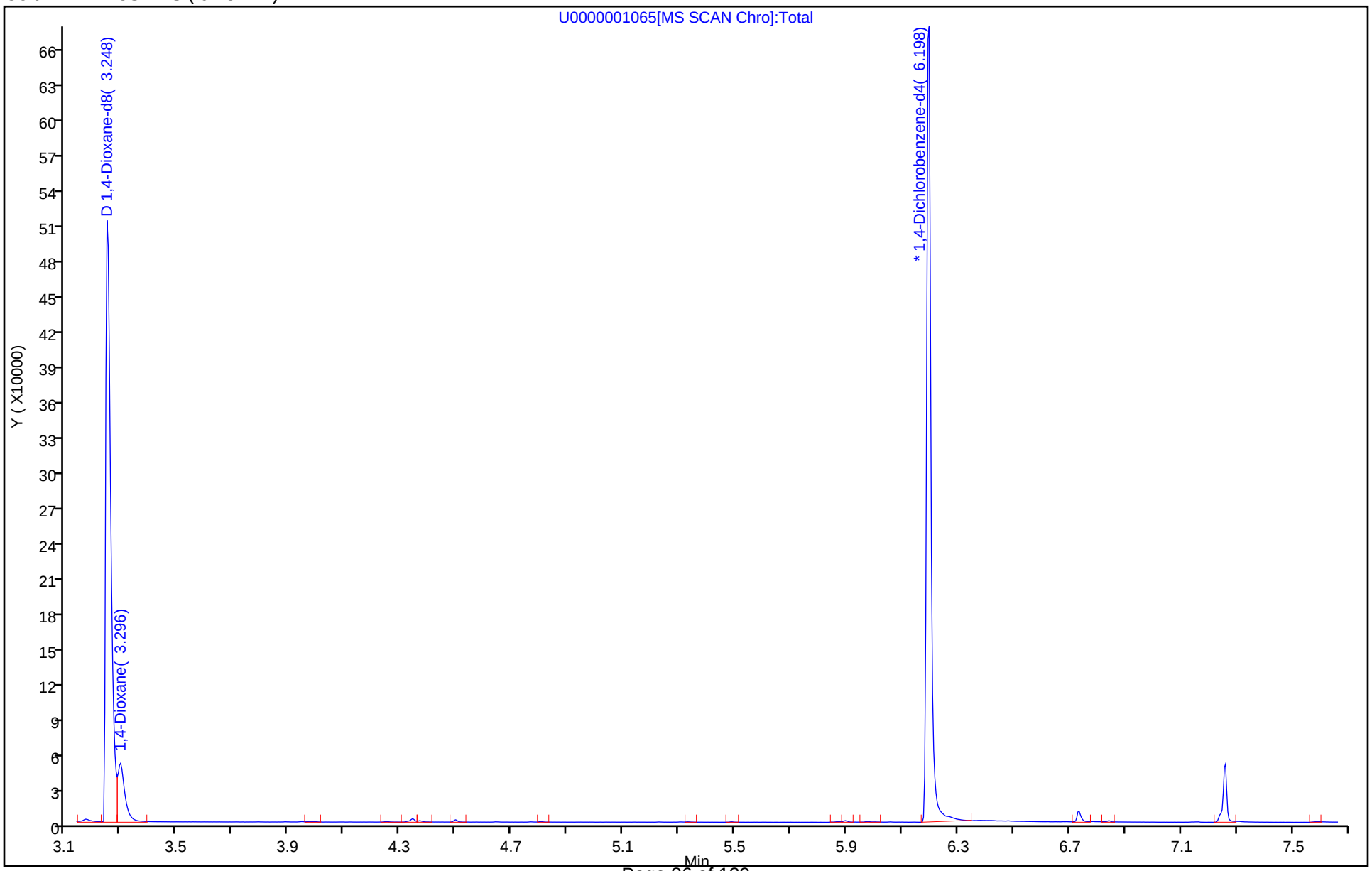
Report Date: 31-Mar-2023 15:47:41 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230330-110796.b\U0000001065.d

Injection Date:	30-Mar-2023 12:58:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000431.d
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 11-Jan-2023 10:14:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0109710-002
Operator ID: JM Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 11-Jan-2023 15:22:32 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: Deconvolution ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: IZ8L Date: 11-Jan-2023 11:34:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 DFTPP									
7 4,4'-DDE	246	11.066	11.066	0.000	0	40480		NR	
5 4,4'-DDD	235	11.365	11.365	0.000	98	249658		NR	
6 4,4'-DDT	235	11.653	11.653	0.000	98	3293421	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

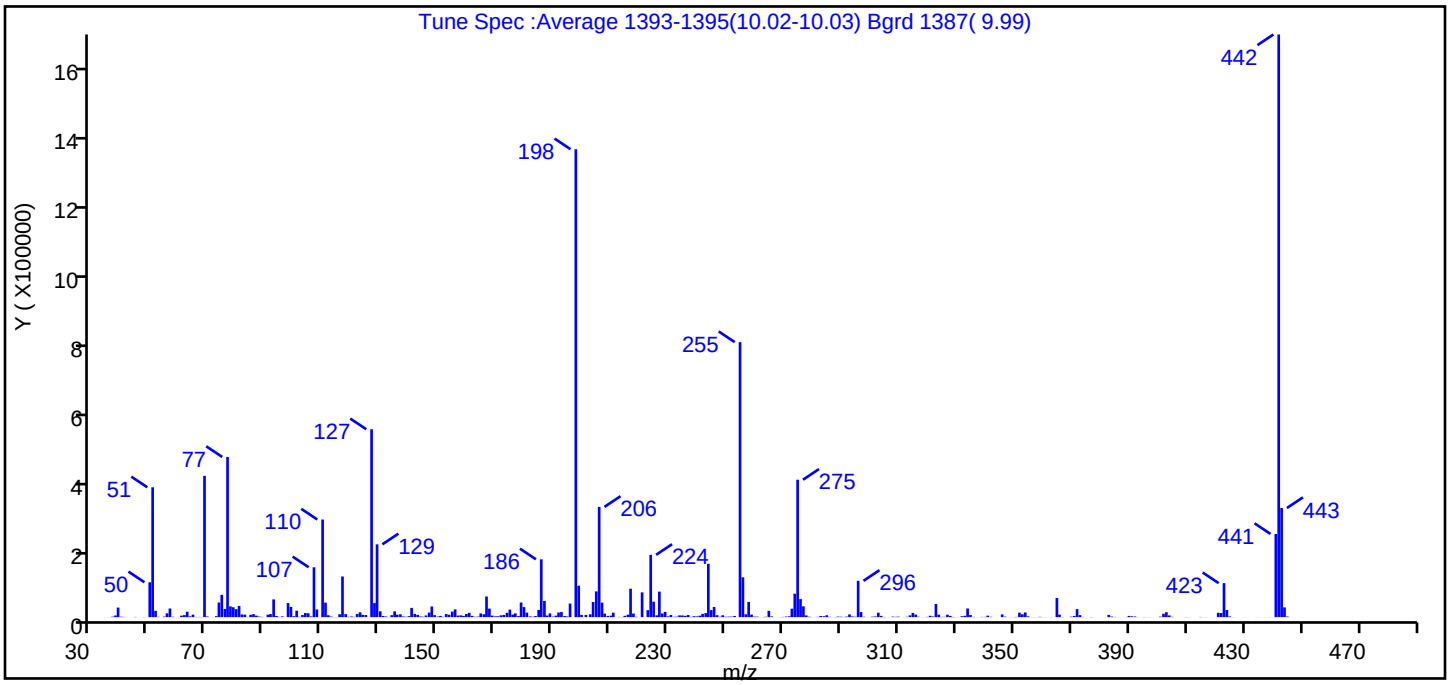
MB_DFTPP_WRK_00414 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000431.d
Injection Date: 11-Jan-2023 10:14:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 1,4_Dx_SIM_HP5973U Limit Group: MB - 8270D SIM ID ICAL
Tune Method: DFTPP Method 8270D, BP 198

4 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (80.3)
51	10-80% of the base peak	27.7
68	<2% of mass 69	0.0 (0.1)
69	Present	30.2
70	<2% of mass 69	0.1 (0.5)
127	10-80% of the base peak	40.2
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.7
275	10-60% of the base peak	29.4
365	>1% of mass 198	4.1
441	present but <24% of mass 442	17.8 (14.3)
442	base peak, or >50% of 198	124.5
443	15-24% of mass 442	23.3 (18.7)

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000431.d\1,4_Dx_SIM_HP5973U.rslt\s
Injection Date: 11-Jan-2023 10:14:30
Spectrum: Tune Spec :Average 1393-1395(10.02-10.03) Bgrd 1387(9.99)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 384

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	136	139.00	1111	240.00	2106	338.00	39
36.00	233	140.00	2769	241.00	4123	339.00	669
37.00	1433	141.00	26264	242.00	9289	340.00	757
38.00	4778	142.00	9298	243.00	11420	341.00	4225
39.00	27168	143.00	6274	244.00	151360	342.00	937
40.00	1204	144.00	1792	245.00	19888	343.00	85
41.00	708	145.00	1200	246.00	28792	344.00	105
44.00	29	146.00	4775	247.00	5547	346.00	7685
45.00	600	147.00	12939	248.00	1242	347.00	1450
47.00	60	148.00	30240	249.00	5275	348.00	238
48.00	346	149.00	5708	250.00	1150	350.00	404
50.00	98976	150.00	1686	251.00	1447	351.00	776
51.00	368512	151.00	3509	252.00	1417	352.00	12762
52.00	18072	152.00	962	253.00	3422	353.00	8177
53.00	873	153.00	8684	255.00	780608	354.00	13314
55.00	1554	154.00	6915	256.00	113120	355.00	2402
56.00	10969	155.00	15615	257.00	8134	356.00	198
57.00	24536	156.00	22056	258.00	43160	357.00	297
58.00	1188	157.00	4453	259.00	7268	358.00	198
59.00	147	158.00	5111	260.00	1409	359.00	986
60.00	243	159.00	3524	261.00	1383	360.00	307
61.00	4264	160.00	8850	262.00	281	361.00	266
62.00	5769	161.00	12188	263.00	459	362.00	130
63.00	15381	162.00	3503	264.00	981	363.00	253
64.00	2303	163.00	1111	265.00	17928	365.00	54280
65.00	7131	164.00	1538	266.00	2110	366.00	7100
66.00	594	165.00	10578	267.00	162	367.00	422
67.00	561	166.00	8313	269.00	269	368.00	52
68.00	509	167.00	58608	270.00	721	369.00	78
69.00	400960	168.00	24312	271.00	1656	370.00	1373
70.00	1872	169.00	4365	272.00	2375	371.00	3298
72.00	182	170.00	2304	273.00	23984	372.00	22816
73.00	2890	171.00	2472	274.00	66576	373.00	5779

Report Date: 11-Jan-2023 15:22:32 Chrom Revision: 2.3 20-Dec-2022 14:14:06
Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000431.d\1,4_Dx_SIM_HP5973U.rslt\s
Injection Date: 11-Jan-2023 10:14:30
Spectrum: Tune Spec :Average 1393-1395(10.02-10.03) Bgrd 1387(9.99)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 384

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	41432	172.00	5112	275.00	390016	374.00	637
75.00	63320	173.00	6250	276.00	51200	375.00	37
76.00	23320	174.00	12204	277.00	30752	377.00	512
77.00	454656	175.00	21288	278.00	4795	378.00	109
78.00	30392	176.00	7307	279.00	1210	379.00	96
79.00	27984	177.00	10730	280.00	282	382.00	111
80.00	22720	178.00	3093	281.00	138	383.00	6297
81.00	31728	179.00	41544	282.00	839	384.00	1718
82.00	7607	180.00	28528	283.00	3382	385.00	651
83.00	7107	181.00	12835	284.00	2620	386.00	88
84.00	644	182.00	2104	285.00	5344	387.00	80
85.00	6733	183.00	1164	286.00	960	389.00	272
86.00	8586	184.00	3089	287.00	125	390.00	3488
87.00	4330	185.00	20392	288.00	462	391.00	2369
88.00	1621	186.00	164160	289.00	1619	392.00	1814
89.00	786	187.00	45904	290.00	1139	393.00	244
90.00	102	188.00	4644	291.00	576	395.00	336
91.00	7013	189.00	10625	292.00	1576	396.00	153
92.00	8803	190.00	1469	293.00	7672	397.00	290
93.00	50368	191.00	4285	294.00	1891	398.00	63
94.00	3344	192.00	13073	295.00	1202	401.00	1416
95.00	799	193.00	14686	296.00	103040	402.00	9620
96.00	2026	194.00	3142	297.00	14399	403.00	14033
98.00	40008	195.00	1914	298.00	1103	404.00	4908
99.00	29120	196.00	38496	299.00	43	405.00	933
100.00	2757	198.00	1328128	300.00	199	406.00	117
101.00	18400	199.00	89216	301.00	1444	408.00	82
102.00	945	200.00	6431	302.00	1965	409.00	131
103.00	5968	202.00	6324	303.00	12675	410.00	377
104.00	11763	203.00	8019	304.00	3594	411.00	163
105.00	10899	204.00	43032	305.00	520	412.00	50
106.00	2074	205.00	73096	306.00	85	414.00	35
107.00	141568	206.00	312960	307.00	235	415.00	575
108.00	21680	207.00	41224	308.00	1492	416.00	264

Report Date: 11-Jan-2023 15:22:32 Chrom Revision: 2.3 20-Dec-2022 14:14:06
Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000431.d\1,4_Dx_SIM_HP5973U.rslt\s
Injection Date: 11-Jan-2023 10:14:30
Spectrum: Tune Spec :Average 1393-1395(10.02-10.03) Bgrd 1387(9.99)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 384

m/z	Y	m/z	Y	m/z	Y	m/z	Y
109.00	116	208.00	10051	309.00	1002	417.00	144
110.00	277120	209.00	3469	310.00	1373	419.00	114
111.00	41088	210.00	4217	311.00	92	420.00	75
112.00	5298	211.00	12703	312.00	345	421.00	12349
113.00	1660	213.00	638	313.00	1086	422.00	11691
114.00	407	214.00	379	314.00	5018	423.00	96496
115.00	305	215.00	3834	315.00	12062	424.00	20248
116.00	8228	216.00	7057	316.00	7166	425.00	2099
117.00	115352	217.00	80664	317.00	1198	426.00	202
118.00	8557	218.00	10224	318.00	55	427.00	134
119.00	1083	219.00	1022	319.00	243	430.00	102
120.00	1878	221.00	70256	320.00	732	431.00	108
121.00	759	223.00	19944	321.00	3880	432.00	84
122.00	8975	224.00	176832	322.00	1836	434.00	40
123.00	13753	225.00	43848	323.00	37416	434.00	158
124.00	6429	226.00	5139	324.00	6980	435.00	47
125.00	6113	227.00	72472	325.00	705	436.00	87
127.00	533312	228.00	10370	326.00	777	437.00	119
128.00	39968	229.00	14908	327.00	6838	439.00	135
129.00	206656	230.00	2154	328.00	3493	439.00	243
130.00	16600	231.00	6000	329.00	690	441.00	236096
131.00	3185	232.00	1049	330.00	299	442.00	1653760
132.00	1838	233.00	1367	331.00	175	443.00	309760
133.00	426	234.00	5121	332.00	2626	444.00	27776
134.00	5667	235.00	4801	333.00	3697	445.00	1752
135.00	16456	236.00	3619	334.00	24616	446.00	60
136.00	7117	237.00	5994	335.00	6033	450.00	35
137.00	8060	238.00	868	336.00	756	458.00	34
138.00	1893	239.00	2647	337.00	137	489.00	37

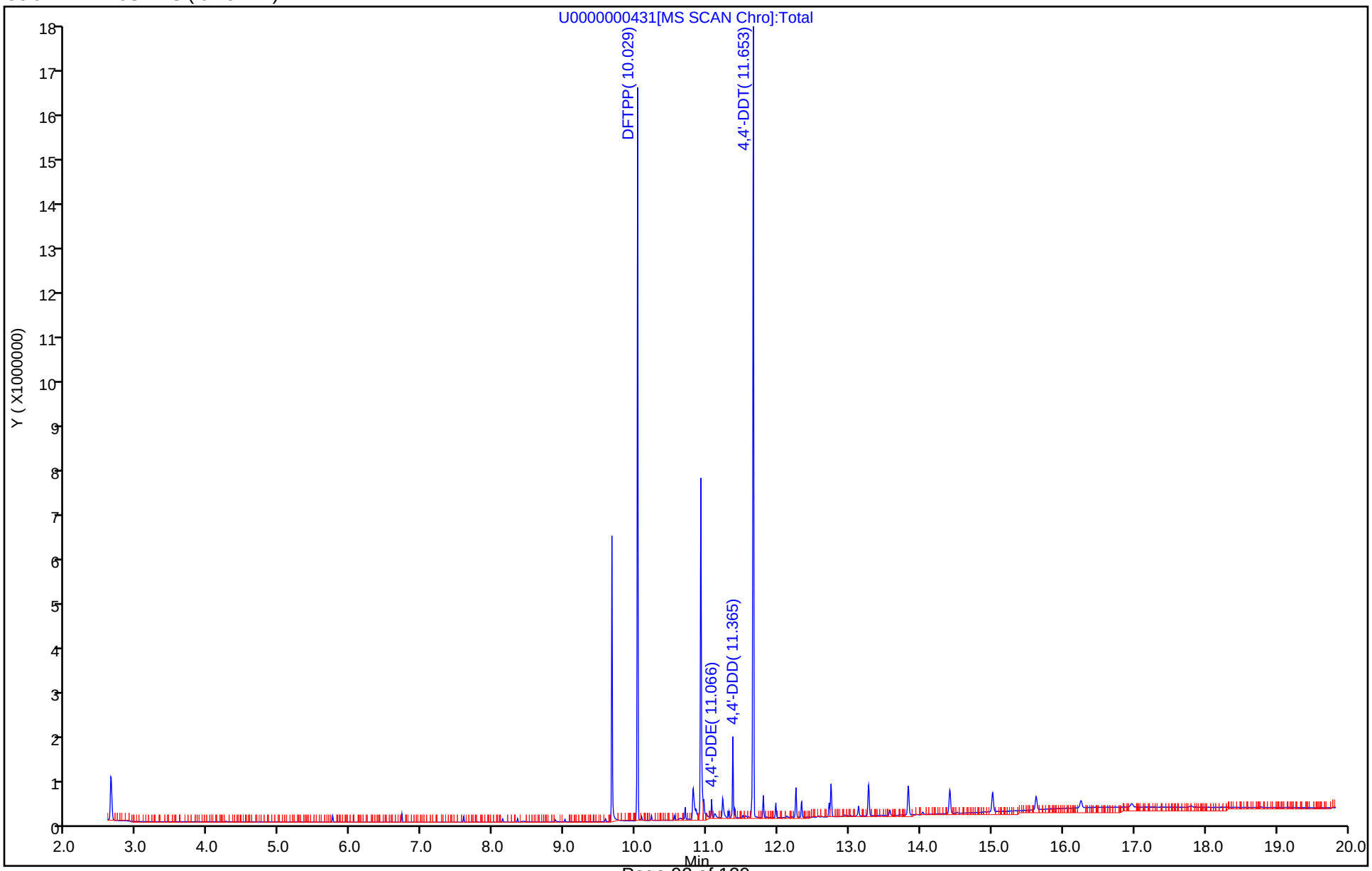
Report Date: 11-Jan-2023 15:22:33 Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000431.d

Injection Date:	11-Jan-2023 10:14:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



Breakdown Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000431.d
Injection Date: 11-Jan-2023 10:14:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 1,4_Dx_SIM_HP5973U Limit Group: MB - 8270D SIM ID ICAL

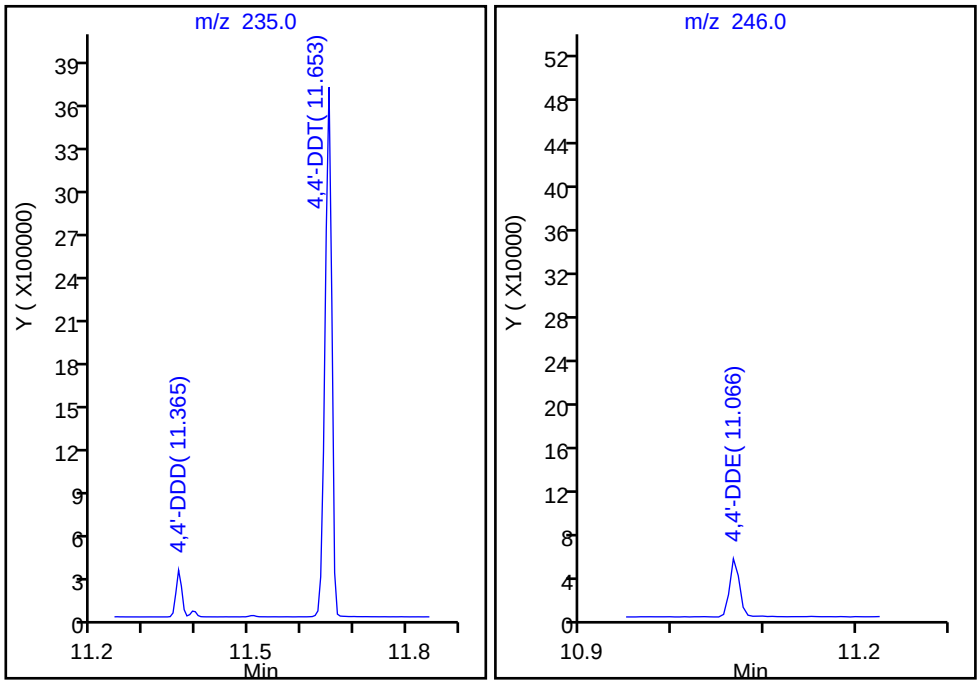
6 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

6 4,4'-DDT, Area = 3293421
5 4,4'-DDD, Area = 249658
7 4,4'-DDE, Area = 40480

%Breakdown: 8.10%, <= 20.00%
Passed



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001034.d
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 27-Mar-2023 11:32:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 2
Operator ID: JM Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 28-Mar-2023 10:09:36 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: Deconvolution ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1650

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 DFTPP									
7 4,4'-DDE	246	11.055	11.055	0.000	0	2429		NR	
5 4,4'-DDD	235	11.354	11.354	0.000	62	8931		NR	
6 4,4'-DDT	235	11.642	11.642	0.000	98	2610469	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

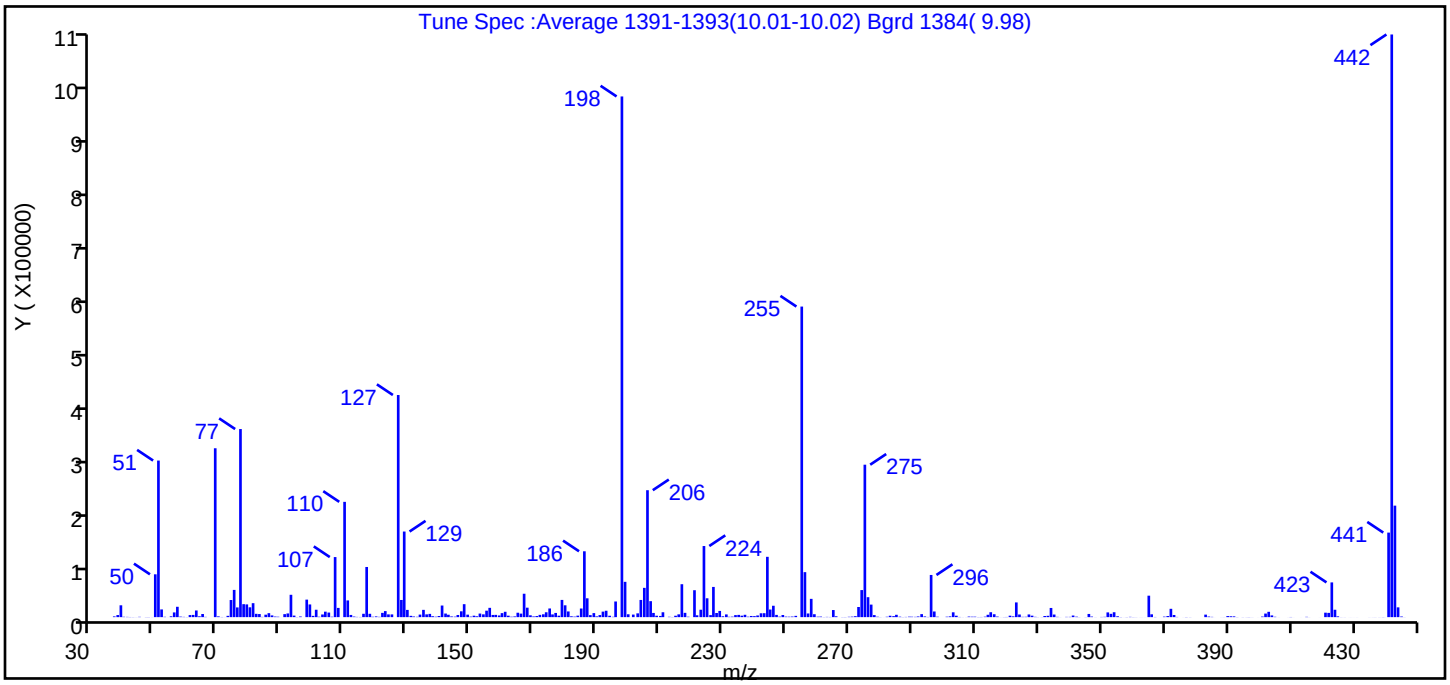
MB_DFTPP_WRK_00416 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001034.d
Injection Date: 27-Mar-2023 11:32:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 1,4_Dx_SIM_HP5973U Limit Group: MB - 8270D SIM ID ICAL
Tune Method: DFTPP Method 8270D, BP 198

4 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (89.4)
51	10-80% of the base peak	30.1
68	<2% of mass 69	0.0 (0.0)
69	Present	32.4
70	<2% of mass 69	0.1 (0.5)
127	10-80% of the base peak	42.7
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.8
275	10-60% of the base peak	29.3
365	>1% of mass 198	4.1
441	present but <24% of mass 442	16.2 (14.5)
442	base peak, or >50% of 198	111.9
443	15-24% of mass 442	21.4 (19.1)

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001034.d\1,4_Dx_SIM_HP5973U.rslt\s
Injection Date: 27-Mar-2023 11:32:30
Spectrum: Tune Spec :Average 1391-1393(10.01-10.02) Bgrd 1384(9.98)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 376

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1401	136.00	5201	234.00	3808	331.00	178
38.00	3904	137.00	6087	235.00	4203	332.00	2102
39.00	22136	138.00	1724	236.00	2742	333.00	2492
40.00	682	139.00	798	237.00	4398	334.00	17160
41.00	485	140.00	2087	238.00	844	335.00	4863
42.00	294	141.00	21712	239.00	2178	336.00	561
43.00	211	142.00	6719	240.00	1878	337.00	100
44.00	111	143.00	4481	241.00	3109	339.00	490
45.00	578	144.00	1311	242.00	7227	340.00	503
47.00	223	145.00	902	243.00	7372	341.00	3028
48.00	244	146.00	4030	244.00	112744	342.00	891
49.00	101	147.00	10901	245.00	14237	343.00	198
50.00	80056	148.00	24240	246.00	21288	345.00	172
51.00	292672	149.00	4639	247.00	4200	346.00	5977
52.00	14427	150.00	984	248.00	927	347.00	1085
53.00	641	151.00	2734	249.00	4001	348.00	113
54.00	47	152.00	1600	250.00	951	350.00	381
55.00	1553	153.00	6687	251.00	827	351.00	573
56.00	8827	154.00	5250	252.00	1091	352.00	8861
57.00	19360	155.00	12059	253.00	2409	353.00	6190
58.00	989	156.00	17392	255.00	580480	354.00	9163
59.00	488	157.00	4111	256.00	84088	355.00	1648
60.00	204	158.00	4237	257.00	6836	356.00	267
61.00	3894	159.00	3095	258.00	34184	357.00	57
62.00	4165	160.00	7506	259.00	5465	358.00	223
63.00	12443	161.00	10027	260.00	875	359.00	530
64.00	1562	162.00	2726	261.00	1028	360.00	203
65.00	5868	163.00	806	262.00	223	361.00	136
66.00	490	164.00	1335	263.00	471	362.00	60
67.00	19	165.00	8240	264.00	339	363.00	54
69.00	315648	166.00	6606	265.00	13278	364.00	59
70.00	1437	167.00	43744	266.00	1579	365.00	40112
71.00	306	168.00	17688	267.00	17	366.00	5296

Report Date: 28-Mar-2023 10:09:37 Chrom Revision: 2.3 16-Mar-2023 15:40:40
Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001034.d\1,4_Dx_SIM_HP5973U.rslt\s
Injection Date: 27-Mar-2023 11:32:30
Spectrum: Tune Spec :Average 1391-1393(10.01-10.02) Bgrd 1384(9.98)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 376

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	100	169.00	3449	268.00	241	367.00	337
73.00	2436	170.00	1290	269.00	275	369.00	34
74.00	31992	171.00	2053	270.00	665	370.00	956
75.00	50912	172.00	4255	271.00	968	371.00	2062
76.00	18160	173.00	5317	272.00	1783	372.00	15584
77.00	351552	174.00	9102	273.00	18960	373.00	4016
78.00	24248	175.00	16206	274.00	50600	374.00	403
79.00	23800	176.00	5082	275.00	284928	376.00	58
80.00	18392	177.00	7865	276.00	37296	377.00	274
81.00	26104	178.00	2672	277.00	23440	378.00	159
82.00	6192	179.00	32192	278.00	3816	383.00	4694
83.00	5793	180.00	22120	279.00	807	384.00	1107
84.00	463	181.00	10649	280.00	187	385.00	517
85.00	4593	182.00	1597	281.00	54	386.00	43
86.00	7453	183.00	965	282.00	713	388.00	78
87.00	3232	184.00	2796	283.00	2613	389.00	109
88.00	1059	185.00	16147	284.00	1857	390.00	1971
89.00	779	186.00	123088	285.00	4381	391.00	1602
90.00	38	187.00	35208	286.00	890	392.00	1422
91.00	5607	188.00	3785	287.00	219	393.00	210
92.00	6902	189.00	7566	288.00	415	395.00	156
93.00	41776	190.00	1408	289.00	909	396.00	136
94.00	2883	191.00	3833	290.00	784	397.00	227
95.00	252	192.00	10318	291.00	561	398.00	102
96.00	1245	193.00	11936	292.00	1287	400.00	47
98.00	32752	194.00	2612	293.00	5642	401.00	1080
99.00	23736	195.00	603	294.00	1326	402.00	6659
100.00	2384	196.00	29264	295.00	371	403.00	9975
101.00	13835	198.00	973184	296.00	78840	404.00	3227
102.00	749	199.00	66000	297.00	10580	405.00	660
103.00	4993	200.00	5364	298.00	834	406.00	70
104.00	10249	202.00	4813	301.00	811	409.00	58
105.00	8542	203.00	7090	302.00	1432	410.00	307
106.00	778	204.00	32144	303.00	9052	411.00	39

Report Date: 28-Mar-2023 10:09:37 Chrom Revision: 2.3 16-Mar-2023 15:40:40
Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001034.d\1,4_Dx_SIM_HP5973U.rslt\s
Injection Date: 27-Mar-2023 11:32:30
Spectrum: Tune Spec :Average 1391-1393(10.01-10.02) Bgrd 1384(9.98)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 376

m/z	Y	m/z	Y	m/z	Y	m/z	Y
107.00	112272	205.00	54744	304.00	2663	413.00	37
108.00	17256	206.00	237248	305.00	362	415.00	554
110.00	215488	207.00	29864	306.00	95	416.00	95
111.00	31256	208.00	7853	307.00	98	419.00	46
112.00	4111	209.00	2661	308.00	1088	421.00	8331
113.00	1071	210.00	2235	309.00	828	422.00	7956
114.00	442	211.00	9132	310.00	851	423.00	64928
115.00	337	213.00	678	311.00	278	424.00	13830
116.00	6282	214.00	292	312.00	328	425.00	1468
117.00	93752	215.00	2630	313.00	888	426.00	130
118.00	6261	216.00	5194	314.00	4407	427.00	104
119.00	710	217.00	61560	315.00	9185	428.00	39
120.00	1393	218.00	8045	316.00	5431	429.00	46
121.00	573	219.00	821	317.00	1081	430.00	36
122.00	7964	221.00	50320	318.00	82	431.00	61
123.00	11281	222.00	3478	319.00	215	435.00	87
124.00	5145	223.00	13875	320.00	328	436.00	81
125.00	5120	224.00	132928	321.00	2686	437.00	116
127.00	415168	225.00	35256	322.00	1423	438.00	120
128.00	32088	226.00	3787	323.00	27520	439.00	193
129.00	160000	227.00	56464	324.00	4929	440.00	69
130.00	13544	228.00	7758	325.00	584	441.00	158016
131.00	2456	229.00	11611	326.00	673	442.00	1089024
132.00	1214	230.00	1610	327.00	5036	443.00	208384
133.00	643	231.00	5092	328.00	2732	444.00	18312
134.00	4762	232.00	681	329.00	584	445.00	1163
135.00	13624	233.00	924	330.00	173	446.00	128

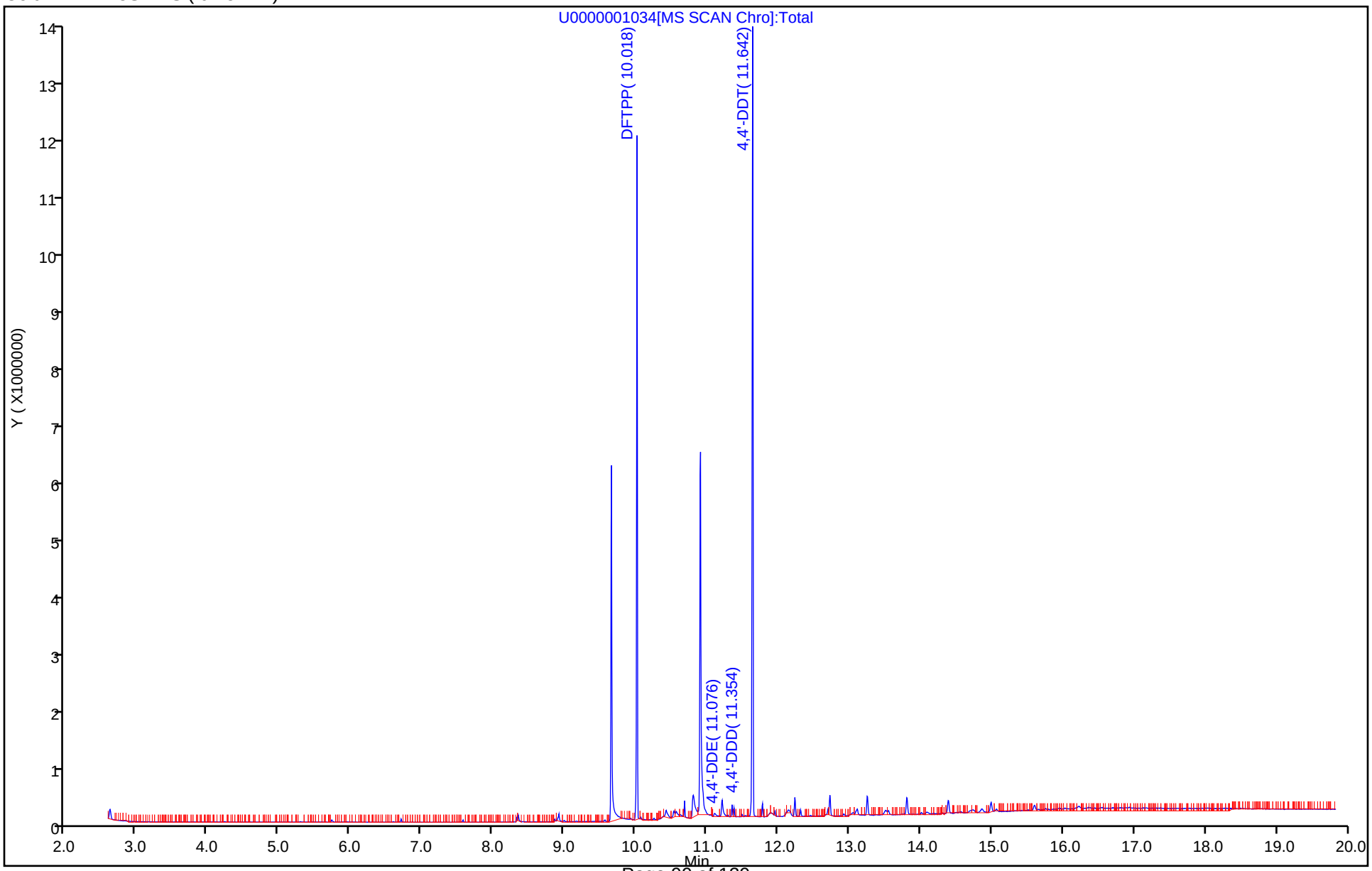
Report Date: 28-Mar-2023 10:09:37 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001034.d

Injection Date:	27-Mar-2023 11:32:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



Breakdown Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001034.d
Injection Date: 27-Mar-2023 11:32:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 1,4_Dx_SIM_HP5973U Limit Group: MB - 8270D SIM ID ICAL

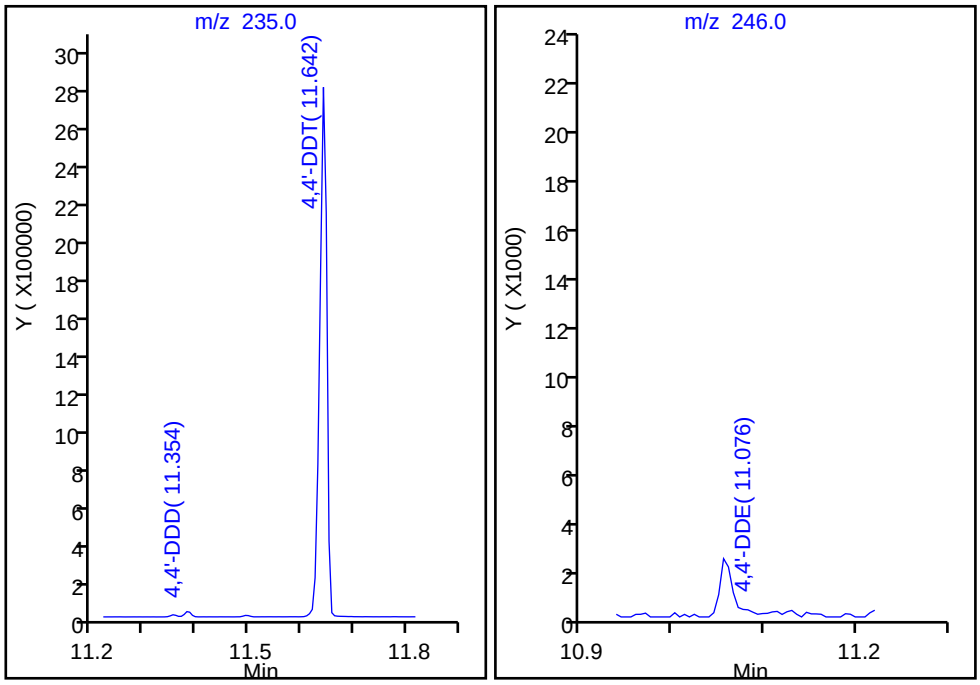
6 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

6 4,4'-DDT, Area = 2610469
5 4,4'-DDD, Area = 8931
7 4,4'-DDE, Area = 2429

%Breakdown: 0.43%, <= 20.00%
Passed



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230330-110796.b\U0000001064.d
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 30-Mar-2023 12:26:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0110796-002
Operator ID: JM Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230330-110796.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 31-Mar-2023 15:47:40 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: Deconvolution ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1619

First Level Reviewer: IZ8L Date: 30-Mar-2023 12:51:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 DFTPP									
7 4,4'-DDE	246	11.055	11.055	0.000	0	3647		NR	
5 4,4'-DDD	235	11.354	11.354	0.000	79	14069		NR	
6 4,4'-DDT	235	11.637	11.637	0.000	98	2553622	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

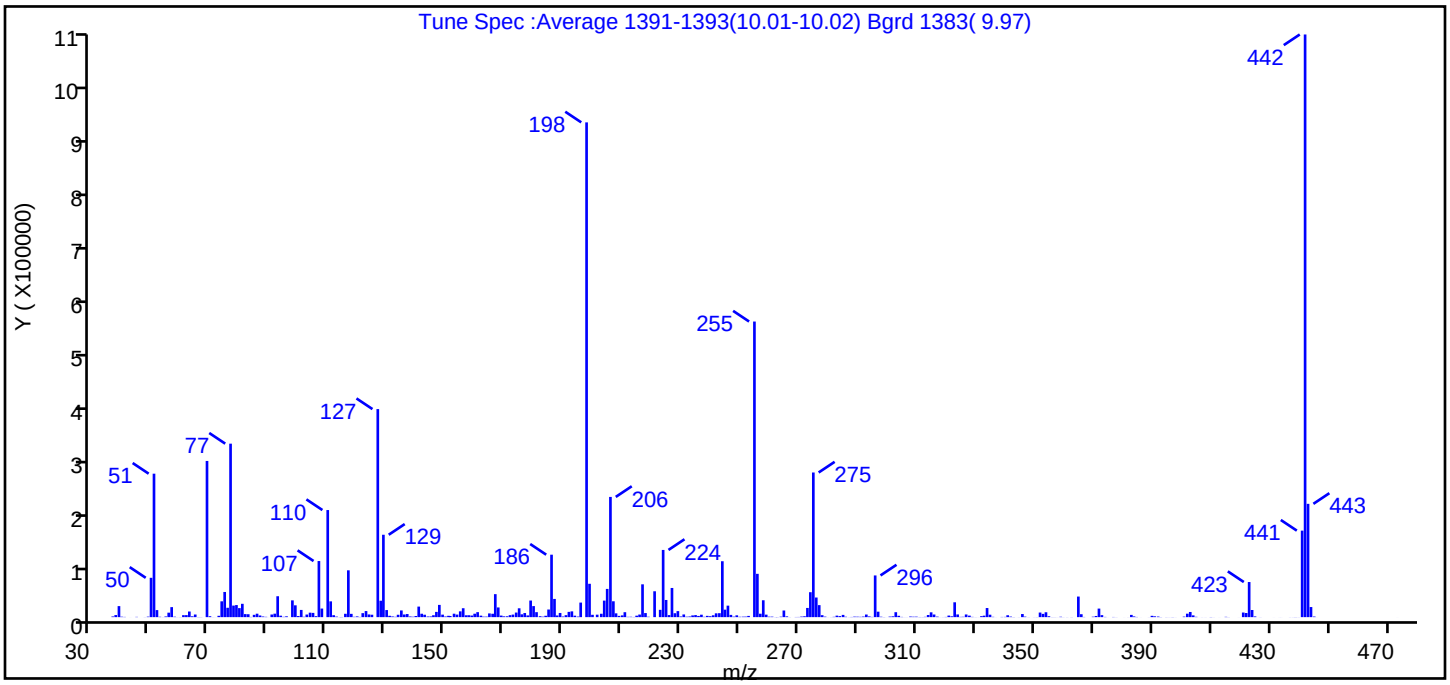
MB_DFTPP_WRK_00416 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230330-110796.b\U0000001064.d
Injection Date: 30-Mar-2023 12:26:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 1,4_Dx_SIM_HP5973U Limit Group: MB - 8270D SIM ID ICAL
Tune Method: DFTPP Method 8270D, BP 198

4 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (84.9)
51	10-80% of the base peak	29.0
68	<2% of mass 69	0.0 (0.0)
69	Present	31.6
70	<2% of mass 69	0.2 (0.6)
127	10-80% of the base peak	42.1
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.7
275	10-60% of the base peak	29.2
365	>1% of mass 198	4.2
441	present but <24% of mass 442	17.5 (14.8)
442	base peak, or >50% of 198	117.8
443	15-24% of mass 442	22.9 (19.4)

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230330-110796.b\U0000001064.d\1,4_Dx_SIM_HP5973U.rslt\s
Injection Date: 30-Mar-2023 12:26:30
Spectrum: Tune Spec :Average 1391-1393(10.01-10.02) Bgrd 1383(9.97)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 371

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1293	138.00	1255	235.00	3869	330.00	153
38.00	3902	139.00	792	236.00	2289	331.00	75
39.00	20800	140.00	2129	237.00	4611	332.00	1880
40.00	837	141.00	19904	238.00	637	333.00	2785
41.00	443	142.00	6423	239.00	2411	334.00	17208
43.00	48	143.00	4553	240.00	1739	335.00	4584
45.00	506	144.00	1214	241.00	3500	336.00	586
48.00	149	145.00	1273	242.00	7216	337.00	60
49.00	942	146.00	3588	243.00	7489	339.00	385
50.00	74208	147.00	9891	244.00	105480	340.00	474
51.00	270656	148.00	23112	245.00	14134	341.00	3572
52.00	13292	149.00	4728	246.00	21672	342.00	1031
53.00	682	150.00	1173	247.00	4247	343.00	238
54.00	134	151.00	2545	248.00	949	344.00	41
55.00	1288	152.00	2085	249.00	3431	345.00	134
56.00	8429	153.00	6467	250.00	696	346.00	5885
57.00	18888	154.00	4847	251.00	913	347.00	976
58.00	864	155.00	10928	252.00	1006	348.00	146
59.00	117	156.00	16824	253.00	2324	350.00	111
60.00	194	157.00	3497	255.00	557696	351.00	172
61.00	3744	158.00	3600	256.00	81712	352.00	8677
62.00	3823	159.00	3009	257.00	6459	353.00	6162
63.00	10628	160.00	6463	258.00	31856	354.00	9216
64.00	1565	161.00	9399	259.00	4704	355.00	1700
65.00	4957	162.00	2799	260.00	897	356.00	175
66.00	289	163.00	929	261.00	931	357.00	154
67.00	202	164.00	977	262.00	201	358.00	81
69.00	294656	165.00	7032	263.00	263	359.00	718
70.00	1710	166.00	6391	264.00	883	360.00	132
71.00	138	167.00	43384	265.00	12536	361.00	133
72.00	69	168.00	18288	266.00	1455	363.00	167
73.00	2525	169.00	2927	267.00	146	365.00	38840
74.00	29848	170.00	1509	269.00	316	366.00	5526

Report Date: 31-Mar-2023 15:47:40 Chrom Revision: 2.3 16-Mar-2023 15:40:40
Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230330-110796.b\U0000001064.d\1,4_Dx_SIM_HP5973U.rslt\s
Injection Date: 30-Mar-2023 12:26:30
Spectrum: Tune Spec :Average 1391-1393(10.01-10.02) Bgrd 1383(9.97)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 371

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	47488	171.00	1634	270.00	375	367.00	373
76.00	17672	172.00	3737	271.00	1102	370.00	849
77.00	327296	173.00	4794	272.00	1639	371.00	2199
78.00	21800	174.00	8642	273.00	17352	372.00	16138
79.00	22800	175.00	16696	274.00	47056	373.00	3764
80.00	17048	176.00	5325	275.00	272896	374.00	425
81.00	25168	177.00	7754	276.00	37040	375.00	41
82.00	5742	178.00	3256	277.00	22656	377.00	344
83.00	5488	179.00	31320	278.00	3695	378.00	133
84.00	407	180.00	20840	279.00	945	381.00	50
85.00	4369	181.00	9388	280.00	81	382.00	91
86.00	6511	182.00	1742	281.00	144	383.00	4246
87.00	3131	183.00	893	282.00	594	384.00	1332
88.00	1228	184.00	2581	283.00	2840	385.00	368
89.00	585	185.00	14391	284.00	1941	386.00	47
90.00	45	186.00	117824	285.00	4259	389.00	108
91.00	4960	187.00	34376	286.00	758	390.00	2496
92.00	6526	188.00	3187	287.00	127	391.00	1590
93.00	39456	189.00	7876	288.00	368	392.00	1129
94.00	2763	190.00	1153	289.00	969	393.00	236
95.00	601	191.00	3703	290.00	857	395.00	172
96.00	1569	192.00	9950	291.00	625	396.00	114
98.00	31656	193.00	10903	292.00	1102	397.00	234
99.00	22296	194.00	2770	293.00	4936	398.00	78
100.00	2077	195.00	1097	294.00	1390	401.00	976
101.00	13612	196.00	27464	295.00	438	402.00	6527
102.00	701	198.00	933440	296.00	78672	403.00	9758
103.00	4905	199.00	62936	297.00	10305	404.00	3330
104.00	8431	200.00	4429	298.00	787	405.00	623
105.00	8023	202.00	4663	299.00	243	406.00	33
106.00	1809	203.00	6396	300.00	48	407.00	94
107.00	105864	204.00	31200	301.00	1047	408.00	86
108.00	16209	205.00	53256	302.00	1545	410.00	280
110.00	202048	206.00	226816	303.00	9330	411.00	83

Report Date: 31-Mar-2023 15:47:40 Chrom Revision: 2.3 16-Mar-2023 15:40:40
Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230330-110796.b\U0000001064.d\1,4_Dx_SIM_HP5973U.rslt\s
Injection Date: 30-Mar-2023 12:26:30
Spectrum: Tune Spec :Average 1391-1393(10.01-10.02) Bgrd 1383(9.97)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 371

m/z	Y	m/z	Y	m/z	Y	m/z	Y
111.00	29784	207.00	29944	304.00	2543	413.00	50
112.00	3659	208.00	7173	305.00	451	415.00	571
113.00	1039	209.00	2382	306.00	110	416.00	166
114.00	221	210.00	3296	307.00	95	420.00	55
115.00	296	211.00	9322	308.00	1180	421.00	8700
116.00	6343	212.00	576	309.00	834	422.00	7807
117.00	88336	213.00	705	310.00	927	423.00	66232
118.00	6208	214.00	327	311.00	310	424.00	13460
119.00	630	215.00	2765	312.00	243	425.00	1340
120.00	1382	216.00	4869	313.00	595	426.00	39
121.00	377	217.00	61920	314.00	4016	427.00	104
122.00	7534	218.00	7705	315.00	9093	431.00	42
123.00	11480	219.00	762	316.00	4948	433.00	57
124.00	5064	221.00	48808	317.00	1000	434.00	45
125.00	4545	223.00	13790	318.00	86	437.00	113
127.00	392512	224.00	126792	319.00	138	438.00	109
128.00	30976	225.00	32384	320.00	382	439.00	195
129.00	155456	226.00	3881	321.00	2946	440.00	122
130.00	13369	227.00	55048	322.00	1538	441.00	163200
131.00	2566	228.00	7389	323.00	28024	442.00	1099264
132.00	1315	229.00	11369	324.00	5082	443.00	213760
133.00	613	230.00	1259	325.00	525	444.00	19048
134.00	4487	231.00	5074	326.00	701	445.00	1119
135.00	12635	232.00	846	327.00	5048	446.00	53
136.00	5013	233.00	1236	328.00	2864	473.00	34
137.00	5849	234.00	3256	329.00	493		

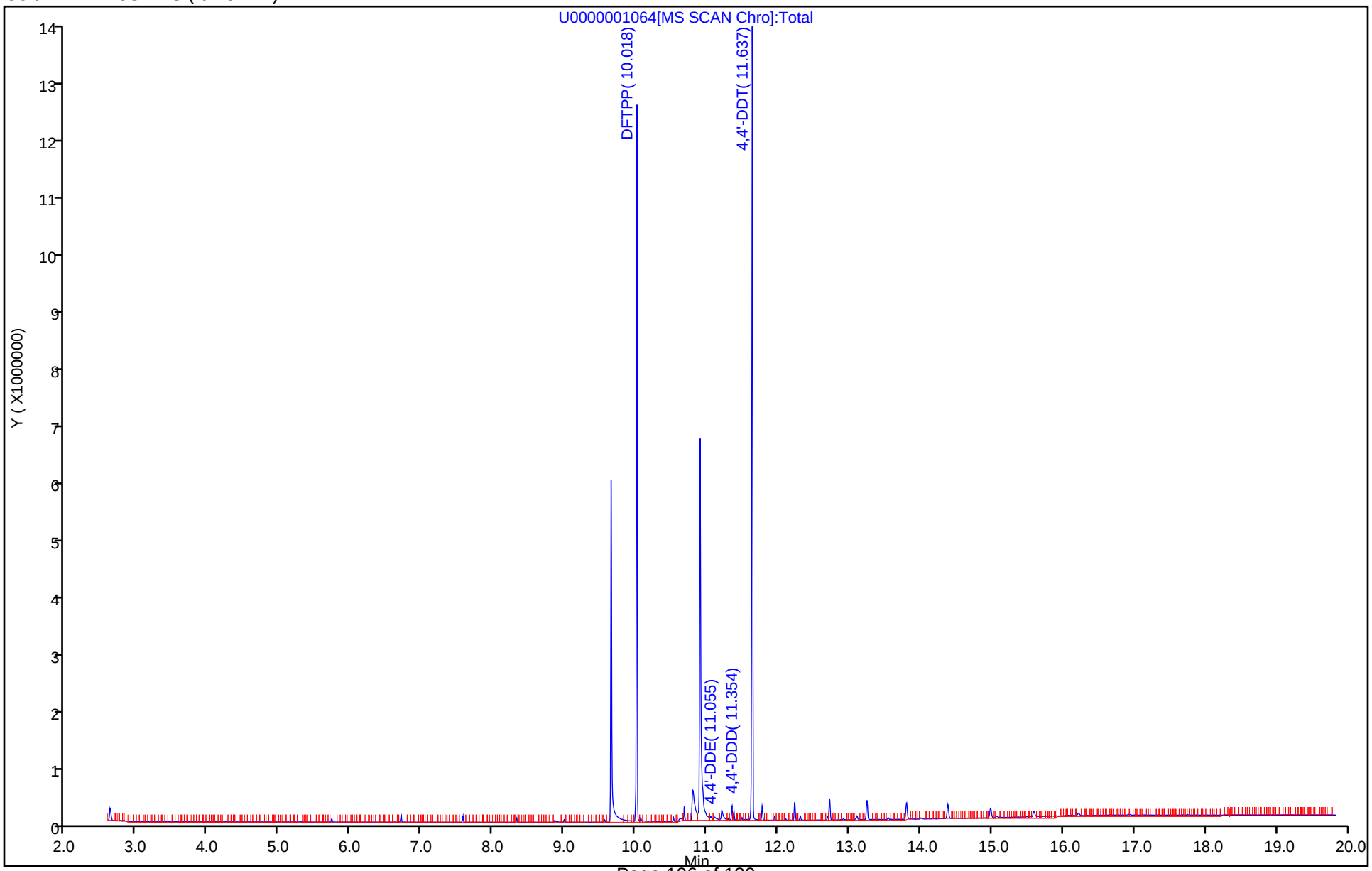
Report Date: 31-Mar-2023 15:47:40 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230330-110796.b\U0000001064.d

Injection Date:	30-Mar-2023 12:26:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



Breakdown Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230330-110796.b\U0000001064.d
Injection Date: 30-Mar-2023 12:26:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 1,4_Dx_SIM_HP5973U Limit Group: MB - 8270D SIM ID ICAL

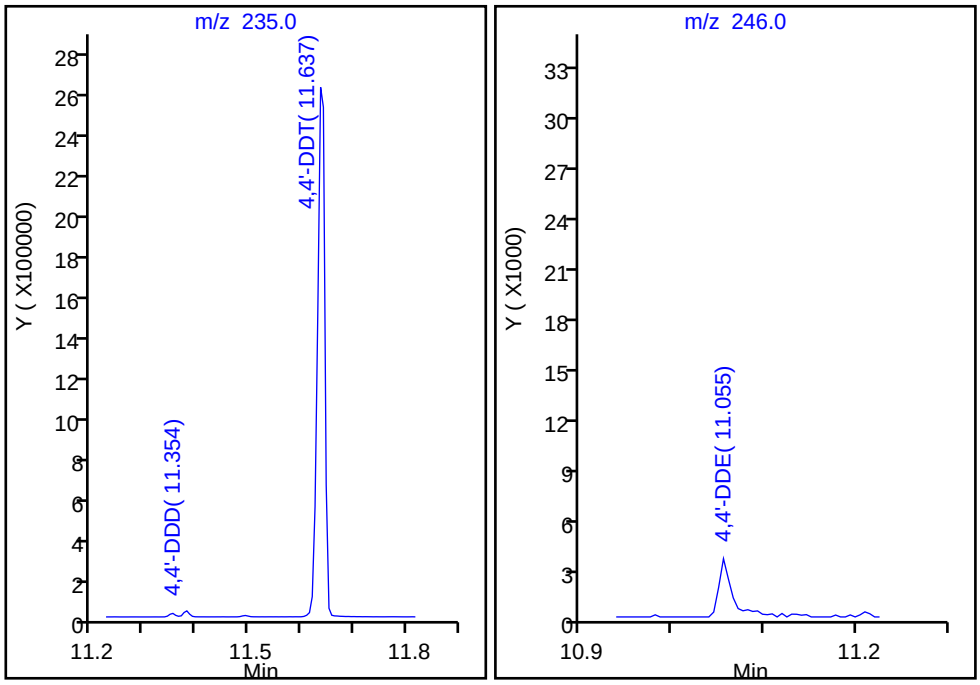
6 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

6 4,4'-DDT, Area = 2553622
5 4,4'-DDD, Area = 14069
7 4,4'-DDE, Area = 3647

%Breakdown: 0.69%, <= 20.00%
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207175-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-662596/1-A

Matrix: Water | Lab File ID: U0000001036.d

Analysis Method: 8270D SIM ID | Date Collected:

Extract. Method: 3510C | Date Extracted: 03/23/2023 14:57

Sample wt/vol: 250(mL) | Date Analyzed: 03/27/2023 12:27

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 662912 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	33		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001036.d
Lims ID: MB 480-662596/1-A
Client ID:
Sample Type: MB
Inject. Date: 27-Mar-2023 12:27:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 4
Operator ID: JM Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 28-Mar-2023 10:09:37 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1650

First Level Reviewer: O0RH Date: 28-Mar-2023 10:07:52

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.260	3.252	0.008	100	100731	5.00	1.65	
	3 1,4-Dioxane	88		3.297					ND	
*	2 1,4-Dichlorobenzene-d4	152	6.198	6.198	0.000	100	447415	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_LLIS_WRK_00250 Amount Added: 20.00 Units: uL Run Reagent

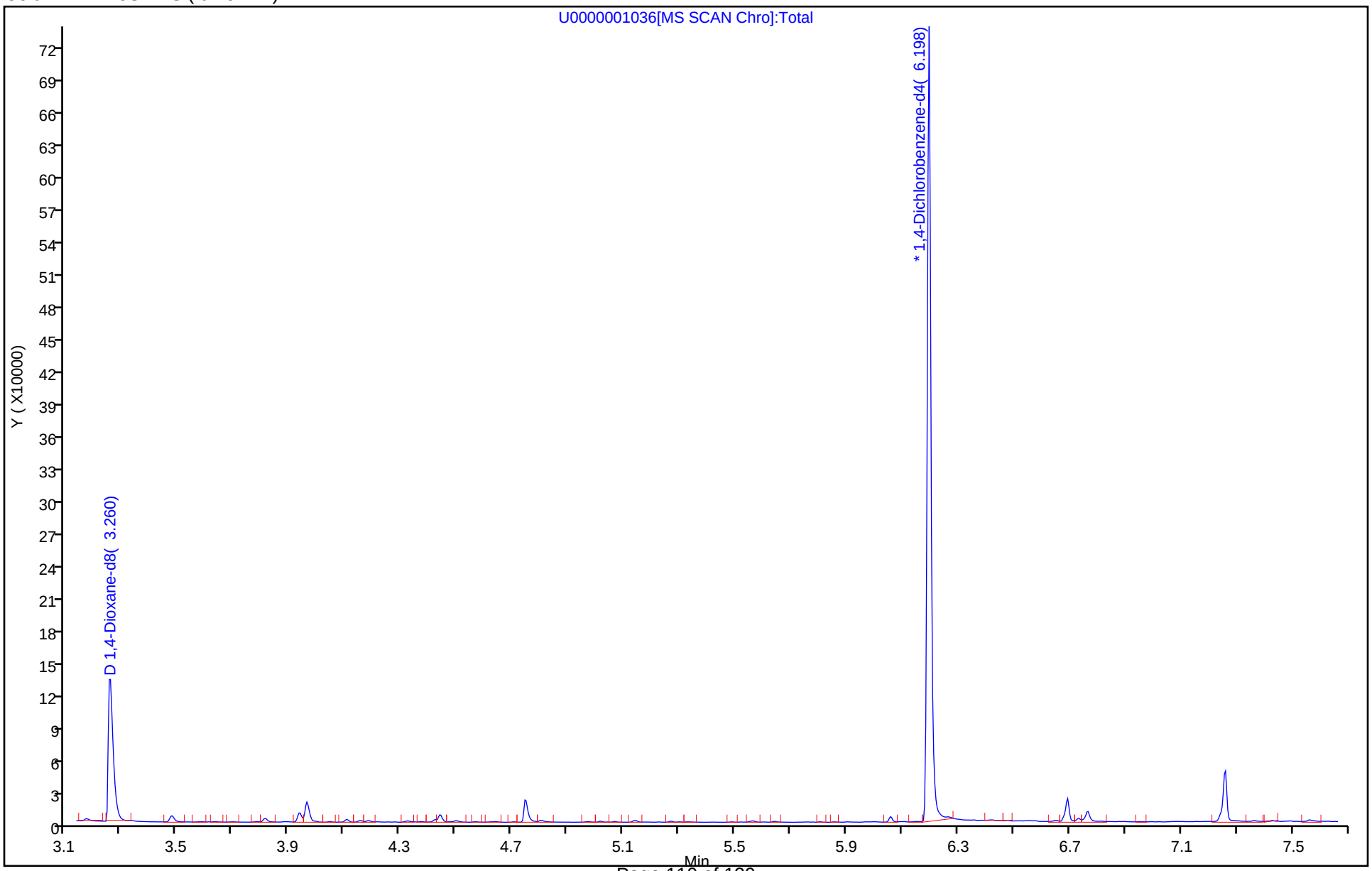
Report Date: 28-Mar-2023 10:09:38 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001036.d

Injection Date:	27-Mar-2023 12:27:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	MB 480-662596/1-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)

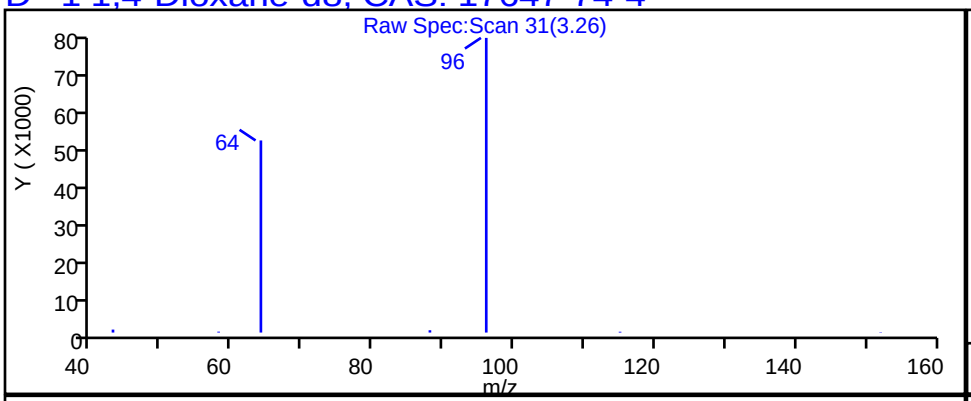


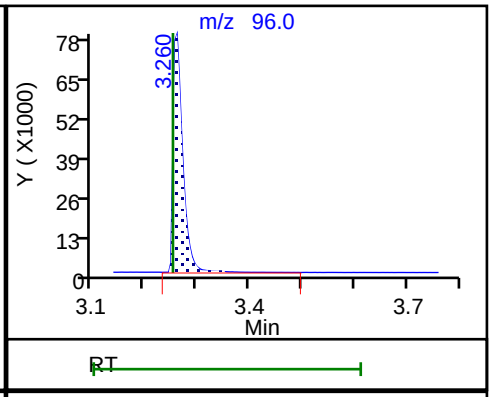
Report Date: 28-Mar-2023 10:09:38 Chrom Revision: 2.3 16-Mar-2023 15:40:40

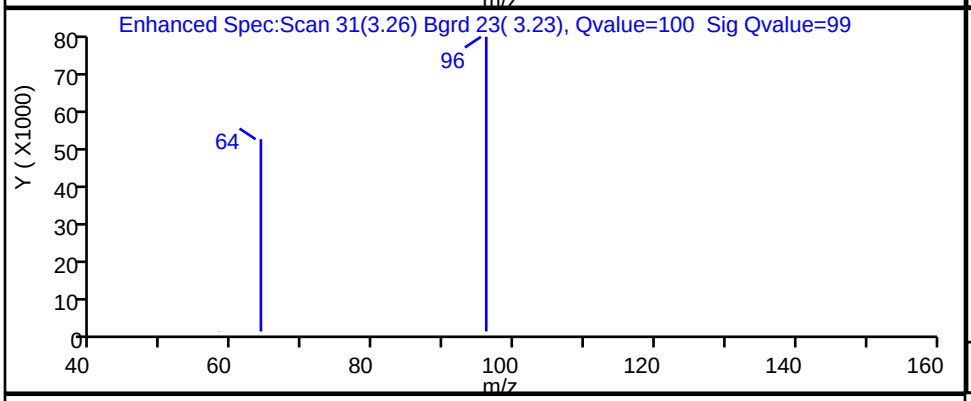
Eurofins Buffalo

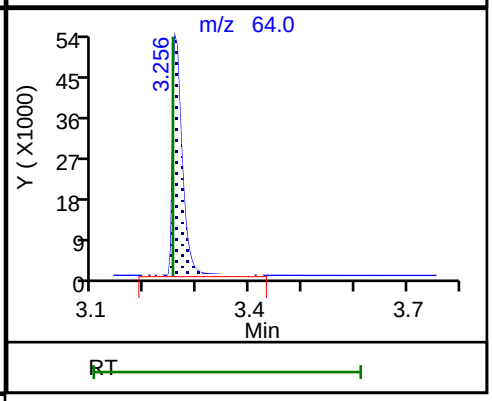
Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001036.d
Injection Date: 27-Mar-2023 12:27:30 Instrument ID: HP5973U
Lims ID: MB 480-662596/1-A
Client ID:
Operator ID: JM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 1,4_Dx_SIM_HP5973U Limit Group: MB - 8270D SIM ID ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

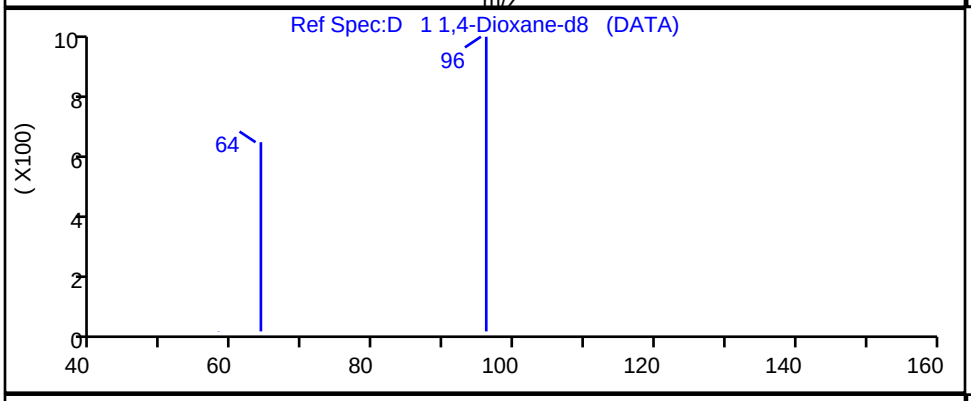
D 1 1,4-Dioxane-d8, CAS: 17647-74-4

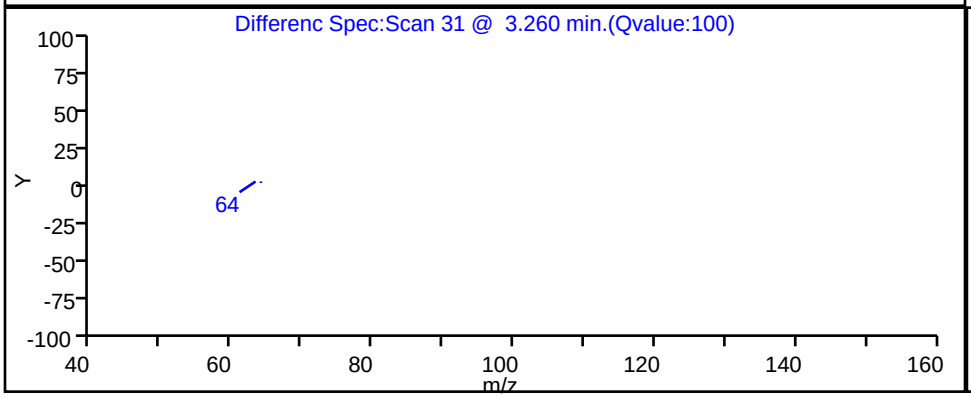


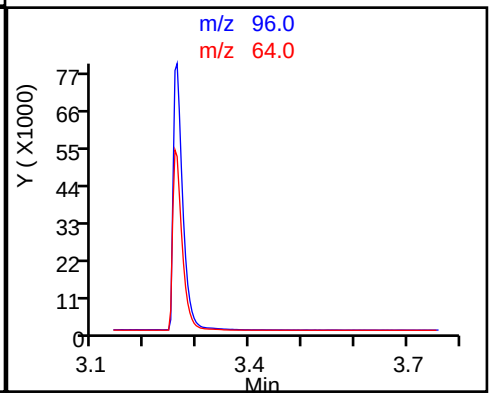












FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207175-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-662596/2-A

Matrix: Water | Lab File ID: U0000001037.d

Analysis Method: 8270D SIM ID | Date Collected:

Extract. Method: 3510C | Date Extracted: 03/23/2023 14:57

Sample wt/vol: 250(mL) | Date Analyzed: 03/27/2023 12:51

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 662912 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	2.08		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	35		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001037.d
Lims ID: LCS 480-662596/2-A
Client ID:
Sample Type: LCS
Inject. Date: 27-Mar-2023 12:51:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 5
Operator ID: JM Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 28-Mar-2023 10:09:37 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1650

First Level Reviewer: O0RH Date: 28-Mar-2023 10:07:53

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.260	3.252	0.008	99	105228	5.00	1.76	
	3 1,4-Dioxane	88	3.309	3.297	0.012	98	12405	0.5000	0.5206	
*	2 1,4-Dichlorobenzene-d4	152	6.197	6.198	-0.001	100	439477	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_LLIS_WRK_00250 Amount Added: 20.00 Units: uL Run Reagent

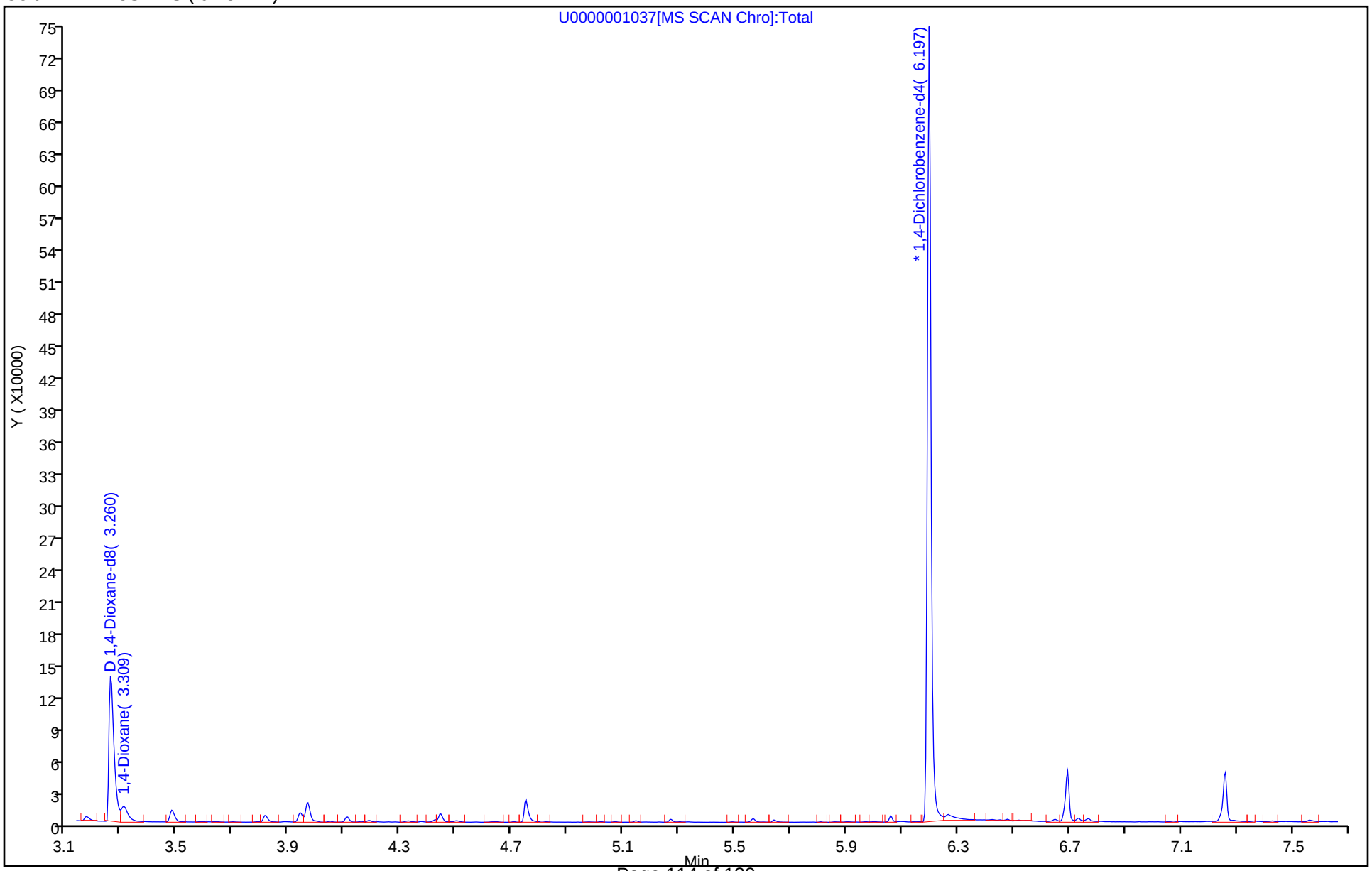
Report Date: 28-Mar-2023 10:09:39 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001037.d

Injection Date:	27-Mar-2023 12:51:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	LCS 480-662596/2-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207175-1

SDG No.:

Client Sample ID: RC-OW-B-MS MS | Lab Sample ID: 480-207175-2 MS

Matrix: Water | Lab File ID: U0000001038.d

Analysis Method: 8270D SIM ID | Date Collected: 03/22/2023 11:30

Extract. Method: 3510C | Date Extracted: 03/23/2023 14:57

Sample wt/vol: 250(mL) | Date Analyzed: 03/27/2023 13:14

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 662912 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	2.27		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	29		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001038.d
Lims ID: 480-207175-B-2-A MS
Client ID: RC-OW-B-MS
Sample Type: MS
Inject. Date: 27-Mar-2023 13:14:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 6
Operator ID: JM Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 28-Mar-2023 10:09:37 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1650

First Level Reviewer: O0RH Date: 28-Mar-2023 10:07:55

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.264	3.252	0.012	100	91885	5.00	1.46	
	3 1,4-Dioxane	88	3.313	3.297	0.016	98	11789	0.5000	0.5666	
*	2 1,4-Dichlorobenzene-d4	152	6.198	6.198	0.000	100	462442	4.00	4.00	
	7 4,4'-DDE	246		11.055					ND	
	5 4,4'-DDD	235		11.354					ND	
	6 4,4'-DDT	235		11.642					ND	

QC Flag Legend
Processing Flags

Reagents:
MB_LLIS_WRK_00250 Amount Added: 20.00 Units: uL Run Reagent

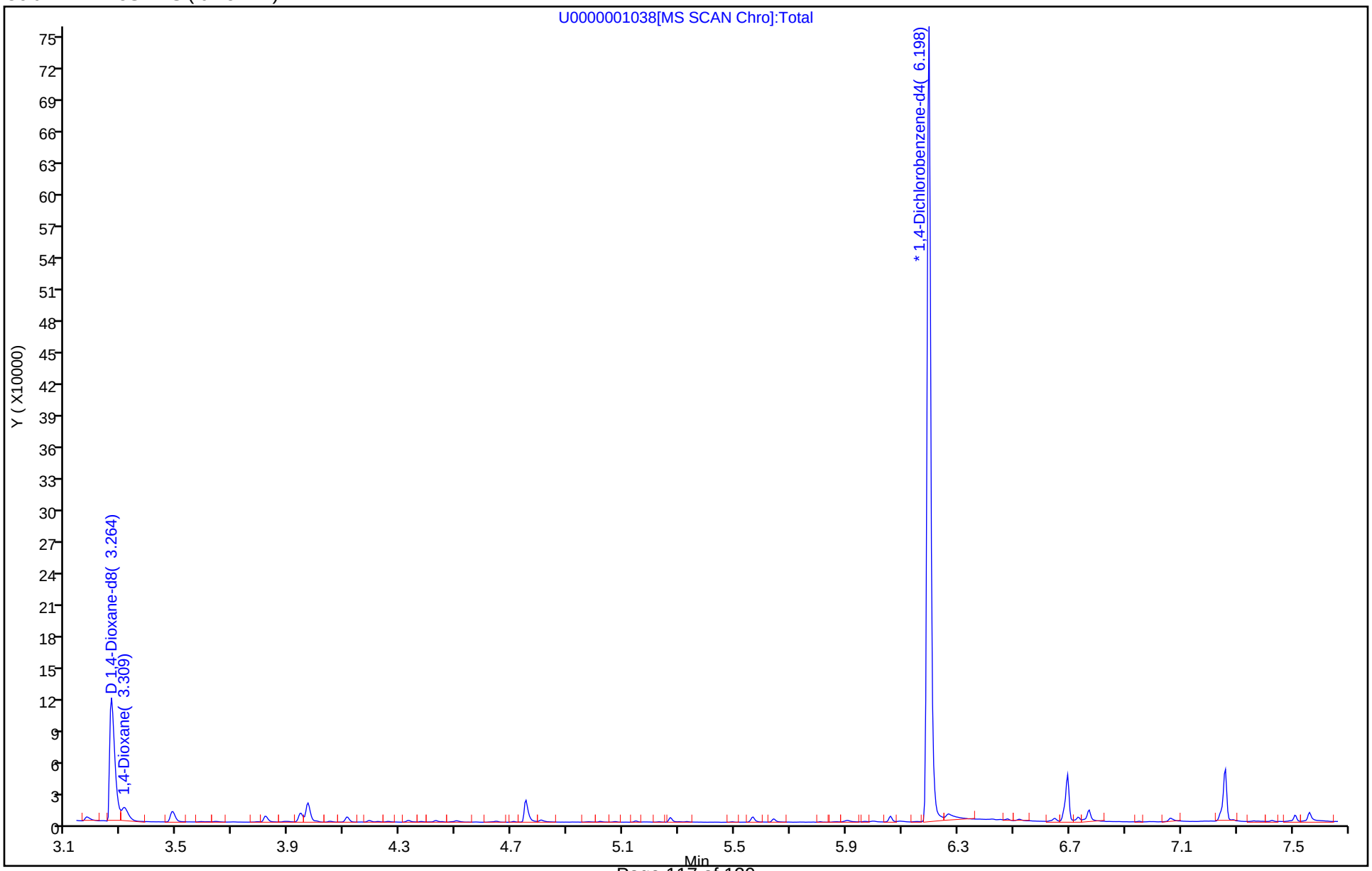
Report Date: 28-Mar-2023 10:09:39 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001038.d

Injection Date:	27-Mar-2023 13:14:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	480-207175-B-2-A MS			Worklist Smp#:	6
Client ID:	RC-OW-B-MS				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207175-1

SDG No.:

Client Sample ID: RC-OW-B-MSD MSD | Lab Sample ID: 480-207175-2 MSD

Matrix: Water | Lab File ID: U0000001039.d

Analysis Method: 8270D SIM ID | Date Collected: 03/22/2023 11:30

Extract. Method: 3510C | Date Extracted: 03/23/2023 14:57

Sample wt/vol: 250(mL) | Date Analyzed: 03/27/2023 13:38

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 662912 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	2.25		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	33		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001039.d
Lims ID: 480-207175-B-2-B MSD
Client ID: RC-OW-B-MSD
Sample Type: MSD
Inject. Date: 27-Mar-2023 13:38:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 7
Operator ID: JM Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 28-Mar-2023 10:09:37 Calib Date: 11-Jan-2023 12:35:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20230111-109710.b\U0000000437.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1650

First Level Reviewer: O0RH Date: 28-Mar-2023 10:07:57

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.264	3.252	0.012	100	97515	5.00	1.67	
	3 1,4-Dioxane	88	3.309	3.297	0.012	99	12399	0.5000	0.5615	
*	2 1,4-Dichlorobenzene-d4	152	6.198	6.198	0.000	100	428379	4.00	4.00	
	7 4,4'-DDE	246		11.055					ND	
	5 4,4'-DDD	235		11.354					ND	
	6 4,4'-DDT	235		11.642					ND	

QC Flag Legend
Processing Flags

Reagents:
MB_LLIS_WRK_00250 Amount Added: 20.00 Units: uL Run Reagent

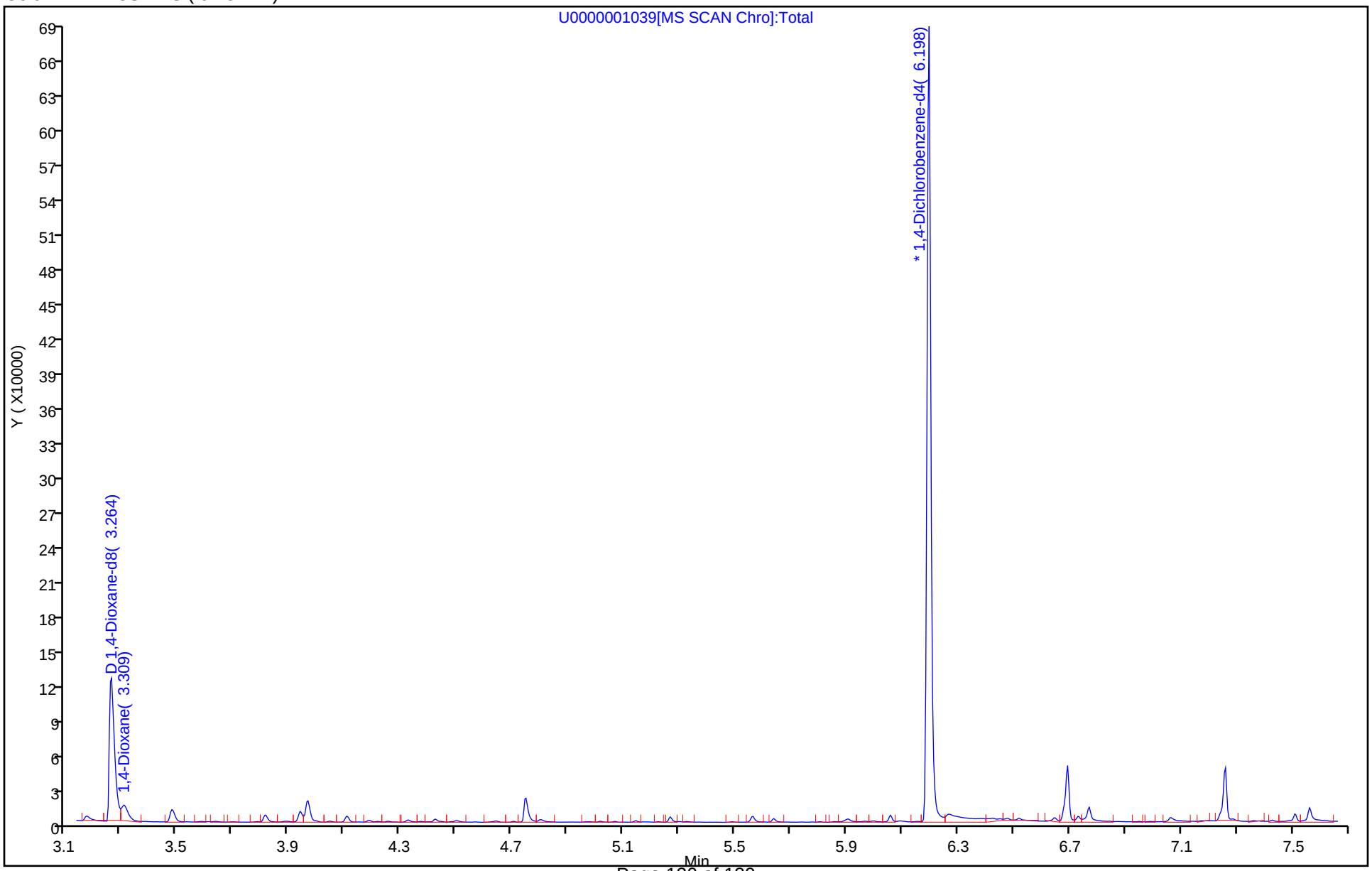
Report Date: 28-Mar-2023 10:09:40 Chrom Revision: 2.3 16-Mar-2023 15:40:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20230327-110742.b\U0000001039.d

Injection Date:	27-Mar-2023 13:38:30	Instrument ID:	HP5973U	Operator ID:	JM
Lims ID:	480-207175-B-2-B MSD			Worklist Smp#:	7
Client ID:	RC-OW-B-MSD				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Instrument ID: HP5973U Start Date: 01/11/2023 10:14

Analysis Batch Number: 655648 End Date: 01/11/2023 16:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-655648/2		01/11/2023 10:14	1	U0000000431.d	RXI-5Sil MS(0.5 0.25(mm)
IC 480-655648/3		01/11/2023 10:44	1	U0000000432.d	RXI-5Sil MS(0.5 0.25(mm)
IC 480-655648/4		01/11/2023 11:06	1	U0000000433.d	RXI-5Sil MS(0.5 0.25(mm)
IC 480-655648/5		01/11/2023 11:27	1	U0000000434.d	RXI-5Sil MS(0.5 0.25(mm)
ICIS 480-655648/6		01/11/2023 11:50	1	U0000000435.d	RXI-5Sil MS(0.5 0.25(mm)
IC 480-655648/7		01/11/2023 12:12	1	U0000000436.d	RXI-5Sil MS(0.5 0.25(mm)
IC 480-655648/8		01/11/2023 12:35	1	U0000000437.d	RXI-5Sil MS(0.5 0.25(mm)
ICV 480-655648/9		01/11/2023 12:58	1	U0000000438.d	RXI-5Sil MS(0.5 0.25(mm)
CCVIS 480-655648/10		01/11/2023 13:20	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		01/11/2023 13:43	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		01/11/2023 14:05	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		01/11/2023 14:27	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		01/11/2023 14:50	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		01/11/2023 15:12	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		01/11/2023 15:35	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		01/11/2023 15:58	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		01/11/2023 16:21	1		RXI-5Sil MS(0.5 0.25(mm)

8270D SIM ID

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Instrument ID: HP5973U Start Date: 03/27/2023 11:32

Analysis Batch Number: 662912 End Date: 03/27/2023 20:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-662912/2		03/27/2023 11:32	1	U0000001034.d	RXI-5Sil MS(0.5 0.25(mm)
CCVIS 480-662912/3		03/27/2023 12:04	1	U0000001035.d	RXI-5Sil MS(0.5 0.25(mm)
MB 480-662596/1-A		03/27/2023 12:27	1	U0000001036.d	RXI-5Sil MS(0.5 0.25(mm)
LCS 480-662596/2-A		03/27/2023 12:51	1	U0000001037.d	RXI-5Sil MS(0.5 0.25(mm)
480-207175-2 MS	RC-OW-B-MS MS	03/27/2023 13:14	1	U0000001038.d	RXI-5Sil MS(0.5 0.25(mm)
480-207175-2 MSD	RC-OW-B-MSD MSD	03/27/2023 13:38	1	U0000001039.d	RXI-5Sil MS(0.5 0.25(mm)
480-207175-2	RC-OW-B	03/27/2023 14:01	1	U0000001040.d	RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 14:25	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 14:48	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 15:11	1		RXI-5Sil MS(0.5 0.25(mm)
480-207175-1	RC-OW-A	03/27/2023 15:34	1	U0000001044.d	RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 15:57	1		RXI-5Sil MS(0.5 0.25(mm)
480-207175-4	RC-OW-D	03/27/2023 16:20	1	U0000001046.d	RXI-5Sil MS(0.5 0.25(mm)
480-207175-5	RC-OW-E	03/27/2023 16:43	1	U0000001047.d	RXI-5Sil MS(0.5 0.25(mm)
480-207175-6	RC-OW-DUPE	03/27/2023 17:06	1	U0000001048.d	RXI-5Sil MS(0.5 0.25(mm)
480-207175-7	RC-OW-FB	03/27/2023 17:29	1	U0000001049.d	RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 17:52	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 18:14	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 18:37	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 19:00	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 19:23	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 19:46	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 20:09	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 20:32	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 20:54	1		RXI-5Sil MS(0.5 0.25(mm)

8270D SIM ID

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Instrument ID: HP5973U Start Date: 03/30/2023 12:26

Analysis Batch Number: 663299 End Date: 03/30/2023 20:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-663299/2		03/30/2023 12:26	1	U0000001064.d	RXI-5Sil MS(0.5 0.25(mm)
CCVIS 480-663299/3		03/30/2023 12:58	1	U0000001065.d	RXI-5Sil MS(0.5 0.25(mm)
480-207175-3	RC-OW-C	03/30/2023 13:21	20	U0000001066.d	RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 13:43	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 14:06	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 14:29	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 14:51	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 15:14	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 15:37	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 16:00	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 16:24	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 16:47	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 17:11	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 17:34	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 17:56	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 18:19	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 18:41	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 19:04	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 19:27	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 19:50	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 20:13	1		RXI-5Sil MS(0.5 0.25(mm)

8270D SIM ID

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Batch Number: 655648 Batch Start Date: 01/11/23 10:14 Batch Analyst: Marshall, Joseph M

Batch Method: 8270D SIM ID Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	MB_1,4SIM_WRK 00143	MB_1,4SIM_WRK 00144	MB_1,4SIM_WRK 00145	MB_1,4SIM_WRK 00146	MB_1,4SIM_WRK 00147
DFTPP 480-655648/2		8270D SIM ID		1 mL					
IC 480-655648/3		8270D SIM ID		1 mL	1 mL				
IC 480-655648/4		8270D SIM ID		1 mL		1 mL			
IC 480-655648/5		8270D SIM ID		1 mL			1 mL		
ICIS 480-655648/6		8270D SIM ID		1 mL				1 mL	
IC 480-655648/7		8270D SIM ID		1 mL					1 mL
IC 480-655648/8		8270D SIM ID		1 mL					
ICV 480-655648/9		8270D SIM ID		1 mL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	MB_1,4SIM_WRK 00149	MB_DFTPP_WRK 00414	MB_LLIS_WRK 00247	MB_SIMSS_WRK 00022		
DFTPP 480-655648/2		8270D SIM ID			1 mL				
IC 480-655648/3		8270D SIM ID				20 uL			
IC 480-655648/4		8270D SIM ID				20 uL			
IC 480-655648/5		8270D SIM ID				20 uL			
ICIS 480-655648/6		8270D SIM ID				20 uL			
IC 480-655648/7		8270D SIM ID				20 uL			
IC 480-655648/8		8270D SIM ID		1 mL		20 uL			
ICV 480-655648/9		8270D SIM ID				20 uL	1 mL		

Batch Notes	

Basis	Basis Description

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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Batch Number: 662596 Batch Start Date: 03/23/23 14:57 Batch Analyst: Capelli, Lane S

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	OP_SIM_LCS 00021	OP_SimSurr 00048
MB 480-662596/1		3510C, 8270D SIM ID		250 mL	1 mL	7 SU	<2 SU		1 mL
LCS 480-662596/2		3510C, 8270D SIM ID		250 mL	1 mL	7 SU	<2 SU	1 mL	1 mL
480-207175-B-2 MS	RC-OW-B-MS	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU	1 mL	1 mL
480-207175-B-2 MSD	RC-OW-B-MSD	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU	1 mL	1 mL
480-207175-B-2	RC-OW-B	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU		1 mL
480-207175-A-1	RC-OW-A	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU		1 mL
480-207175-B-3	RC-OW-C	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU		1 mL
480-207175-B-4	RC-OW-D	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU		1 mL
480-207175-B-5	RC-OW-E	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU		1 mL
480-207175-B-6	RC-OW-DUPE	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU		1 mL
480-207175-B-7	RC-OW-FB	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU		1 mL

Batch Notes	
Method/Fraction	3510C_LVI/8270D_SIM_MS_ID
Analyst ID - Extraction	LC
Analyst ID - Spike Analyst	LC
Analyst ID - Spike Witness Analyst	LC
Sufficient Volume for Batch QC	Yes
Acid Used for pH Adjustment ID	7360965
Prep Solvent ID	7365582
Prep Solvent Volume Used	60 mL
Na2SO4 ID	7352175 (unbaked)
Analyst ID - Concentration	LC
Vial Lot Number	00259742

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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Batch Number: 662596 Batch Start Date: 03/23/23 14:57 Batch Analyst: Capelli, Lane S

Batch Method: 3510C Batch End Date:

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.

Shipping and Receiving Documents

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler: Patrick Suter	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-183292-38871.1
Client Contact: Ms. Laura Best	Phone: 585-559-9625	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Stantec Consulting Services Inc	PWSID:			Job #:

Address: 61 Commercial Street Suite100	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Rochester	TAT Requested (days): 10-DAY		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, 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, Y - Trizma, Z - other (specify)
State, Zip: NY, 14614	Compliance Project: Δ Yes Δ No		
Phone: 631-972-5998(Tel)	PO #: Purchase Order not required		Other:
Email: laura.best@stantec.com	WO #:		
Project Name: Wayne County, NY	Project #: 48026060		
Site: 1071 NY Rt. 31 Rando Corp. Site	SSOW#:		

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)	8270D_SIM_MS_ID - 1,4-Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
RC-OW-A	3/22/23	1612	G	Water	N	N	X		
RC-OW-B		1130		Water			X		
RC-OW-C		1010		Water			X		
RC-OW-D		1645		Water			X		
RC-OW-E		1506		Water			X		
RC-OW-DUPE		1520		Water		↓	X		
~~RC-OW-MS~~ RC-OW-B-MS		1130		Water		X	X		
~~RC-OW-MSD~~ RC-OW-B-MSD		1130		Water		X	X		
RC-OW-FB	↓	1025	↓	Water	↓	N	X		
				Water					
				Water					

480-207175 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Cat. B	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Christiana Deluca	3/22/23 1900	STN	FEDEX	3/22/23 1900	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				3/23/23 1000	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.7 # ice

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 480-207175-1

Login Number: 207175
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins Buffalo

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	STN
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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Laura Best
Stantec Consulting Services Inc
61 Commercial Street
Suite100
Rochester, New York 14614

Generated 4/3/2023 10:28:00 AM

JOB DESCRIPTION

Wayne County - Rando Corp. Site

JOB NUMBER

480-207175-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Buffalo and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Buffalo Project Manager or designee who has signed 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 Environment Testing Northeast, LLC Project Manager.

Authorization

Generated
4/3/2023 10:28:00 AM

Authorized for release by
John Beninati, Project Manager
John.Beninati@et.eurofinsus.com
(716)504-9874

Table of Contents

Definitions/Glossary

Client: Stantec Consulting Services Inc
Job ID: 480-207175-1
Project/Site: Wayne County - Rando Corp. Site

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
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)
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: 480-207175-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-207175-1

Comments
No additional comments.

Receipt
The samples were received on 3/23/2023 10:00 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 3.7º C.

GC/MS Semi VOA
Method 8270D SIM ID: The following sample was diluted to bring the concentration of target analytes within the calibration range: RC-OW-C (480-207175-3). Elevated reporting limits (RLs) are provided.

Method 8270D SIM ID: The following sample required a dilution due to the abundance of target analytes: RC-OW-C (480-207175-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

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

Detection Summary

Client: Stantec Consulting Services Inc
Job ID: 480-207175-1
Project/Site: Wayne County - Rando Corp. Site

Client Sample ID: RC-OW-A
Lab Sample ID: 480-207175-1

No Detections.

Client Sample ID: RC-OW-B
Lab Sample ID: 480-207175-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.25		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: RC-OW-C
Lab Sample ID: 480-207175-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	320		4.0	2.0	ug/L	20		8270D SIM ID	Total/NA

Client Sample ID: RC-OW-D
Lab Sample ID: 480-207175-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.3		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: RC-OW-E
Lab Sample ID: 480-207175-5

No Detections.

Client Sample ID: RC-OW-DUPE
Lab Sample ID: 480-207175-6

No Detections.

Client Sample ID: RC-OW-FB
Lab Sample ID: 480-207175-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.17	J	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RC-OW-A

Lab Sample ID: 480-207175-1
Matrix: Water
Date Collected: 03/22/23 16:12
Date Received: 03/23/23 10:00

Method: SW846 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		0.20	0.10	ug/L		03/23/23 14:57	03/27/23 15:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*28*		*15 - 110*	*03/23/23 14:57*	*03/27/23 15:34*	*1*

Client Sample ID: RC-OW-B

Lab Sample ID: 480-207175-2
Matrix: Water
Date Collected: 03/22/23 11:30
Date Received: 03/23/23 10:00

Method: SW846 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	**0.25**		0.20	0.10	ug/L		03/23/23 14:57	03/27/23 14:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*33*		*15 - 110*	*03/23/23 14:57*	*03/27/23 14:01*	*1*

Client Sample ID: RC-OW-C

Lab Sample ID: 480-207175-3
Matrix: Water
Date Collected: 03/22/23 10:10
Date Received: 03/23/23 10:00

Method: SW846 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	**320**		4.0	2.0	ug/L		03/23/23 14:57	03/30/23 13:21	20

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*39*		*15 - 110*	*03/23/23 14:57*	*03/30/23 13:21*	*20*

Client Sample ID: RC-OW-D

Lab Sample ID: 480-207175-4
Matrix: Water
Date Collected: 03/22/23 16:45
Date Received: 03/23/23 10:00

Method: SW846 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	**1.3**		0.20	0.10	ug/L		03/23/23 14:57	03/27/23 16:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*32*		*15 - 110*	*03/23/23 14:57*	*03/27/23 16:20*	*1*

Client Sample ID: RC-OW-E

Lab Sample ID: 480-207175-5
Matrix: Water
Date Collected: 03/22/23 15:06
Date Received: 03/23/23 10:00

Method: SW846 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		0.20	0.10	ug/L		03/23/23 14:57	03/27/23 16:43	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*32*		*15 - 110*	*03/23/23 14:57*	*03/27/23 16:43*	*1*

Client Sample ID: RC-OW-DUPE

Lab Sample ID: 480-207175-6
Matrix: Water
Date Collected: 03/22/23 15:20
Date Received: 03/23/23 10:00

Method: SW846 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		0.20	0.10	ug/L		03/23/23 14:57	03/27/23 17:06	1

Client Sample ID: RC-OW-DUPE
Lab Sample ID: 480-207175-6

Date Collected: 03/22/23 15:20
Matrix: Water
Date Received: 03/23/23 10:00

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*37*		*15 - 110*	*03/23/23 14:57*	*03/27/23 17:06*	*1*

Client Sample ID: RC-OW-FB
Lab Sample ID: 480-207175-7

Date Collected: 03/22/23 10:25
Matrix: Water
Date Received: 03/23/23 10:00

Method: SW846 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	0.17	J	0.20	0.10	ug/L		03/23/23 14:57	03/27/23 17:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*35*		*15 - 110*	*03/23/23 14:57*	*03/27/23 17:29*	*1*

Isotope Dilution Summary

Client: Stantec Consulting Services Inc
Job ID: 480-207175-1
Project/Site: Wayne County - Rando Corp. Site

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	DXE (15-110)						
480-207175-1	RC-OW-A	28						
480-207175-2	RC-OW-B	33						
480-207175-2 MS	RC-OW-B-MS	29						
480-207175-2 MSD	RC-OW-B-MSD	33						
480-207175-3	RC-OW-C	39						
480-207175-4	RC-OW-D	32						
480-207175-5	RC-OW-E	32						
480-207175-6	RC-OW-DUPE	37						
480-207175-7	RC-OW-FB	35						
LCS 480-662596/2-A	Lab Control Sample	35						
MB 480-662596/1-A	Method Blank	33						

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-662596/1-A
Matrix: Water
Analysis Batch: 662912

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 662596

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		03/23/23 14:57	03/27/23 12:27	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*33*		*15 - 110*	*03/23/23 14:57*	*03/27/23 12:27*	*1*

Lab Sample ID: LCS 480-662596/2-A
Matrix: Water
Analysis Batch: 662912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 662596

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			2.00	2.08		ug/L		104	40 - 140		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*35*		*15 - 110*

Lab Sample ID: 480-207175-2 MS
Matrix: Water
Analysis Batch: 662912

Client Sample ID: RC-OW-B-MS
Prep Type: Total/NA
Prep Batch: 662596

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane	0.25		2.00	2.27		ug/L		101	40 - 140		

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
1,4-Dioxane-d8	*29*		*15 - 110*

Lab Sample ID: 480-207175-2 MSD
Matrix: Water
Analysis Batch: 662912

Client Sample ID: RC-OW-B-MSD
Prep Type: Total/NA
Prep Batch: 662596

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	0.25		2.00	2.25		ug/L		100	40 - 140	1	20

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,4-Dioxane-d8	*33*		*15 - 110*

QC Association Summary

Client: Stantec Consulting Services Inc
Job ID: 480-207175-1
Project/Site: Wayne County - Rando Corp. Site

GC/MS Semi VOA

Prep Batch: 662596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207175-1	RC-OW-A	Total/NA	Water	3510C	
480-207175-2	RC-OW-B	Total/NA	Water	3510C	
480-207175-3	RC-OW-C	Total/NA	Water	3510C	
480-207175-4	RC-OW-D	Total/NA	Water	3510C	
480-207175-5	RC-OW-E	Total/NA	Water	3510C	
480-207175-6	RC-OW-DUPE	Total/NA	Water	3510C	
480-207175-7	RC-OW-FB	Total/NA	Water	3510C	
MB 480-662596/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-662596/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-207175-2 MS	RC-OW-B-MS	Total/NA	Water	3510C	
480-207175-2 MSD	RC-OW-B-MSD	Total/NA	Water	3510C	

Analysis Batch: 662912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207175-1	RC-OW-A	Total/NA	Water	8270D SIM ID	662596
480-207175-2	RC-OW-B	Total/NA	Water	8270D SIM ID	662596
480-207175-4	RC-OW-D	Total/NA	Water	8270D SIM ID	662596
480-207175-5	RC-OW-E	Total/NA	Water	8270D SIM ID	662596
480-207175-6	RC-OW-DUPE	Total/NA	Water	8270D SIM ID	662596
480-207175-7	RC-OW-FB	Total/NA	Water	8270D SIM ID	662596
MB 480-662596/1-A	Method Blank	Total/NA	Water	8270D SIM ID	662596
LCS 480-662596/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	662596
480-207175-2 MS	RC-OW-B-MS	Total/NA	Water	8270D SIM ID	662596
480-207175-2 MSD	RC-OW-B-MSD	Total/NA	Water	8270D SIM ID	662596

Analysis Batch: 663299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207175-3	RC-OW-C	Total/NA	Water	8270D SIM ID	662596

Lab Chronicle

Client: Stantec Consulting Services Inc
Job ID: 480-207175-1
Project/Site: Wayne County - Rando Corp. Site

Client Sample ID: RC-OW-A
Lab Sample ID: 480-207175-1
Date Collected: 03/22/23 16:12
Matrix: Water
Date Received: 03/23/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			662596	LSC	EET BUF	03/23/23 14:57
Total/NA	Analysis	8270D SIM ID		1	662912	RJS	EET BUF	03/27/23 15:34

Client Sample ID: RC-OW-B
Lab Sample ID: 480-207175-2
Date Collected: 03/22/23 11:30
Matrix: Water
Date Received: 03/23/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			662596	LSC	EET BUF	03/23/23 14:57
Total/NA	Analysis	8270D SIM ID		1	662912	RJS	EET BUF	03/27/23 14:01

Client Sample ID: RC-OW-C
Lab Sample ID: 480-207175-3
Date Collected: 03/22/23 10:10
Matrix: Water
Date Received: 03/23/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			662596	LSC	EET BUF	03/23/23 14:57
Total/NA	Analysis	8270D SIM ID		20	663299	JMM	EET BUF	03/30/23 13:21

Client Sample ID: RC-OW-D
Lab Sample ID: 480-207175-4
Date Collected: 03/22/23 16:45
Matrix: Water
Date Received: 03/23/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			662596	LSC	EET BUF	03/23/23 14:57
Total/NA	Analysis	8270D SIM ID		1	662912	RJS	EET BUF	03/27/23 16:20

Client Sample ID: RC-OW-E
Lab Sample ID: 480-207175-5
Date Collected: 03/22/23 15:06
Matrix: Water
Date Received: 03/23/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			662596	LSC	EET BUF	03/23/23 14:57
Total/NA	Analysis	8270D SIM ID		1	662912	RJS	EET BUF	03/27/23 16:43

Client Sample ID: RC-OW-DUPE
Lab Sample ID: 480-207175-6
Date Collected: 03/22/23 15:20
Matrix: Water
Date Received: 03/23/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			662596	LSC	EET BUF	03/23/23 14:57
Total/NA	Analysis	8270D SIM ID		1	662912	RJS	EET BUF	03/27/23 17:06

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Wayne County - Rando Corp. Site

Job ID: 480-207175-1

Client Sample ID: RC-OW-FB

Date Collected: 03/22/23 10:25
Date Received: 03/23/23 10:00

Lab Sample ID: 480-207175-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			662596	LSC	EET BUF	03/23/23 14:57
Total/NA	Analysis	8270D SIM ID		1	662912	RJS	EET BUF	03/27/23 17:29

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 480-207175-1
Project/Site: Wayne County - Rando Corp. Site

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Wayne County - Rando Corp. Site

Job ID: 480-207175-1

Method	Method Description	Protocol	Laboratory
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Wayne County - Rando Corp. Site

Job ID: 480-207175-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-207175-1	RC-OW-A	Water	03/22/23 16:12	03/23/23 10:00
480-207175-2	RC-OW-B	Water	03/22/23 11:30	03/23/23 10:00
480-207175-3	RC-OW-C	Water	03/22/23 10:10	03/23/23 10:00
480-207175-4	RC-OW-D	Water	03/22/23 16:45	03/23/23 10:00
480-207175-5	RC-OW-E	Water	03/22/23 15:06	03/23/23 10:00
480-207175-6	RC-OW-DUPE	Water	03/22/23 15:20	03/23/23 10:00
480-207175-7	RC-OW-FB	Water	03/22/23 10:25	03/23/23 10:00

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler: Patrick Suter	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-183292-38871.1
Client Contact: Ms. Laura Best	Phone: 585-559-9625	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Stantec Consulting Services Inc	PWSID:			Job #:
Address: 61 Commercial Street Suite100	Due Date Requested:			
City: Rochester	TAT Requested (days): 10-DAY			
State, Zip: NY, 14614	Compliance Project: Δ Yes Δ No			
Phone: 631-972-5998(Tel)	PO #: Purchase Order not required			
Email: laura.best@stantec.com	WO #:			
Project Name: Wayne County, NY	Project #: 48026060			
Site: 1071 NY Rt. 31 Rando Corp. Site	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, 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, Y - Trizma, Z - other (specify)
Other:

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)	8270D_SIM_MS_ID - 1,4-Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
RC-OW-A	3/22/23	1612	C	Water	N	N	X		
RC-OW-B		1130		Water			X		
RC-OW-C		1010		Water			X		
RC-OW-D		1645		Water			X		
RC-OW-E		1506		Water			X		
RC-OW-DUPE		1520		Water		↓	X		
~~RC-OW-MS~~ RC-OW-B-MS		1130		Water		X	X		
~~RC-OW-MSD~~ RC-OW-B-MSD		1130		Water		X	X		
RC-OW-FB	↓	1025	↓	Water	↓	N	X		
				Water					
				Water					

480-207175 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Cat. B	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Christiana Delucca	Date/Time: 3/22/23 1900	Company: STN	Received by: FEDEX
Relinquished by:	Date/Time:	Company	Received by:
Relinquished by:	Date/Time:	Company	Received by:

Received by:	Date/Time:	Company
FEDEX	3/22/23 1900	
	3/23/23 1000	TJ

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.7 # ice

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 480-207175-1

Login Number: 207175
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins Buffalo

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	STN
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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Laura Best
Stantec Consulting Services Inc
61 Commercial Street
Suite100
Rochester NY 14614

Generated 4/3/2023 10:29 AM

JOB DESCRIPTION

Wayne County - Rando Corp. Site

JOB NUMBER

480-207175-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

Eurofins Buffalo

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Buffalo and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Buffalo Project Manager or designee who has signed 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 Environment Testing Northeast, LLC Project Manager.

Authorization

Generated
4/3/2023 10:29 AM

Authorized for release by
John Beninati, Project Manager
John.Beninati@et.eurofinsus.com
716 504-9874

Table of Contents

Table of Contents

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
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)
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
480-207175-1

Comments
No additional comments.

Receipt
The samples were received on 3/23/2023 10:00 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 3.7º C.

GC/MS Semi VOA
Method 8270D SIM ID: The following sample was diluted to bring the concentration of target analytes within the calibration range: RC-OW-C (480-207175-3). Elevated reporting limits (RLs) are provided.

Method 8270D SIM ID: The following sample required a dilution due to the abundance of target analytes: RC-OW-C (480-207175-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

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

Detection Summary

Client: Stantec Consulting Services Inc
Job ID: 480-207175-1
Project/Site: Wayne County - Rando Corp. Site

Client Sample ID: RC-OW-A
Lab Sample ID: 480-207175-1

No Detections.

Client Sample ID: RC-OW-B
Lab Sample ID: 480-207175-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.25		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: RC-OW-C
Lab Sample ID: 480-207175-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	320		4.0	2.0	ug/L	20		8270D SIM ID	Total/NA

Client Sample ID: RC-OW-D
Lab Sample ID: 480-207175-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.3		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: RC-OW-E
Lab Sample ID: 480-207175-5

No Detections.

Client Sample ID: RC-OW-DUPE
Lab Sample ID: 480-207175-6

No Detections.

Client Sample ID: RC-OW-FB
Lab Sample ID: 480-207175-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.17	J	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RC-OW-A
Lab Sample ID: 480-207175-1
Date Collected: 03/22/23 16:12
Matrix: Water
Date Received: 03/23/23 10:00

Method: SW846 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		0.20	0.10	ug/L		03/23/23 14:57	03/27/23 15:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*28*		*15 - 110*	*03/23/23 14:57*	*03/27/23 15:34*	*1*

Client Sample ID: RC-OW-B
Lab Sample ID: 480-207175-2
Date Collected: 03/22/23 11:30
Matrix: Water
Date Received: 03/23/23 10:00

Method: SW846 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	**0.25**		0.20	0.10	ug/L		03/23/23 14:57	03/27/23 14:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*33*		*15 - 110*	*03/23/23 14:57*	*03/27/23 14:01*	*1*

Client Sample ID: RC-OW-C
Lab Sample ID: 480-207175-3
Date Collected: 03/22/23 10:10
Matrix: Water
Date Received: 03/23/23 10:00

Method: SW846 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	**320**		4.0	2.0	ug/L		03/23/23 14:57	03/30/23 13:21	20

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*39*		*15 - 110*	*03/23/23 14:57*	*03/30/23 13:21*	*20*

Client Sample ID: RC-OW-D
Lab Sample ID: 480-207175-4
Date Collected: 03/22/23 16:45
Matrix: Water
Date Received: 03/23/23 10:00

Method: SW846 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	**1.3**		0.20	0.10	ug/L		03/23/23 14:57	03/27/23 16:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*32*		*15 - 110*	*03/23/23 14:57*	*03/27/23 16:20*	*1*

Client Sample ID: RC-OW-E
Lab Sample ID: 480-207175-5
Date Collected: 03/22/23 15:06
Matrix: Water
Date Received: 03/23/23 10:00

Method: SW846 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		0.20	0.10	ug/L		03/23/23 14:57	03/27/23 16:43	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*32*		*15 - 110*	*03/23/23 14:57*	*03/27/23 16:43*	*1*

Client Sample ID: RC-OW-DUPE
Lab Sample ID: 480-207175-6
Date Collected: 03/22/23 15:20
Matrix: Water
Date Received: 03/23/23 10:00

Method: SW846 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		0.20	0.10	ug/L		03/23/23 14:57	03/27/23 17:06	1

Client Sample ID: RC-OW-DUPE
Lab Sample ID: 480-207175-6

Date Collected: 03/22/23 15:20
Matrix: Water
Date Received: 03/23/23 10:00

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*37*		*15 - 110*	*03/23/23 14:57*	*03/27/23 17:06*	*1*

Client Sample ID: RC-OW-FB
Lab Sample ID: 480-207175-7

Date Collected: 03/22/23 10:25
Matrix: Water
Date Received: 03/23/23 10:00

Method: SW846 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	**0.17**	**J**	0.20	0.10	ug/L		03/23/23 14:57	03/27/23 17:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*35*		*15 - 110*	*03/23/23 14:57*	*03/27/23 17:29*	*1*

Default Detection Limits

Client: Stantec Consulting Services Inc
Job ID: 480-207175-1
Project/Site: Wayne County - Rando Corp. Site

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Prep: 3510C

Analyte	RL	MDL	Units
1,4-Dioxane	0.20	0.10	ug/L

Isotope Dilution Summary

Client: Stantec Consulting Services Inc
Job ID: 480-207175-1
Project/Site: Wayne County - Rando Corp. Site

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DXE (15-110)							
480-207175-1	RC-OW-A	28							
480-207175-2	RC-OW-B	33							
480-207175-2 MS	RC-OW-B-MS	29							
480-207175-2 MSD	RC-OW-B-MSD	33							
480-207175-3	RC-OW-C	39							
480-207175-4	RC-OW-D	32							
480-207175-5	RC-OW-E	32							
480-207175-6	RC-OW-DUPE	37							
480-207175-7	RC-OW-FB	35							
LCS 480-662596/2-A	Lab Control Sample	35							
MB 480-662596/1-A	Method Blank	33							

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-662596/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 662912
Prep Batch: 662596

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		03/23/23 14:57	03/27/23 12:27	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*33*		*15 - 110*	*03/23/23 14:57*	*03/27/23 12:27*	*1*

Lab Sample ID: LCS 480-662596/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 662912
Prep Batch: 662596

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			2.00	2.08		ug/L		104	40 - 140		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*35*		*15 - 110*

Lab Sample ID: 480-207175-2 MS
Client Sample ID: RC-OW-B-MS
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 662912
Prep Batch: 662596

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane	0.25		2.00	2.27		ug/L		101	40 - 140		

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
1,4-Dioxane-d8	*29*		*15 - 110*

Lab Sample ID: 480-207175-2 MSD
Client Sample ID: RC-OW-B-MSD
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 662912
Prep Batch: 662596

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	0.25		2.00	2.25		ug/L		100	40 - 140	1	20

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,4-Dioxane-d8	*33*		*15 - 110*

GC/MS Semi VOA

Prep Batch: 662596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207175-1	RC-OW-A	Total/NA	Water	3510C	
480-207175-2	RC-OW-B	Total/NA	Water	3510C	
480-207175-3	RC-OW-C	Total/NA	Water	3510C	
480-207175-4	RC-OW-D	Total/NA	Water	3510C	
480-207175-5	RC-OW-E	Total/NA	Water	3510C	
480-207175-6	RC-OW-DUPE	Total/NA	Water	3510C	
480-207175-7	RC-OW-FB	Total/NA	Water	3510C	
MB 480-662596/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-662596/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-207175-2 MS	RC-OW-B-MS	Total/NA	Water	3510C	
480-207175-2 MSD	RC-OW-B-MSD	Total/NA	Water	3510C	

Analysis Batch: 662912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207175-1	RC-OW-A	Total/NA	Water	8270D SIM ID	662596
480-207175-2	RC-OW-B	Total/NA	Water	8270D SIM ID	662596
480-207175-4	RC-OW-D	Total/NA	Water	8270D SIM ID	662596
480-207175-5	RC-OW-E	Total/NA	Water	8270D SIM ID	662596
480-207175-6	RC-OW-DUPE	Total/NA	Water	8270D SIM ID	662596
480-207175-7	RC-OW-FB	Total/NA	Water	8270D SIM ID	662596
MB 480-662596/1-A	Method Blank	Total/NA	Water	8270D SIM ID	662596
LCS 480-662596/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	662596
480-207175-2 MS	RC-OW-B-MS	Total/NA	Water	8270D SIM ID	662596
480-207175-2 MSD	RC-OW-B-MSD	Total/NA	Water	8270D SIM ID	662596

Analysis Batch: 663299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207175-3	RC-OW-C	Total/NA	Water	8270D SIM ID	662596

Lab Chronicle

Client: Stantec Consulting Services Inc
Job ID: 480-207175-1
Project/Site: Wayne County - Rando Corp. Site

Client Sample ID: RC-OW-A
Lab Sample ID: 480-207175-1
Date Collected: 03/22/23 16:12
Matrix: Water
Date Received: 03/23/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			662596	LSC	EET BUF	03/23/23 14:57
Total/NA	Analysis	8270D SIM ID		1	662912	RJS	EET BUF	03/27/23 15:34

Client Sample ID: RC-OW-B
Lab Sample ID: 480-207175-2
Date Collected: 03/22/23 11:30
Matrix: Water
Date Received: 03/23/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			662596	LSC	EET BUF	03/23/23 14:57
Total/NA	Analysis	8270D SIM ID		1	662912	RJS	EET BUF	03/27/23 14:01

Client Sample ID: RC-OW-C
Lab Sample ID: 480-207175-3
Date Collected: 03/22/23 10:10
Matrix: Water
Date Received: 03/23/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			662596	LSC	EET BUF	03/23/23 14:57
Total/NA	Analysis	8270D SIM ID		20	663299	JMM	EET BUF	03/30/23 13:21

Client Sample ID: RC-OW-D
Lab Sample ID: 480-207175-4
Date Collected: 03/22/23 16:45
Matrix: Water
Date Received: 03/23/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			662596	LSC	EET BUF	03/23/23 14:57
Total/NA	Analysis	8270D SIM ID		1	662912	RJS	EET BUF	03/27/23 16:20

Client Sample ID: RC-OW-E
Lab Sample ID: 480-207175-5
Date Collected: 03/22/23 15:06
Matrix: Water
Date Received: 03/23/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			662596	LSC	EET BUF	03/23/23 14:57
Total/NA	Analysis	8270D SIM ID		1	662912	RJS	EET BUF	03/27/23 16:43

Client Sample ID: RC-OW-DUPE
Lab Sample ID: 480-207175-6
Date Collected: 03/22/23 15:20
Matrix: Water
Date Received: 03/23/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			662596	LSC	EET BUF	03/23/23 14:57
Total/NA	Analysis	8270D SIM ID		1	662912	RJS	EET BUF	03/27/23 17:06

Lab Chronicle

Client: Stantec Consulting Services Inc
Job ID: 480-207175-1
Project/Site: Wayne County - Rando Corp. Site

Client Sample ID: RC-OW-FB
Lab Sample ID: 480-207175-7

Date Collected: 03/22/23 10:25
Matrix: Water
Date Received: 03/23/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			662596	LSC	EET BUF	03/23/23 14:57
Total/NA	Analysis	8270D SIM ID		1	662912	RJS	EET BUF	03/27/23 17:29

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 480-207175-1
Project/Site: Wayne County - Rando Corp. Site

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

Method Summary

Client: Stantec Consulting Services Inc
Job ID: 480-207175-1
Project/Site: Wayne County - Rando Corp. Site

Method	Method Description	Protocol	Laboratory
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Stantec Consulting Services Inc
Job ID: 480-207175-1
Project/Site: Wayne County - Rando Corp. Site

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-207175-1	RC-OW-A	Water	03/22/23 16:12	03/23/23 10:00
480-207175-2	RC-OW-B	Water	03/22/23 11:30	03/23/23 10:00
480-207175-3	RC-OW-C	Water	03/22/23 10:10	03/23/23 10:00
480-207175-4	RC-OW-D	Water	03/22/23 16:45	03/23/23 10:00
480-207175-5	RC-OW-E	Water	03/22/23 15:06	03/23/23 10:00
480-207175-6	RC-OW-DUPE	Water	03/22/23 15:20	03/23/23 10:00
480-207175-7	RC-OW-FB	Water	03/22/23 10:25	03/23/23 10:00

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MB_1,4SIM_WRK_00143	04/13/23	11/10/22	Methylene Chloride, Lot 22I1362009	1 mL	MB_1,4SIM_INT_00020	10 uL	1,4-Dioxane	0.05 ug/mL
					MB_SIMSUR_INT_00008	10 uL	1,4-Dioxane-d8	0.5 ug/mL
.MB_1,4SIM_INT_00020	04/13/23	10/13/22	Methylene Chloride, Lot 22B2362003	10 mL	MB_14Diox_STK_00031	25 uL	1,4-Dioxane	5 ug/mL
..MB_14Diox_STK_00031	04/26/23		Restek, Lot A0152693		(Purchased Reagent)		1,4-Dioxane	2000 ug/mL
.MB_SIMSUR_INT_00008	06/06/23	06/06/22	Methylene Chloride, Lot 22D0362005	10 mL	MB_SIMSur_STK_00021	250 uL	1,4-Dioxane-d8	50 ug/mL
..MB_SIMSur_STK_00021	06/06/23		Restek, Lot A0171003		(Purchased Reagent)		1,4-Dioxane-d8	2000 ug/mL
MB_1,4SIM_WRK_00144	04/13/23	11/10/22	Methylene Chloride, Lot 22I1362009	1 mL	MB_1,4SIM_INT_00020	40 uL	1,4-Dioxane	0.2 ug/mL
					MB_SIMSUR_INT_00008	40 uL	1,4-Dioxane-d8	2 ug/mL
.MB_1,4SIM_INT_00020	04/13/23	10/13/22	Methylene Chloride, Lot 22B2362003	10 mL	MB_14Diox_STK_00031	25 uL	1,4-Dioxane	5 ug/mL
..MB_14Diox_STK_00031	04/26/23		Restek, Lot A0152693		(Purchased Reagent)		1,4-Dioxane	2000 ug/mL
.MB_SIMSUR_INT_00008	06/06/23	06/06/22	Methylene Chloride, Lot 22D0362005	10 mL	MB_SIMSur_STK_00021	250 uL	1,4-Dioxane-d8	50 ug/mL
..MB_SIMSur_STK_00021	06/06/23		Restek, Lot A0171003		(Purchased Reagent)		1,4-Dioxane-d8	2000 ug/mL
MB_1,4SIM_WRK_00145	04/13/23	11/10/22	Methylene Chloride, Lot 22I1362009	1 mL	MB_1,4SIM_INT_00020	80 uL	1,4-Dioxane	0.4 ug/mL
					MB_SIMSUR_INT_00008	80 uL	1,4-Dioxane-d8	4 ug/mL
.MB_1,4SIM_INT_00020	04/13/23	10/13/22	Methylene Chloride, Lot 22B2362003	10 mL	MB_14Diox_STK_00031	25 uL	1,4-Dioxane	5 ug/mL
..MB_14Diox_STK_00031	04/26/23		Restek, Lot A0152693		(Purchased Reagent)		1,4-Dioxane	2000 ug/mL
.MB_SIMSUR_INT_00008	06/06/23	06/06/22	Methylene Chloride, Lot 22D0362005	10 mL	MB_SIMSur_STK_00021	250 uL	1,4-Dioxane-d8	50 ug/mL
..MB_SIMSur_STK_00021	06/06/23		Restek, Lot A0171003		(Purchased Reagent)		1,4-Dioxane-d8	2000 ug/mL
MB_1,4SIM_WRK_00146	04/13/23	11/10/22	Methylene Chloride, Lot 22I1362009	10 mL	MB_1,4SIM_INT_00020	1200 uL	1,4-Dioxane	0.6 ug/mL
					MB_SIMSUR_INT_00008	1200 uL	1,4-Dioxane-d8	6 ug/mL
.MB_1,4SIM_INT_00020	04/13/23	10/13/22	Methylene Chloride, Lot 22B2362003	10 mL	MB_14Diox_STK_00031	25 uL	1,4-Dioxane	5 ug/mL
..MB_14Diox_STK_00031	04/26/23		Restek, Lot A0152693		(Purchased Reagent)		1,4-Dioxane	2000 ug/mL
.MB_SIMSUR_INT_00008	06/06/23	06/06/22	Methylene Chloride, Lot 22D0362005	10 mL	MB_SIMSur_STK_00021	250 uL	1,4-Dioxane-d8	50 ug/mL
..MB_SIMSur_STK_00021	06/06/23		Restek, Lot A0171003		(Purchased Reagent)		1,4-Dioxane-d8	2000 ug/mL
MB_1,4SIM_WRK_00147	04/13/23	11/10/22	Methylene Chloride, Lot 22I1362009	1 mL	MB_1,4SIM_INT_00020	160 uL	1,4-Dioxane	0.8 ug/mL
					MB_SIMSUR_INT_00008	160 uL	1,4-Dioxane-d8	8 ug/mL
.MB_1,4SIM_INT_00020	04/13/23	10/13/22	Methylene Chloride, Lot 22B2362003	10 mL	MB_14Diox_STK_00031	25 uL	1,4-Dioxane	5 ug/mL
..MB_14Diox_STK_00031	04/26/23		Restek, Lot A0152693		(Purchased Reagent)		1,4-Dioxane	2000 ug/mL
.MB_SIMSUR_INT_00008	06/06/23	06/06/22	Methylene Chloride, Lot 22D0362005	10 mL	MB_SIMSur_STK_00021	250 uL	1,4-Dioxane-d8	50 ug/mL
..MB_SIMSur_STK_00021	06/06/23		Restek, Lot A0171003		(Purchased Reagent)		1,4-Dioxane-d8	2000 ug/mL
MB_1,4SIM_WRK_00149	04/26/23	11/11/22	Methylene Chloride, Lot 22I1362009	1 mL	MB_14Diox_STK_00031	2.5 uL	1,4-Dioxane	5 ug/mL
					MB_SIMSur_STK_00021	25 uL	1,4-Dioxane-d8	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MB_14Diox_STK_00031	04/26/23		Restek, Lot A0152693		(Purchased Reagent)		1,4-Dioxane	2000 ug/mL
.MB_SIMSur_STK_00021	06/06/23		Restek, Lot A0171003		(Purchased Reagent)		1,4-Dioxane-d8	2000 ug/mL
MB_DFTPP_WRK_00414							4,4'-DDD	
							4,4'-DDE	
					MB_DFTPP_STK_00112	250 uL	4,4'-DDT	25 ug/mL
							DFTPP	25 ug/mL
.MB_DFTPP_STK_00112	09/20/23		Restek, Lot A0179925		(Purchased Reagent)		4,4'-DDT	1000 ug/mL
							DFTPP	1000 ug/mL
MB_DFTPP_WRK_00416							4,4'-DDD	
							4,4'-DDE	
					MB_DFTPP_STK_00113	250 uL	4,4'-DDT	25 ug/mL
							DFTPP	25 ug/mL
.MB_DFTPP_STK_00113	12/01/23		Restek, Lot A0179925		(Purchased Reagent)		4,4'-DDT	1000 ug/mL
							DFTPP	1000 ug/mL
MB_LLIS_WRK_00247	06/15/23	12/15/22	Methylene Chloride, Lot 22I1362009	10 mL	MB_INTSTD_STK_00090	1000 uL	1,4-Dichlorobenzene-d4	200 ug/mL
.MB_INTSTD_STK_00090	11/28/23		Restek, Lot A0176256		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
MB_LLIS_WRK_00250	09/14/23	03/14/23	Methylene Chloride, Lot 22K2262010	10 mL	MB_INTSTD_STK_00091	1000 uL	1,4-Dichlorobenzene-d4	200 ug/mL
.MB_INTSTD_STK_00091	01/24/24		Restek, Lot A0176256		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
MB_SIMSS_WRK_00022	06/06/23	11/11/22	Methylene Chloride, Lot 22I1362009	1 mL	MB_SIMSS_INT_00010	30 uL	1,4-Dioxane	0.3 ug/mL
					MB_SIMSUR_INT_00008	120 uL	1,4-Dioxane-d8	6 ug/mL
.MB_SIMSS_INT_00010	07/31/23	11/10/22	Methylene Chloride, Lot 22I1362009	10 mL	MB_L1S1_SS_00039	100 uL	1,4-Dioxane	10 ug/mL
..MB_L1S1_SS_00039	07/31/23		Restek, Lot A0180323		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
.MB_SIMSUR_INT_00008	06/06/23	06/06/22	Methylene Chloride, Lot 22D0362005	10 mL	MB_SIMSur_STK_00021	250 uL	1,4-Dioxane-d8	50 ug/mL
..MB_SIMSur_STK_00021	06/06/23		Restek, Lot A0171003		(Purchased Reagent)		1,4-Dioxane-d8	2000 ug/mL
OP_SIM_LCS_00021	05/04/23	11/04/22	Methanol, Lot 7212943	200 mL	O_1,4Diox_STK_00012	50 uL	1,4-Dioxane	0.5 ug/mL
.O_1,4Diox_STK_00012	02/28/25		Restek, Lot A0158185		(Purchased Reagent)		1,4-Dioxane	2000 ug/mL
OP_SimSurr_00048	07/16/23	01/16/23	Methanol, Lot 7212943	400 mL	OP_1,4diox-d8_00076	1 mL	1,4-Dioxane-d8	5 ug/mL
.OP_1,4diox-d8_00076	06/30/25		Restek, Lot A0185889		(Purchased Reagent)		1,4-Dioxane-d8	2000 ug/mL

Method 8270D SIM-ID

Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RXI-5Sil MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DXE #
RC-OW-A	480-207175-1	28
RC-OW-B	480-207175-2	33
RC-OW-C	480-207175-3	39
RC-OW-D	480-207175-4	32
RC-OW-E	480-207175-5	32
RC-OW-DUPE	480-207175-6	37
RC-OW-FB	480-207175-7	35
	MB 480-662596/1-A	33
	LCS 480-662596/2-A	35
RC-OW-B-MS MS	480-207175-2 MS	29
RC-OW-B-MSD MSD	480-207175-2 MSD	33

	QC LIMITS
DXE = 1,4-Dioxane-d8	15-110

Column to be used to flag recovery values

FORM II 8270D SIM ID

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Matrix: Water Level: Low Lab File ID: U0000001037.d

Lab ID: LCS 480-662596/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	2.00	2.08	104	40-140	
1,4-Dioxane-d8	20.0	7.02	35	15-110	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Matrix: Water Level: Low Lab File ID: U0000001038.d

Lab ID: 480-207175-2 MS Client ID: RC-OW-B-MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,4-Dioxane	2.00	0.25	2.27	101	40-140	
1,4-Dioxane-d8	20.0	6.6	5.83	29	15-110	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Matrix: Water Level: Low Lab File ID: U0000001039.d

Lab ID: 480-207175-2 MSD Client ID: RC-OW-B-MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,4-Dioxane	2.00	2.25	100	1	20	40-140	
1,4-Dioxane-d8	20.0	6.68	33			15-110	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Lab File ID: U0000001036.d Lab Sample ID: MB 480-662596/1-A

Matrix: Water Date Extracted: 03/23/2023 14:57

Instrument ID: HP5973U Date Analyzed: 03/27/2023 12:27

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-662596/2-A	U0000001037.d	03/27/2023 12:51
RC-OW-B-MS MS	480-207175-2 MS	U0000001038.d	03/27/2023 13:14
RC-OW-B-MSD MSD	480-207175-2 MSD	U0000001039.d	03/27/2023 13:38
RC-OW-B	480-207175-2	U0000001040.d	03/27/2023 14:01
RC-OW-A	480-207175-1	U0000001044.d	03/27/2023 15:34
RC-OW-D	480-207175-4	U0000001046.d	03/27/2023 16:20
RC-OW-E	480-207175-5	U0000001047.d	03/27/2023 16:43
RC-OW-DUPE	480-207175-6	U0000001048.d	03/27/2023 17:06
RC-OW-FB	480-207175-7	U0000001049.d	03/27/2023 17:29
RC-OW-C	480-207175-3	U0000001066.d	03/30/2023 13:21

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Lab File ID: U0000000431.d DFTPP Injection Date: 01/11/2023

Instrument ID: HP5973U DFTPP Injection Time: 10:14

Analysis Batch No.: 655648

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	27.7	
68	Less than 2% of mass 69	0.0	(0.1) 1
69	Mass 69 Relative abundance	30.2	
70	Less than 2% of mass 69	0.1	(0.5) 1
127	10-80% of Base Peak	40.2	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.7	
275	10-60% of Base Peak	29.4	
365	Greater than 1% of mass 198	4.1	
441	present but less than 24% of mass 442	17.8	(14.3) 2
442	Greater than 50% of mass 198	124.5	
443	15-24% of mass 442	23.3	(18.7) 2

1-Value is % mass 69 2-Value is % mass 442

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 480-655648/3	U0000000432.d	01/11/2023	10:44
	IC 480-655648/4	U0000000433.d	01/11/2023	11:06
	IC 480-655648/5	U0000000434.d	01/11/2023	11:27
	ICIS 480-655648/6	U0000000435.d	01/11/2023	11:50
	IC 480-655648/7	U0000000436.d	01/11/2023	12:12
	IC 480-655648/8	U0000000437.d	01/11/2023	12:35
	ICV 480-655648/9	U0000000438.d	01/11/2023	12:58

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Lab File ID: U0000001034.d DFTPP Injection Date: 03/27/2023

Instrument ID: HP5973U DFTPP Injection Time: 11:32

Analysis Batch No.: 662912

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	30.1	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	32.4	
70	Less than 2% of mass 69	0.1	(0.5) 1
127	10-80% of Base Peak	42.7	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.8	
275	10-60% of Base Peak	29.3	
365	Greater than 1% of mass 198	4.1	
441	present but less than 24% of mass 442	16.2	(14.5) 2
442	Greater than 50% of mass 198	111.9	
443	15-24% of mass 442	21.4	(19.1) 2

1-Value is % mass 69 2-Value is % mass 442

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 480-662912/3	U0000001035.d	03/27/2023	12:04
	MB 480-662596/1-A	U0000001036.d	03/27/2023	12:27
	LCS 480-662596/2-A	U0000001037.d	03/27/2023	12:51
RC-OW-B-MS MS	480-207175-2 MS	U0000001038.d	03/27/2023	13:14
RC-OW-B-MSD MSD	480-207175-2 MSD	U0000001039.d	03/27/2023	13:38
RC-OW-B	480-207175-2	U0000001040.d	03/27/2023	14:01
RC-OW-A	480-207175-1	U0000001044.d	03/27/2023	15:34
RC-OW-D	480-207175-4	U0000001046.d	03/27/2023	16:20
RC-OW-E	480-207175-5	U0000001047.d	03/27/2023	16:43
RC-OW-DUPE	480-207175-6	U0000001048.d	03/27/2023	17:06
RC-OW-FB	480-207175-7	U0000001049.d	03/27/2023	17:29

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Lab File ID: U0000001064.d DFTPP Injection Date: 03/30/2023

Instrument ID: HP5973U DFTPP Injection Time: 12:26

Analysis Batch No.: 663299

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	29.0	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	31.6	
70	Less than 2% of mass 69	0.2	(0.6) 1
127	10-80% of Base Peak	42.1	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.7	
275	10-60% of Base Peak	29.2	
365	Greater than 1% of mass 198	4.2	
441	present but less than 24% of mass 442	17.5	(14.8) 2
442	Greater than 50% of mass 198	117.8	
443	15-24% of mass 442	22.9	(19.4) 2

1-Value is % mass 69 2-Value is % mass 442

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 480-663299/3	U0000001065.d	03/30/2023	12:58
RC-OW-C	480-207175-3	U0000001066.d	03/30/2023	13:21

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Sample No.: ICIS 480-655648/6 Date Analyzed: 01/11/2023 11:50

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U0000000435.d Heated Purge: (Y/N) N

Calibration ID: 44407

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		692887	6.21				
UPPER LIMIT		1385774	6.71				
LOWER LIMIT		346444	5.71				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-655648/9		712909	6.21				
CCVIS 480-662912/3		466576	6.20				
CCVIS 480-663299/3		465249	6.20				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Sample No.: CCVIS 480-662912/3 Date Analyzed: 03/27/2023 12:04

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U0000001035.d Heated Purge: (Y/N) N

Calibration ID: 44407

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		466576	6.20				
UPPER LIMIT		933152	6.70				
LOWER LIMIT		233288	5.70				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-662596/1-A		447415	6.20				
LCS 480-662596/2-A		439477	6.20				
480-207175-2 MS	RC-OW-B-MS MS	462442	6.20				
480-207175-2 MSD	RC-OW-B-MSD MSD	428379	6.20				
480-207175-2	RC-OW-B	465348	6.20				
480-207175-1	RC-OW-A	450688	6.20				
480-207175-4	RC-OW-D	446280	6.20				
480-207175-5	RC-OW-E	450981	6.20				
480-207175-6	RC-OW-DUPE	421794	6.20				
480-207175-7	RC-OW-FB	461674	6.20				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Sample No.: CCVIS 480-663299/3 Date Analyzed: 03/30/2023 12:58

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U0000001065.d Heated Purge: (Y/N) N

Calibration ID: 44407

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		465249	6.20				
UPPER LIMIT		930498	6.70				
LOWER LIMIT		232625	5.70				
LAB SAMPLE ID	CLIENT SAMPLE ID						
480-207175-3	RC-OW-C	480260	6.20				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207175-1

SDG No.:

Client Sample ID: RC-OW-A | Lab Sample ID: 480-207175-1

Matrix: Water | Lab File ID: U0000001044.d

Analysis Method: 8270D SIM ID | Date Collected: 03/22/2023 16:12

Extract. Method: 3510C | Date Extracted: 03/23/2023 14:57

Sample wt/vol: 250(mL) | Date Analyzed: 03/27/2023 15:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: | % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 662912 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	28		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207175-1

SDG No.:

Client Sample ID: RC-OW-B | Lab Sample ID: 480-207175-2

Matrix: Water | Lab File ID: U0000001040.d

Analysis Method: 8270D SIM ID | Date Collected: 03/22/2023 11:30

Extract. Method: 3510C | Date Extracted: 03/23/2023 14:57

Sample wt/vol: 250(mL) | Date Analyzed: 03/27/2023 14:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 662912 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.25		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	33		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207175-1

SDG No.:

Client Sample ID: RC-OW-C | Lab Sample ID: 480-207175-3

Matrix: Water | Lab File ID: U0000001066.d

Analysis Method: 8270D SIM ID | Date Collected: 03/22/2023 10:10

Extract. Method: 3510C | Date Extracted: 03/23/2023 14:57

Sample wt/vol: 250(mL) | Date Analyzed: 03/30/2023 13:21

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 663299 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	320		4.0	2.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	39		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207175-1

SDG No.:

Client Sample ID: RC-OW-D | Lab Sample ID: 480-207175-4

Matrix: Water | Lab File ID: U0000001046.d

Analysis Method: 8270D SIM ID | Date Collected: 03/22/2023 16:45

Extract. Method: 3510C | Date Extracted: 03/23/2023 14:57

Sample wt/vol: 250(mL) | Date Analyzed: 03/27/2023 16:20

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 662912 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.3		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	32		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207175-1

SDG No.:

Client Sample ID: RC-OW-E | Lab Sample ID: 480-207175-5

Matrix: Water | Lab File ID: U0000001047.d

Analysis Method: 8270D SIM ID | Date Collected: 03/22/2023 15:06

Extract. Method: 3510C | Date Extracted: 03/23/2023 14:57

Sample wt/vol: 250(mL) | Date Analyzed: 03/27/2023 16:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 662912 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	32		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207175-1

SDG No.:

Client Sample ID: RC-OW-DUPE | Lab Sample ID: 480-207175-6

Matrix: Water | Lab File ID: U0000001048.d

Analysis Method: 8270D SIM ID | Date Collected: 03/22/2023 15:20

Extract. Method: 3510C | Date Extracted: 03/23/2023 14:57

Sample wt/vol: 250(mL) | Date Analyzed: 03/27/2023 17:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 662912 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	37		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207175-1

SDG No.:

Client Sample ID: RC-OW-FB | Lab Sample ID: 480-207175-7

Matrix: Water | Lab File ID: U0000001049.d

Analysis Method: 8270D SIM ID | Date Collected: 03/22/2023 10:25

Extract. Method: 3510C | Date Extracted: 03/23/2023 14:57

Sample wt/vol: 250(mL) | Date Analyzed: 03/27/2023 17:29

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 662912 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.17	J	0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	35		15-110

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-207175-1 Analy Batch No.: 655648

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/11/2023 10:44 Calibration End Date: 01/11/2023 12:35 Calibration ID: 44407

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-655648/3	U0000000432.d
Level 2	IC 480-655648/4	U0000000433.d
Level 3	IC 480-655648/5	U0000000434.d
Level 4	ICIS 480-655648/6	U0000000435.d
Level 5	IC 480-655648/7	U0000000436.d
Level 6	IC 480-655648/8	U0000000437.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5 LVL 6		B	M1	M2								
1,4-Dioxane	1.1137 1.2859	1.0961	1.1001	1.0972	1.0998	AveID		1.1321			0.0100	6.7		20.0			
1,4-Dioxane-d8	0.5639 0.4604	0.5529	0.5905	0.5540	0.5519	Ave		0.5456			0.0100	8.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-207175-1 Analy Batch No.: 655648

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/11/2023 10:44 Calibration End Date: 01/11/2023 12:35 Calibration ID: 44407

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-655648/3	U0000000432.d
Level 2	IC 480-655648/4	U0000000433.d
Level 3	IC 480-655648/5	U0000000434.d
Level 4	ICIS 480-655648/6	U0000000435.d
Level 5	IC 480-655648/7	U0000000436.d
Level 6	IC 480-655648/8	U0000000437.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane		AveID	5288 522566	20658	41709	63173	82746	0.0500 5.00	0.200	0.400	0.600	0.800
1,4-Dioxane-d8	DCBd4	Ave	47481 4063781	188472	379122	575787	752382	0.500 50.0	2.00	4.00	6.00	8.00

Curve Type Legend

Ave = Average ISTD
AveID = Average isotope dilution

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-207175-1 Analy Batch No.: 655648

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/11/2023 10:44 Calibration End Date: 01/11/2023 12:35 Calibration ID: 44407

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-655648/3	U0000000432.d
Level 2	IC 480-655648/4	U0000000433.d
Level 3	IC 480-655648/5	U0000000434.d
Level 4	ICIS 480-655648/6	U0000000435.d
Level 5	IC 480-655648/7	U0000000436.d
Level 6	IC 480-655648/8	U0000000437.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dioxane	-1.6	-3.2	-2.8	-3.1	-2.9	13.6	30	30	30	30	30	30
1,4-Dioxane-d8	3.4	1.3	8.2	1.5	1.2	-15.6	30	30	30	30	30	30

Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

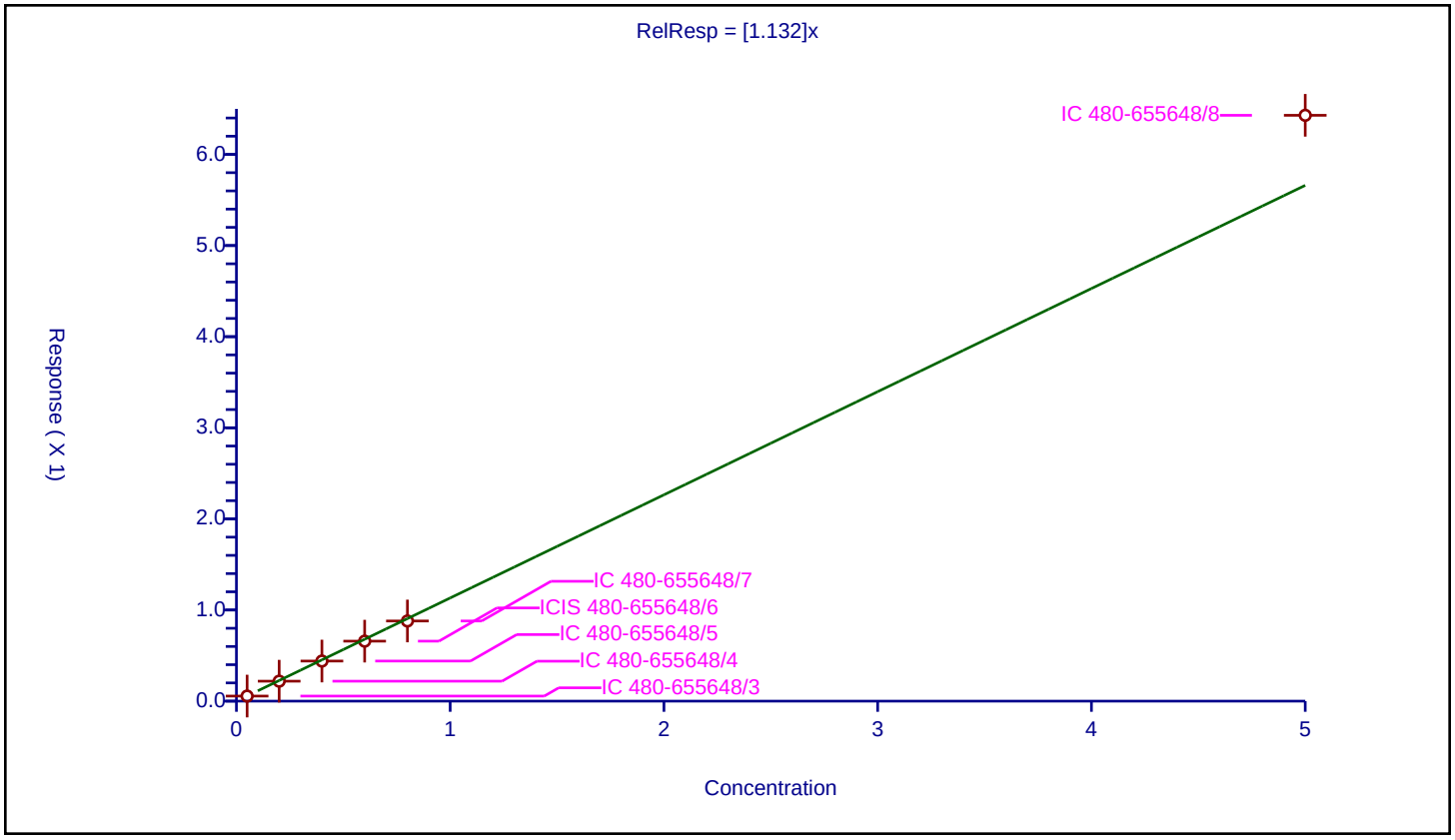
Curve Coefficients

Intercept:	0
Slope:	1.132

Error Coefficients

Standard Error:	239000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-655648/3	0.05	0.055685	0.5	47481.0	1.113709	Y
2	IC 480-655648/4	0.2	0.219216	2.0	188472.0	1.096078	Y
3	IC 480-655648/5	0.4	0.440059	4.0	379122.0	1.100147	Y
4	ICIS 480-655648/6	0.6	0.658296	6.0	575787.0	1.097159	Y
5	IC 480-655648/7	0.8	0.87983	8.0	752382.0	1.099787	Y
6	IC 480-655648/8	5.0	6.429554	50.0	4063781.0	1.285911	Y



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Lab Sample ID: ICV 480-655648/9 Calibration Date: 01/11/2023 12:58

Instrument ID: HP5973U Calib Start Date: 01/11/2023 10:44

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 01/11/2023 12:35

Lab File ID: U0000000438.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	1.132	1.112	0.0100	295	300	-1.8	20.0
1,4-Dioxane-d8	Ave	0.5456	0.5312	0.0100	5840	6000	-2.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Lab Sample ID: CCVIS 480-662912/3 Calibration Date: 03/27/2023 12:04

Instrument ID: HP5973U Calib Start Date: 01/11/2023 10:44

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 01/11/2023 12:35

Lab File ID: U0000001035.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	1.132	1.107	0.0100	587	600	-2.2	20.0
1,4-Dioxane-d8	Ave	0.5456	0.5444	0.0100	5990	6000	-0.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Lab Sample ID: CCVIS 480-663299/3 Calibration Date: 03/30/2023 12:58

Instrument ID: HP5973U Calib Start Date: 01/11/2023 10:44

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 01/11/2023 12:35

Lab File ID: U0000001065.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	1.132	1.101	0.0100	583	600	-2.8	20.0
1,4-Dioxane-d8	Ave	0.5456	0.5648	0.0100	6210	6000	3.5	20.0

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207175-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-662596/1-A

Matrix: Water | Lab File ID: U0000001036.d

Analysis Method: 8270D SIM ID | Date Collected:

Extract. Method: 3510C | Date Extracted: 03/23/2023 14:57

Sample wt/vol: 250(mL) | Date Analyzed: 03/27/2023 12:27

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 662912 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	33		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207175-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-662596/2-A

Matrix: Water | Lab File ID: U0000001037.d

Analysis Method: 8270D SIM ID | Date Collected:

Extract. Method: 3510C | Date Extracted: 03/23/2023 14:57

Sample wt/vol: 250(mL) | Date Analyzed: 03/27/2023 12:51

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 662912 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	2.08		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	35		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207175-1

SDG No.:

Client Sample ID: RC-OW-B-MS MS | Lab Sample ID: 480-207175-2 MS

Matrix: Water | Lab File ID: U0000001038.d

Analysis Method: 8270D SIM ID | Date Collected: 03/22/2023 11:30

Extract. Method: 3510C | Date Extracted: 03/23/2023 14:57

Sample wt/vol: 250(mL) | Date Analyzed: 03/27/2023 13:14

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 662912 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	2.27		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	29		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-207175-1

SDG No.:

Client Sample ID: RC-OW-B-MSD MSD | Lab Sample ID: 480-207175-2 MSD

Matrix: Water | Lab File ID: U0000001039.d

Analysis Method: 8270D SIM ID | Date Collected: 03/22/2023 11:30

Extract. Method: 3510C | Date Extracted: 03/23/2023 14:57

Sample wt/vol: 250(mL) | Date Analyzed: 03/27/2023 13:38

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 662912 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	2.25		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	33		15-110

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Instrument ID: HP5973U Start Date: 01/11/2023 10:14

Analysis Batch Number: 655648 End Date: 01/11/2023 16:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-655648/2		01/11/2023 10:14	1	U0000000431.d	RXI-5Sil MS(0.5 0.25(mm)
IC 480-655648/3		01/11/2023 10:44	1	U0000000432.d	RXI-5Sil MS(0.5 0.25(mm)
IC 480-655648/4		01/11/2023 11:06	1	U0000000433.d	RXI-5Sil MS(0.5 0.25(mm)
IC 480-655648/5		01/11/2023 11:27	1	U0000000434.d	RXI-5Sil MS(0.5 0.25(mm)
ICIS 480-655648/6		01/11/2023 11:50	1	U0000000435.d	RXI-5Sil MS(0.5 0.25(mm)
IC 480-655648/7		01/11/2023 12:12	1	U0000000436.d	RXI-5Sil MS(0.5 0.25(mm)
IC 480-655648/8		01/11/2023 12:35	1	U0000000437.d	RXI-5Sil MS(0.5 0.25(mm)
ICV 480-655648/9		01/11/2023 12:58	1	U0000000438.d	RXI-5Sil MS(0.5 0.25(mm)
CCVIS 480-655648/10		01/11/2023 13:20	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		01/11/2023 13:43	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		01/11/2023 14:05	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		01/11/2023 14:27	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		01/11/2023 14:50	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		01/11/2023 15:12	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		01/11/2023 15:35	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		01/11/2023 15:58	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		01/11/2023 16:21	1		RXI-5Sil MS(0.5 0.25(mm)

8270D SIM ID

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Instrument ID: HP5973U Start Date: 03/27/2023 11:32

Analysis Batch Number: 662912 End Date: 03/27/2023 20:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-662912/2		03/27/2023 11:32	1	U0000001034.d	RXI-5Sil MS(0.5 0.25(mm)
CCVIS 480-662912/3		03/27/2023 12:04	1	U0000001035.d	RXI-5Sil MS(0.5 0.25(mm)
MB 480-662596/1-A		03/27/2023 12:27	1	U0000001036.d	RXI-5Sil MS(0.5 0.25(mm)
LCS 480-662596/2-A		03/27/2023 12:51	1	U0000001037.d	RXI-5Sil MS(0.5 0.25(mm)
480-207175-2 MS	RC-OW-B-MS MS	03/27/2023 13:14	1	U0000001038.d	RXI-5Sil MS(0.5 0.25(mm)
480-207175-2 MSD	RC-OW-B-MSD MSD	03/27/2023 13:38	1	U0000001039.d	RXI-5Sil MS(0.5 0.25(mm)
480-207175-2	RC-OW-B	03/27/2023 14:01	1	U0000001040.d	RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 14:25	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 14:48	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 15:11	1		RXI-5Sil MS(0.5 0.25(mm)
480-207175-1	RC-OW-A	03/27/2023 15:34	1	U0000001044.d	RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 15:57	1		RXI-5Sil MS(0.5 0.25(mm)
480-207175-4	RC-OW-D	03/27/2023 16:20	1	U0000001046.d	RXI-5Sil MS(0.5 0.25(mm)
480-207175-5	RC-OW-E	03/27/2023 16:43	1	U0000001047.d	RXI-5Sil MS(0.5 0.25(mm)
480-207175-6	RC-OW-DUPE	03/27/2023 17:06	1	U0000001048.d	RXI-5Sil MS(0.5 0.25(mm)
480-207175-7	RC-OW-FB	03/27/2023 17:29	1	U0000001049.d	RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 17:52	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 18:14	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 18:37	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 19:00	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 19:23	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 19:46	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 20:09	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 20:32	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/27/2023 20:54	1		RXI-5Sil MS(0.5 0.25(mm)

8270D SIM ID

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Instrument ID: HP5973U Start Date: 03/30/2023 12:26

Analysis Batch Number: 663299 End Date: 03/30/2023 20:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-663299/2		03/30/2023 12:26	1	U0000001064.d	RXI-5Sil MS(0.5 0.25(mm)
CCVIS 480-663299/3		03/30/2023 12:58	1	U0000001065.d	RXI-5Sil MS(0.5 0.25(mm)
480-207175-3	RC-OW-C	03/30/2023 13:21	20	U0000001066.d	RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 13:43	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 14:06	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 14:29	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 14:51	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 15:14	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 15:37	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 16:00	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 16:24	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 16:47	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 17:11	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 17:34	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 17:56	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 18:19	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 18:41	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 19:04	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 19:27	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 19:50	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		03/30/2023 20:13	1		RXI-5Sil MS(0.5 0.25(mm)

8270D SIM ID

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Batch Number: 655648 Batch Start Date: 01/11/23 10:14 Batch Analyst: Marshall, Joseph M

Batch Method: 8270D SIM ID Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	MB_1,4SIM_WRK 00143	MB_1,4SIM_WRK 00144	MB_1,4SIM_WRK 00145	MB_1,4SIM_WRK 00146	MB_1,4SIM_WRK 00147
DFTPP 480-655648/2		8270D SIM ID		1 mL					
IC 480-655648/3		8270D SIM ID		1 mL	1 mL				
IC 480-655648/4		8270D SIM ID		1 mL		1 mL			
IC 480-655648/5		8270D SIM ID		1 mL			1 mL		
ICIS 480-655648/6		8270D SIM ID		1 mL				1 mL	
IC 480-655648/7		8270D SIM ID		1 mL					1 mL
IC 480-655648/8		8270D SIM ID		1 mL					
ICV 480-655648/9		8270D SIM ID		1 mL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	MB_1,4SIM_WRK 00149	MB_DFTPP_WRK 00414	MB_LLIS_WRK 00247	MB_SIMSS_WRK 00022		
DFTPP 480-655648/2		8270D SIM ID			1 mL				
IC 480-655648/3		8270D SIM ID				20 uL			
IC 480-655648/4		8270D SIM ID				20 uL			
IC 480-655648/5		8270D SIM ID				20 uL			
ICIS 480-655648/6		8270D SIM ID				20 uL			
IC 480-655648/7		8270D SIM ID				20 uL			
IC 480-655648/8		8270D SIM ID		1 mL		20 uL			
ICV 480-655648/9		8270D SIM ID				20 uL	1 mL		

Batch Notes	

Basis	Basis Description

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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Batch Number: 662596 Batch Start Date: 03/23/23 14:57 Batch Analyst: Capelli, Lane S

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	OP_SIM_LCS 00021	OP_SimSurr 00048
MB 480-662596/1		3510C, 8270D SIM ID		250 mL	1 mL	7 SU	<2 SU		1 mL
LCS 480-662596/2		3510C, 8270D SIM ID		250 mL	1 mL	7 SU	<2 SU	1 mL	1 mL
480-207175-B-2 MS	RC-OW-B-MS	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU	1 mL	1 mL
480-207175-B-2 MSD	RC-OW-B-MSD	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU	1 mL	1 mL
480-207175-B-2	RC-OW-B	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU		1 mL
480-207175-A-1	RC-OW-A	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU		1 mL
480-207175-B-3	RC-OW-C	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU		1 mL
480-207175-B-4	RC-OW-D	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU		1 mL
480-207175-B-5	RC-OW-E	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU		1 mL
480-207175-B-6	RC-OW-DUPE	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU		1 mL
480-207175-B-7	RC-OW-FB	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU		1 mL

Batch Notes	
Method/Fraction	3510C_LVI/8270D_SIM_MS_ID
Analyst ID - Extraction	LC
Analyst ID - Spike Analyst	LC
Analyst ID - Spike Witness Analyst	LC
Sufficient Volume for Batch QC	Yes
Acid Used for pH Adjustment ID	7360965
Prep Solvent ID	7365582
Prep Solvent Volume Used	60 mL
Na2SO4 ID	7352175 (unbaked)
Analyst ID - Concentration	LC
Vial Lot Number	00259742

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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-207175-1

SDG No.:

Batch Number: 662596 Batch Start Date: 03/23/23 14:57 Batch Analyst: Capelli, Lane S

Batch Method: 3510C Batch End Date:

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.

Shipping and Receiving Documents

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Patrick Suter	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-183292-38871.1
Client Contact: Ms. Laura Best	Phone: 585-559-9625	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Stantec Consulting Services Inc	PWSID:			Job #:

Address: 61 Commercial Street Suite100	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Rochester	TAT Requested (days): 10-DAY		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, 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, Y - Trizma, Z - other (specify)
State, Zip: NY, 14614	Compliance Project: Δ Yes Δ No		
Phone: 631-972-5998(Tel)	PO #: Purchase Order not required		Other:
Email: laura.best@stantec.com	WO #:		
Project Name: Wayne County, NY	Project #: 48026060		
Site: 1071 NY Rt. 31 Rando Corp. Site	SSOW#:		

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)	8270D_SIM_MS_ID - 1,4-Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
RC-OW-A	3/22/23	1612	G	Water	N	N	X		
RC-OW-B		1130		Water			X		
RC-OW-C		1010		Water			X		
RC-OW-D		1645		Water			X		
RC-OW-E		1506		Water			X		
RC-OW-DUPE		1520		Water		↓	X		
~~RC-OW-MS~~ RC-OW-B-MS		1130		Water		X	X		
~~RC-OW-MSD~~ RC-OW-B-MSD		1130		Water		X	X		
RC-OW-FB	↓	1025	↓	Water	↓	N	X		
				Water					
				Water					

480-207175 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Cat. B	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Christiana Delucca	3/22/23 1900	STN	FEDEX	3/22/23 1900	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				3/23/23 1000	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.7 # Ice

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 480-207175-1

Login Number: 207175
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins Buffalo

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	STN
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 B – SITE INSPECTION DOCUMENTATION

DWIGHT H. SUPPLEMENTAL INSPECTION 4/27/2023

SITE-WIDE INSPECTION **Day:** 1 of 1 **Date:** 3/22/2023

41 F

NYSDEC		Temperature: (F)	35 F	(am)	52 F	(pm)
Site Owner: Wayne County Land Bank **Current Site Use: Vacant**		Wind Direction/Speed:	5 mph SSW	(am)	15 mph SW	(pm)
RANDO CORPORATION **NYSDEC Site # 859014**		Weather:	(am) (pm) Partly cloudy			
Macedon, New York		Arrive at site	0800 AM 0742	(am)		
		Leave site:	0845 AM 1720	(pm)		

Site Security

Evidence of vandalism (fence, gate, wells):

Wells were all locked and secured prior to sampling. No exterior evidence of vandalism on the property however there was some spray paint on the walls (not recent) in the interior of the building.

Evidence of digging:

No evidence of digging.

General site condition (fence, gate, wells, vegetative cover):

The property is not gated or fenced. All vegetative cover appears undisturbed and no evidence of discoloration or impaired growth was observed.

Additional Comments:

- PICK-UP TRUCK IN REAR PARKING LOT
- BUILDING DOORS ARE ALL LOCKED

SITE-WIDE INSPECTION **Day: 1 of 1 Date: 3/22/2023**

Vegetative Cover

Evidence of vegetation mortality:

None

Evidence of erosion/dust:

None

Additional Comments:

N/A

Site Drainage

Evidence of ponding within retention area:

N/A

Evidence of site runoff:

None

SITE-WIDE INSPECTION **Day: 1 of 1 Date: 3/22/2023**

Additional Comments:

Site Monitoring Wells

Are there any new cracks in the concrete collars of the site related MWs?

No

Are monitoring wells locked?

Yes, the outer riser covering each well is locked. Due to not having the keys for these locks, bolt cutters were used to remove them prior to sampling.

- CURRENTLY NO LOCKS -

Do monitoring wells have caps?

Within the riser covering, B206-OWB and B412- OWD did not have additional j-plugs for the inner casing.

Are the private wells operational?

N/A

Report No. ### **Rando Corporation Site - NYSDEC Site No. 859014** Date: 3/22/2023

NYSDEC
Division of Environmental Remediation

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

NYSDEC Contract No.

Superintendent:

NYSDEC PM: Joshua Klier

Consultant PM: Steve Campbell

Consultant Site Inspectors:

Site Location: 1071 New York State Route 31, Macedon, NY

Weather Conditions

General Description	cloudy	AM	cloudy	PM
Temperature	30's	AM	40's-50's	PM
Wind	5 mph	AM	5 mph	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No ✓	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA ✓
Were there any nuisance issues reported/observed on this date?	*Yes	No ✓	NA

Health & Safety Comments

All work was performed in adherence to the site health and safety plan.

Summary of Work Performed	Arrived at site:	0742	Departed Site:	1720

Groundwater sampling of the five on-site wells was performed as well as an interior and exterior inspection of the building.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No	NA ✓
Were there any vehicles which were not tarped?	* Yes	No	NA ✓
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA ✓

Personnel and Equipment

Individual	Company	Trade	Total Hours
Patrick Suter	Stantec	Environmental Scientist	9.75
Christiana DeLuca	Stantec	Environmental Scientist	9.75
Laura Best	Stantec	Environmental Scientist	2.5

Equipment Description	Contractor/Vendor	Quantity	Used
N/A			

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
N/A						

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
N/A		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing
N/A	

Project Schedule Comments

N/A

Issues Pending

N/A

Interaction with Public, Property Owners, Media, etc.

In the morning (~0930) the neighbor with a farm directly east of the site stopped by the site to see what was being done onsite. He expressed knowledge of the site contamination.

Include (insert) figures with markups showing location of work and job progress

Site Photographs (Descriptions Below)	

Comments	
Site Inspector(s):	**Date:**

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:		

REMEDIAL ACTIVITIES AT PROPERTIES

1. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☑
2. Is anyone at this location isolated or quarantined for COVID-19?	Yes ☐	No ☑
3. Has anyone at this locaton had contact with anyone known to have COVID-19 in the past 14 days?	Yes ☐	No ☑
4. Does anyone at this locaton have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☑
5. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☑	No ☐
If Yes to any of 1-4 above: • If it is not critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry. • If it is critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.	Yes ☐	No ☐

Comments:

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☑	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☑	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☑
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☑
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☐	N/A☑
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☑
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☑
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☑	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☑
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☑
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☑
Comments:			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is the site supplied with green power and is it properly installed and/or maintained?	Yes ☐	No ☑	N/A☐
Is the site employing 2007 or newer or retrofitted diesel trucks?	Yes ☐	No ☐	N/A☑
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☑
Is equipment properly maintained and operated by trained personnel?	Yes ☐	No ☐	N/A☑
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☑
Is there an onsite recycling program for CONTRACTOR generated wastes and is it complied with?	Yes ☐	No ☐	N/A☑
Are office trailer heating and cooling systems maintained at efficient set points?	AM ☐	PM ☐	N/A☑
Are products and materials appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☑

Are resiliency features included in the design or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☑
Are green remediation elements included in the design or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☑
Are appropriate metrics documented for inclusion on Form A, Summary of Green Remediation Metrics, by the CONTRACTOR?	Yes ☐	No ☐	N/A☑
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☑
Comments:			

SITE-WIDE INSPECTION **Day: __1 of 1_____ Date: __3/22/2023**

NYSDEC		Temperature: (F)	35 F	(am)	52 F	(pm)
Site Owner: _Wayne County Land Bank___ **Current Site Use: Vacant_____**		Wind Direction/Speed:	5 mph SSW	(am)	15 mph SW	(pm)
RANDO CORPORATION		Weather:	(am) (pm) Partly cloudy			
NYSDEC Site # 859014						
Macedon, New York		Arrive at site	0742	(am)		
		Leave site:	1720	(pm)		

Site Security

Evidence of vandalism (fence, gate, wells):

Wells were all locked and secured prior to sampling. No exterior evidence of vandalism on the property however there was some spray paint on the walls (not recent) in the interior of the building.

Evidence of digging:

No evidence of digging.

General site condition (fence, gate, wells, vegetative cover):

The property is not gated or fenced. All vegetative cover appears undisturbed and no evidence of discoloration or impaired growth was observed.

Additional Comments:

Vegetative Cover

Evidence of vegetation mortality:

None

Evidence of erosion/dust:

None

Additional Comments:

N/A

Site Drainage

Evidence of ponding within retention area:

N/A

Evidence of site runoff:

None

Additional Comments:

Site Monitoring Wells

Are there any new cracks in the concrete collars of the site related MWs?

No

Are monitoring wells locked?

Yes, the outer riser covering each well is locked. Due to not having the keys for these locks, bolt cutters were used to remove them prior to sampling.

Do monitoring wells have caps?

Within the riser covering, B206-OWB and B412- OWD did not have additional j-plugs for the inner casing.

Are the private wells operational?

N/A

APPENDIX C – INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORM

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. 859014

Site Name Rando Corporation

Site Address: The Commons, Rt 31 Zip Code: 14502
City/Town: Macedon
County: Wayne
Site Acreage: ~~0.500~~ 5.01

Reporting Period: March 30, 2022 to March 30, 2023

	YES	NO
1. Is the information above correct?	☐	x
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	x
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	x
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	x
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	x

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below?	x	☐
7. Are all ICs in place and functioning as designed?	x	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative _____ Date _____

SITE NO. 859014 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
30111-00-184774		Monitoring Plan
		Groundwater Use Restriction
		Landuse Restriction

Box 4

Description of Engineering Controls

Parcel	Engineering Control
30111-00-184774	Vapor Mitigation

SSD system installed March 2013.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
x	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
x	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

IC CERTIFICATIONS
SITE NO.

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Mark Humbert (print name) at 16 William St. Lyons, NY (print business address),

am certifying as representative for Wayne County Regional Land Bank (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Executive Director WCRLB 7/26/2023

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification — Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I DWIGHT HARRIENGER at STANTEC CONSULTING SERVICES INC 61 COMMERCIAL STREET, SUITE 100 Rochester, NEW YORK 14614,

print name — print business address

am certifying as a Professional Engineer for the OWNER

(Owner or Remedial Party)

Dwight Harrienger — 4/27/2023

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

Date