284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Cover Page

**Order ID :** P5277

**Project ID :** Tanner G. Duckrey Public School

**Client :** Kleinfelder

| Lab Sample Number | Client Sample Number |
|---|---|
| P5277-01 | COMP-1A |
| P5277-02 | COMP-2A |
| P5277-03 | COMP-3A |

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 12/19/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

# DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

| | |
|---|---|
| Value | If the result is a value greater than or equal to the detection limit, report the value |
| **U** | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required. |
| **ND** | Indicates the analyte was analyzed for, but not detected |
| **J** | Indicates an estimated value**.** This flag is used:<br>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)<br>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others. |
| **B** | Indicates the analyte was found in the blank as well as the sample report as "12 B". |
| **E** | Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis. |
| **D** | This flag identifies all compounds identified in an analysis at a secondary dilution factor. |
| **P** | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P". |
| **N** | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used. |
| **A** | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product. |
| **Q** | Indicates the LCS did not meet the control limits requirements |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**APPENDIX A**

**QA REVIEW GENERAL DOCUMENTATION**

**Project #:** **P5277**

| | Completed |
|---|---|
| **For thorough review, the report must have the following:** | |
| **GENERAL:** | |
| **Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)** | ✓ |
| **Check chain-of-custody for proper relinquish/return of samples** | ✓ |
| **Is the chain of custody signed and complete** | ✓ |
| **Check internal chain-of-custody for proper relinquish/return of samples /sample extracts** | ✓ |
| **Collect information for each project id from server. Were all requirements followed** | ✓ |
| **COVER PAGE:** | |
| **Do numbers of samples correspond to the number of samples in the Chain of Custody on login page** | ✓ |
| **Do lab numbers and client Ids on cover page agree with the Chain of Custody** | ✓ |
| **CHAIN OF CUSTODY:** | |
| **Do requested analyses on Chain of Custody agree with form I results** | ✓ |
| **Do requested analyses on Chain of Custody agree with the log-in page** | ✓ |
| **Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody** | ✓ |
| **Were the samples received within hold time** | ✓ |
| **Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle** | ✓ |
| **ANALYTICAL:** | |
| **Was method requirement followed?** | ✓ |
| **Was client requirement followed?** | ✓ |
| **Does the case narrative summarize all QC failure?** | ✓ |
| **All runlogs and manual integration are reviewed for requirements** | ✓ |
| **All manual calculations and /or hand notations verified** | ✓ |

**QA Review Signature:** **KETAN PATEL** **Date:** **12/19/2024**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P5277 | **OrderDate:** | 12/13/2024 11:44:00 AM |
| **Client:** | Kleinfelder | **Project:** | Tanner G. Duckrey Public School |
| **Contact:** | Mark Warchol | **Location:** | L41,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P5277-01** | **COMP-1A** | **SOIL** | | | **12/12/24** | | | **12/13/24** |
| | | | VOCMS Group1 | 8260D | | | 12/19/24 | |
| **P5277-02** | **COMP-2A** | **SOIL** | | | **12/12/24** | | | **12/13/24** |
| | | | VOCMS Group1 | 8260D | | | 12/18/24 | |
| **P5277-03** | **COMP-3A** | **SOIL** | | | **12/12/24** | | | **12/13/24** |
| | | | VOCMS Group1 | 8260D | | | 12/18/24 | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Hit Summary Sheet
**SW-846**

**SDG No.:** P5277

**Client:** Kleinfelder

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|

**Client ID:**

0

**Total Voc :**

**Total Concentration:**


# QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Surrogate Summary

**SDG No.:** P5277

**Client:** Kleinfelder

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| P5277-01 | COMP-1A | 1,2-Dichloroethane-d4 | 50 | 48.3 | 97 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 43.5 | 87 | 54 | 147 |
| | | Toluene-d8 | 50 | 49.5 | 99 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 44.6 | 89 | 29 | 146 |
| P5277-02 | COMP-2A | 1,2-Dichloroethane-d4 | 50 | 53.8 | 108 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 39.5 | 79 | 54 | 147 |
| | | Toluene-d8 | 50 | 48.4 | 97 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 36.9 | 74 | 29 | 146 |
| P5277-03 | COMP-3A | 1,2-Dichloroethane-d4 | 50 | 53.6 | 107 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 45.0 | 90 | 54 | 147 |
| | | Toluene-d8 | 50 | 48.7 | 97 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 37.5 | 75 | 29 | 146 |
| VY1218SBL01 | VY1218SBL01 | 1,2-Dichloroethane-d4 | 50 | 49.7 | 99 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 44.7 | 89 | 54 | 147 |
| | | Toluene-d8 | 50 | 48.4 | 97 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 37.4 | 75 | 29 | 146 |
| VY1218SBS01 | VY1218SBS01 | 1,2-Dichloroethane-d4 | 50 | 48.4 | 97 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 48.3 | 97 | 54 | 147 |
| | | Toluene-d8 | 50 | 48.7 | 97 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 46.3 | 93 | 29 | 146 |
| VY1218SBSD01 | VY1218SBSD01 | 1,2-Dichloroethane-d4 | 50 | 51.7 | 103 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 50.1 | 100 | 54 | 147 |
| | | Toluene-d8 | 50 | 51.5 | 103 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 48.3 | 97 | 29 | 146 |
| VY1219SBL01 | VY1219SBL01 | 1,2-Dichloroethane-d4 | 50 | 44.5 | 89 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 45.8 | 92 | 54 | 147 |
| | | Toluene-d8 | 50 | 43.8 | 88 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 40.3 | 81 | 29 | 146 |
| VY1219SBS01 | VY1219SBS01 | 1,2-Dichloroethane-d4 | 50 | 54.5 | 109 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 55.5 | 111 | 54 | 147 |
| | | Toluene-d8 | 50 | 55.5 | 111 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 53.5 | 107 | 29 | 146 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P5277

**Client:** Kleinfelder

**Analytical Method:** SW8260D **Datafile :** VY020626.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1218SBS01 | cis-1,2-Dichloroethene | 20 | 19.2 | ug/Kg | 96 | | | 82 | 123 | |
| | 1,1,1-Trichloroethane | 20 | 19.4 | ug/Kg | 97 | | | 80 | 126 | |
| | Benzene | 20 | 19.5 | ug/Kg | 98 | | | 84 | 121 | |
| | Trichloroethene | 20 | 19.4 | ug/Kg | 97 | | | 83 | 122 | |
| | Toluene | 20 | 19.3 | ug/Kg | 97 | | | 83 | 122 | |
| | Ethyl Benzene | 20 | 19.3 | ug/Kg | 97 | | | 82 | 124 | |
| | m/p-Xylenes | 40 | 38.3 | ug/Kg | 96 | | | 83 | 124 | |
| | o-Xylene | 20 | 19.1 | ug/Kg | 96 | | | 83 | 123 | |
| | Isopropylbenzene | 20 | 19.1 | ug/Kg | 96 | | | 82 | 124 | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P5277

**Client:** Kleinfelder

**Analytical Method:** SW8260D **Datafile :** VY020627.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1218SBSD01 | cis-1,2-Dichloroethene | 20 | 20.8 | ug/Kg | 104 | 8 | | 82 | 123 | 20 |
| | 1,1,1-Trichloroethane | 20 | 20.8 | ug/Kg | 104 | 7 | | 80 | 126 | 20 |
| | Benzene | 20 | 20.7 | ug/Kg | 104 | 6 | | 84 | 121 | 20 |
| | Trichloroethene | 20 | 20.7 | ug/Kg | 104 | 7 | | 83 | 122 | 20 |
| | Toluene | 20 | 20.4 | ug/Kg | 102 | 5 | | 83 | 122 | 20 |
| | Ethyl Benzene | 20 | 20.3 | ug/Kg | 102 | 5 | | 82 | 124 | 20 |
| | m/p-Xylenes | 40 | 40.6 | ug/Kg | 102 | 6 | | 83 | 124 | 20 |
| | o-Xylene | 20 | 20.6 | ug/Kg | 103 | 7 | | 83 | 123 | 20 |
| | Isopropylbenzene | 20 | 20.1 | ug/Kg | 101 | 5 | | 82 | 124 | 20 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P5277

**Client:** Kleinfelder

**Analytical Method:** SW8260D **Datafile :** VY020647.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1219SBS01 | cis-1,2-Dichloroethene | 20 | 21.3 | ug/Kg | 106 | | | 82 | 123 | |
| | 1,1,1-Trichloroethane | 20 | 21.2 | ug/Kg | 106 | | | 80 | 126 | |
| | Benzene | 20 | 21.4 | ug/Kg | 107 | | | 84 | 121 | |
| | Trichloroethene | 20 | 21.4 | ug/Kg | 107 | | | 83 | 122 | |
| | Toluene | 20 | 21.5 | ug/Kg | 108 | | | 83 | 122 | |
| | Ethyl Benzene | 20 | 21.2 | ug/Kg | 106 | | | 82 | 124 | |
| | m/p-Xylenes | 40 | 42.9 | ug/Kg | 107 | | | 83 | 124 | |
| | o-Xylene | 20 | 21.7 | ug/Kg | 109 | | | 83 | 123 | |
| | Isopropylbenzene | 20 | 21.1 | ug/Kg | 106 | | | 82 | 124 | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1218SBL01

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020625.D Lab Sample ID: VY1218SBL01

Date Analyzed: 12/18/2024 Time Analyzed: 10:52

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VY1218SBS01 | VY1218SBS01 | VY020626.D | 12/18/2024 |
| VY1218SBSD01 | VY1218SBSD01 | VY020627.D | 12/18/2024 |
| COMP-2A | P5277-02 | VY020629.D | 12/18/2024 |
| COMP-3A | P5277-03 | VY020630.D | 12/18/2024 |

COMMENTS:

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1219SBL01

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020646.D Lab Sample ID: VY1219SBL01

Date Analyzed: 12/19/2024 Time Analyzed: 11:07

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VY1219SBS01 | VY1219SBS01 | VY020647.D | 12/19/2024 |
| COMP-1A | P5277-01 | VY020660.D | 12/19/2024 |

COMMENTS:

Raw Data: **VY020611.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020611.D BFB Injection Date: 12/17/2024

Instrument ID: MSVOA_Y BFB Injection Time: 09:00

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 19.8 |
| 75 | 30.0 - 60.0% of mass 95 | 52.6 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.5 |
| 173 | Less than 2.0% of mass 174 | 1 ( 1.3 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 77.1 |
| 175 | 5.0 - 9.0% of mass 174 | 6.2 ( 8 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 74.2 ( 96.3 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.8 ( 6.5 ) 2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC010 | VSTDICC010 | VY020613.D | 12/17/2024 | 10:01 |
| VSTDICC020 | VSTDICC020 | VY020614.D | 12/17/2024 | 10:23 |
| VSTDICCC050 | VSTDICCC050 | VY020615.D | 12/17/2024 | 10:51 |
| VSTDICC100 | VSTDICC100 | VY020616.D | 12/17/2024 | 11:14 |
| VSTDICC150 | VSTDICC150 | VY020617.D | 12/17/2024 | 11:37 |
| VSTDICC005 | VSTDICC005 | VY020619.D | 12/17/2024 | 14:51 |

Raw Data: **VY020622.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020622.D BFB Injection Date: 12/18/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:46

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 19.4 |
| 75 | 30.0 - 60.0% of mass 95 | 52.4 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 7 |
| 173 | Less than 2.0% of mass 174 | 0.7 ( 0.9 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 78.5 |
| 175 | 5.0 - 9.0% of mass 174 | 5.8 ( 7.4 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 76.1 ( 97 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.1 ( 6.7 ) 2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VY020624.D | 12/18/2024 | 10:06 |
| VY1218SBL01 | VY1218SBL01 | VY020625.D | 12/18/2024 | 10:52 |
| VY1218SBS01 | VY1218SBS01 | VY020626.D | 12/18/2024 | 11:19 |
| VY1218SBSD01 | VY1218SBSD01 | VY020627.D | 12/18/2024 | 11:42 |
| COMP-2A | P5277-02 | VY020629.D | 12/18/2024 | 12:33 |
| COMP-3A | P5277-03 | VY020630.D | 12/18/2024 | 12:57 |

Raw Data: **VY020644.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020644.D BFB Injection Date: 12/19/2024

Instrument ID: MSVOA_Y BFB Injection Time: 09:13

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 18.1 |
| 75 | 30.0 - 60.0% of mass 95 | 50.7 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.5 |
| 173 | Less than 2.0% of mass 174 | 0.8 ( 1.1 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 78.7 |
| 175 | 5.0 - 9.0% of mass 174 | 6 ( 7.6 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 75.6 ( 96.2 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.2 ( 6.9 ) 2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VY020645.D | 12/19/2024 | 09:43 |
| VY1219SBL01 | VY1219SBL01 | VY020646.D | 12/19/2024 | 11:07 |
| VY1219SBS01 | VY1219SBS01 | VY020647.D | 12/19/2024 | 11:53 |
| COMP-1A | P5277-01 | VY020660.D | 12/19/2024 | 17:09 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020624.D Date Analyzed: 12/18/2024

Instrument ID: MSVOA_Y Time Analyzed: 10:06

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 168319 | 7.71 | 264221 | 8.62 | 226779 | 11.42 |
| UPPER LIMIT | 336638 | 8.213 | 528442 | 9.116 | 453558 | 11.92 |
| LOWER LIMIT | 84159.5 | 7.213 | 132111 | 8.116 | 113390 | 10.92 |
| EPA SAMPLE NO. | | | | | | |
| COMP-2A | 167185 | 7.71 | 323384 | 8.62 | 272093 | 11.41 |
| COMP-3A | 165087 | 7.71 | 286183 | 8.62 | 239715 | 11.41 |
| VY1218SBL01 | 201389 | 7.71 | 355898 | 8.62 | 296016 | 11.42 |
| VY1218SBS01 | 167281 | 7.71 | 257615 | 8.62 | 226665 | 11.41 |
| VY1218SBSD01 | 153098 | 7.71 | 244096 | 8.62 | 214944 | 11.41 |

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020624.D Date Analyzed: 12/18/2024

Instrument ID: MSVOA_Y Time Analyzed: 10:06

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 124266 | 13.347 | | | | |
| UPPER LIMIT | 248532 | 13.847 | | | | |
| LOWER LIMIT | 62133 | 12.847 | | | | |
| EPA SAMPLE NO. | | | | | | |
| COMP-2A | 105985 | 13.35 | | | | |
| COMP-3A | 94502 | 13.35 | | | | |
| VY1218SBL01 | 114022 | 13.35 | | | | |
| VY1218SBS01 | 127451 | 13.35 | | | | |
| VY1218SBSD01 | 120747 | 13.35 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020645.D Date Analyzed: 12/19/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:43

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 206000 | 7.71 | 308825 | 8.62 | 266753 | 11.41 |
| UPPER LIMIT | 412000 | 8.207 | 617650 | 9.116 | 533506 | 11.914 |
| LOWER LIMIT | 103000 | 7.207 | 154413 | 8.116 | 133377 | 10.914 |
| EPA SAMPLE NO. | | | | | | |
| COMP-1A | 108629 | 7.71 | 184812 | 8.62 | 172200 | 11.41 |
| VY1219SBL01 | 204045 | 7.71 | 318952 | 8.62 | 271132 | 11.42 |
| VY1219SBS01 | 184895 | 7.71 | 283194 | 8.62 | 247561 | 11.42 |

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020645.D Date Analyzed: 12/19/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:43

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 146371 | 13.347 | | | | |
| UPPER LIMIT | 292742 | 13.847 | | | | |
| LOWER LIMIT | 73185.5 | 12.847 | | | | |
| EPA SAMPLE NO. | | | | | | |
| COMP-1A | 81207 | 13.35 | | | | |
| VY1219SBL01 | 145317 | 13.35 | | | | |
| VY1219SBS01 | 139236 | 13.35 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.


# SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Kleinfelder | Date Collected: | 12/12/24 |
| Project: | Tanner G. Duckrey Public School | Date Received: | 12/13/24 |
| Client Sample ID: | COMP-1A | SDG No.: | P5277 |
| Lab Sample ID: | P5277-01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 88.5 |
| Sample Wt/Vol: | 4.74 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020660.D | 1 | | 12/19/24 17:09 | VY121924 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.73 | U | 0.73 | 6.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.93 | U | 0.93 | 6.00 | ug/Kg |
| 71-43-2 | Benzene | 0.86 | U | 0.86 | 6.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.89 | U | 0.89 | 6.00 | ug/Kg |
| 108-88-3 | Toluene | 0.80 | U | 0.80 | 6.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.74 | U | 0.74 | 6.00 | ug/Kg |
| 1330-20-7 | Total Xylenes | 2.43 | U | 2.43 | 17.9 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.80 | U | 0.80 | 6.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 48.3 | | 50 - 163 | 97% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 43.5 | | 54 - 147 | 87% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.5 | | 58 - 134 | 99% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.6 | | 29 - 146 | 89% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 109000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 185000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 172000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 81200 | 13.347 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121924\
Data File : VY020660.D
Acq On : 19 Dec 2024 17:09
Operator : SY/MD
Sample : P5277-01
Misc : 4.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-1A

Quant Time: Dec 20 00:57:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

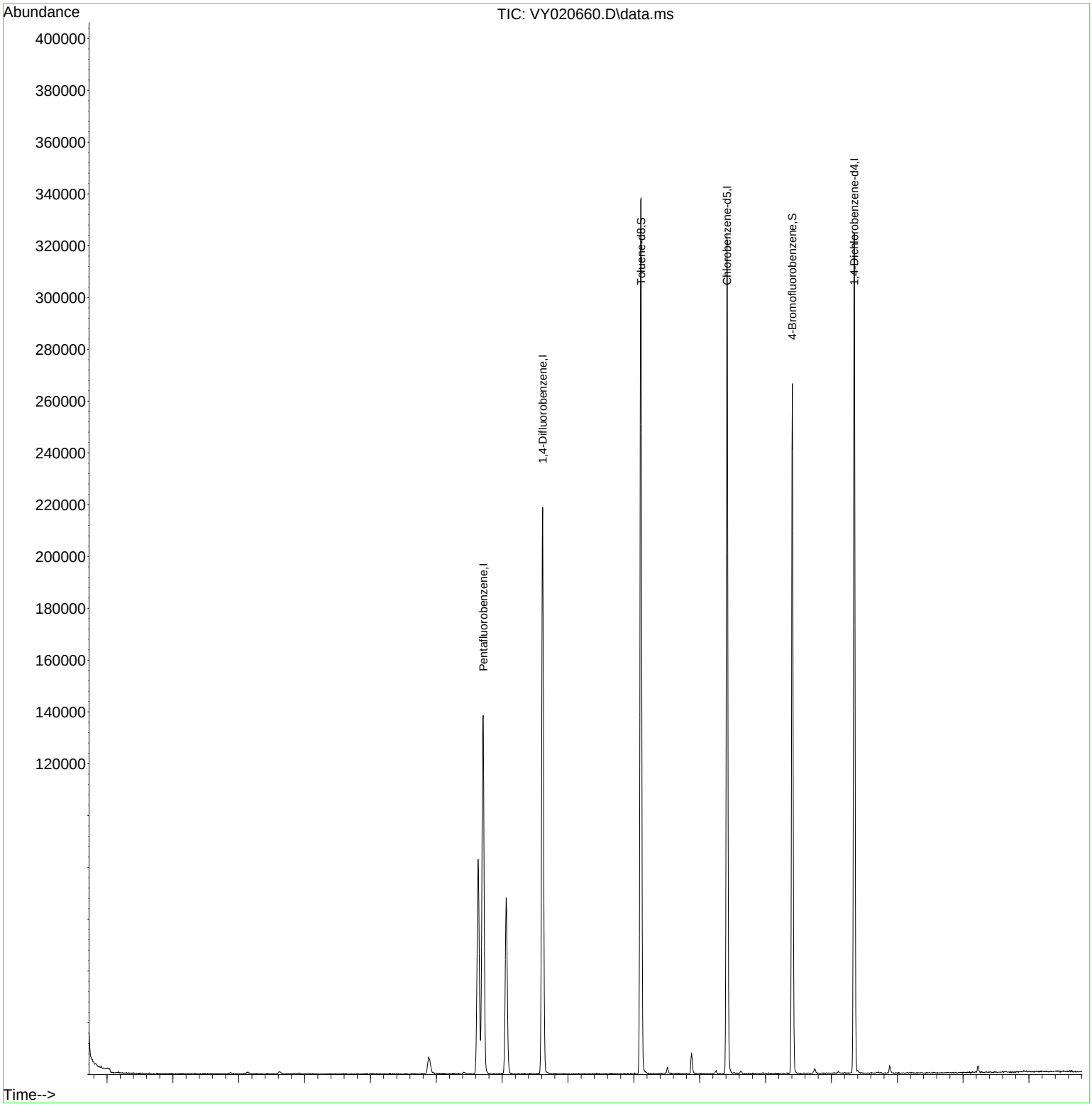
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 108629 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 184812 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 172200 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 81207 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 57441 | 48.281 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 96.560% | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 56678 | 43.515 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 87.020% | | |
| 50) Toluene-d8 | 10.109 | 98 | 225705 | 49.508 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 99.020% | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 79552 | 44.608 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 89.220% | | |
| Target Compounds | | | | | | Qvalue |

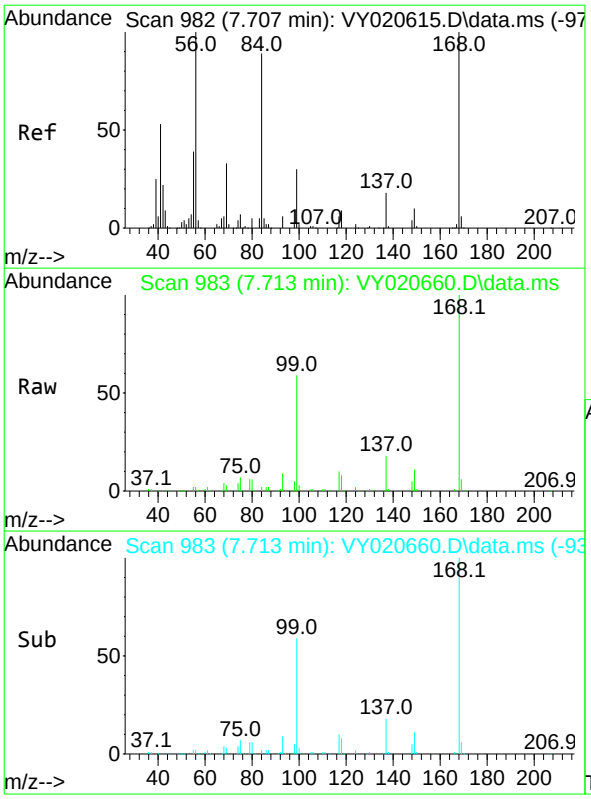
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121924\
Data File : VY020660.D
Acq On : 19 Dec 2024 17:09
Operator : SY/MD
Sample : P5277-01
Misc : 4.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-1A

Quant Time: Dec 20 00:57:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



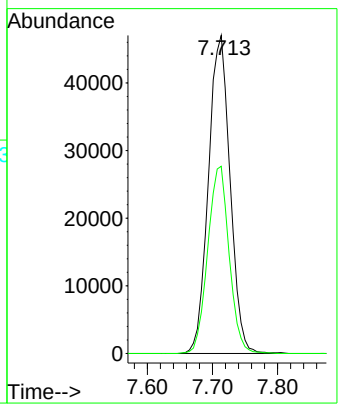


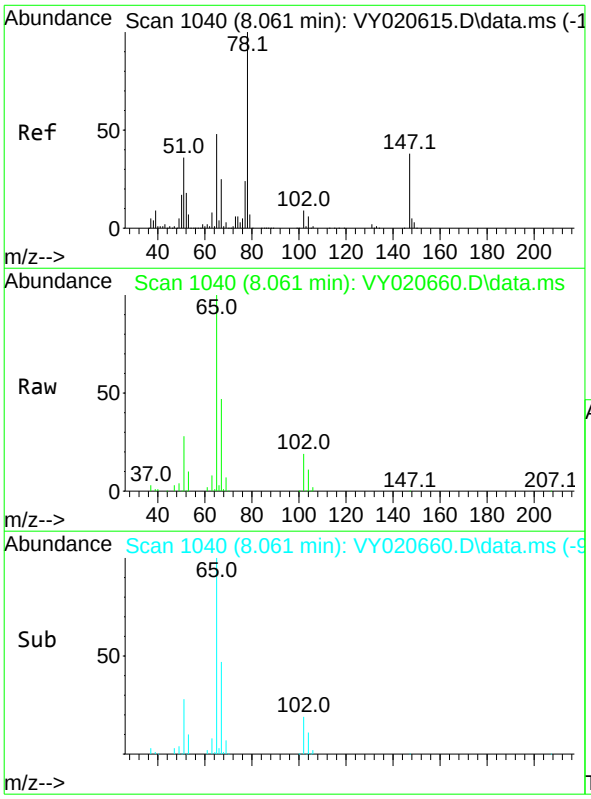

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY020660.D
Acq: 19 Dec 2024 17:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-1A

Tgt Ion:168 Resp: 108629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 58.9 | 47.0 | 70.6 |

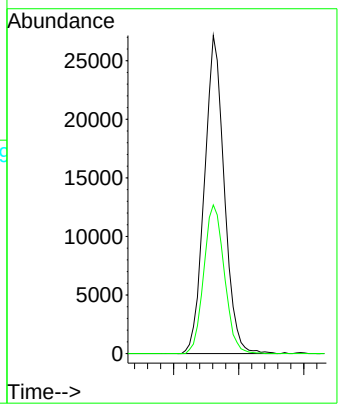


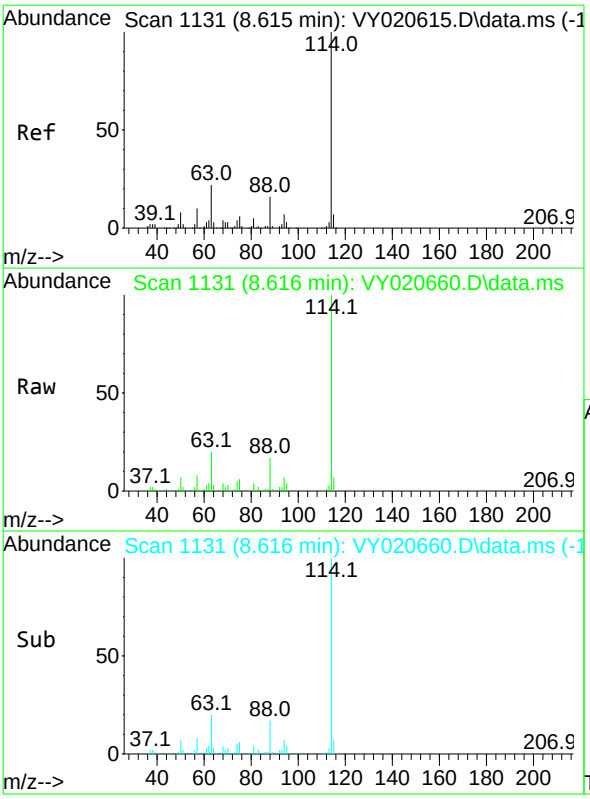




#33
1,2-Dichloroethane-d4
Concen: 48.281 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020660.D
Acq: 19 Dec 2024 17:09

Tgt Ion: 65 Resp: 57441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 48.3 | 0.0 | 108.0 |



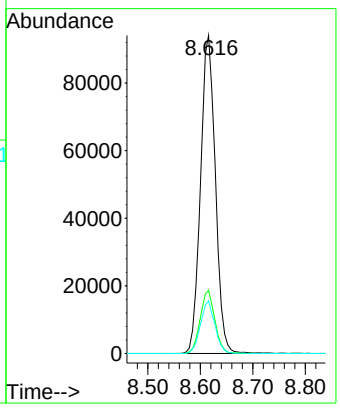


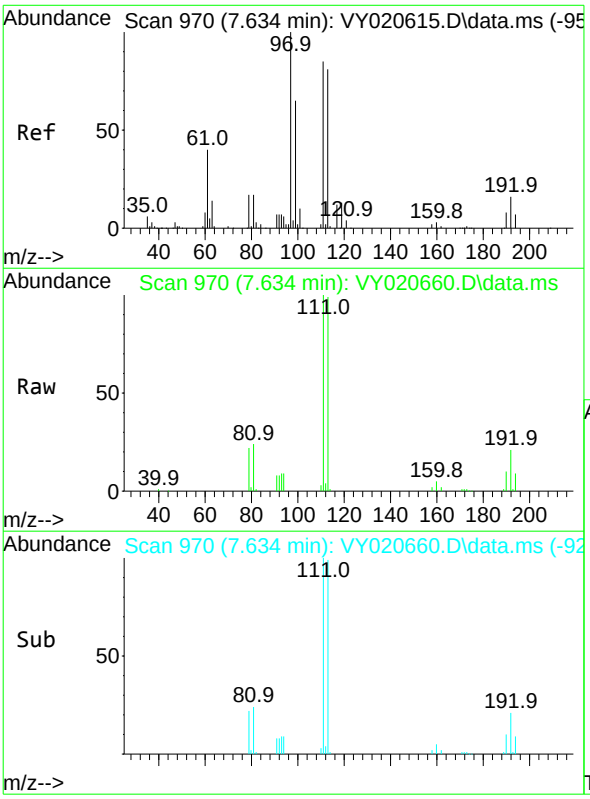

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020660.D
Acq: 19 Dec 2024 17:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-1A

Tgt Ion:114 Resp: 184812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.9 | 0.0 | 44.0 |
| 88 | 16.5 | 0.0 | 32.8 |

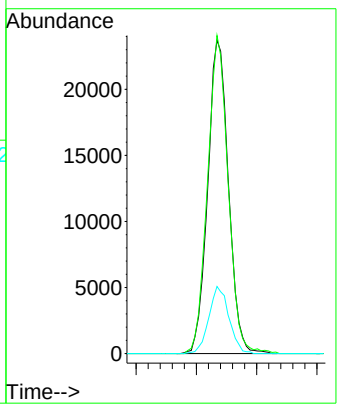


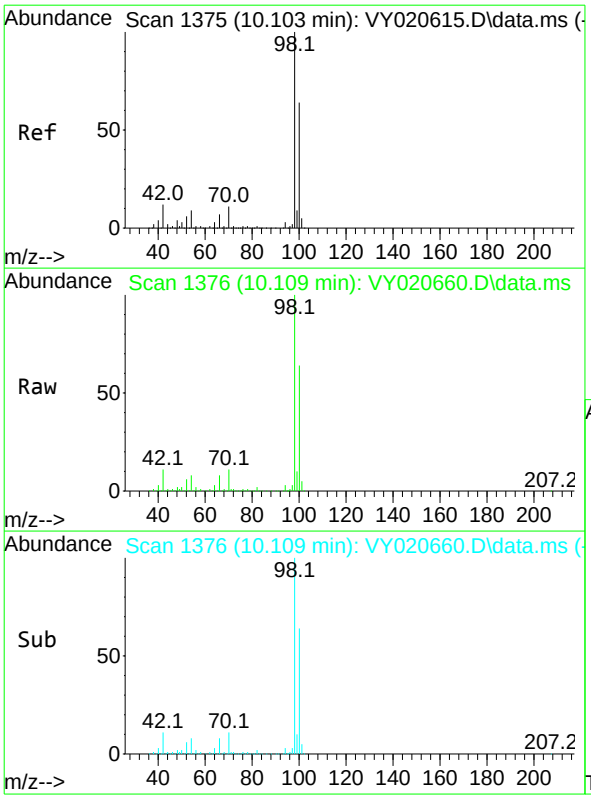




#35
Dibromofluoromethane
Concen: 43.515 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020660.D
Acq: 19 Dec 2024 17:09

Tgt Ion:113 Resp: 56678

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.0 | 82.9 | 124.3 |
| 192 | 20.8 | 15.7 | 23.5 |



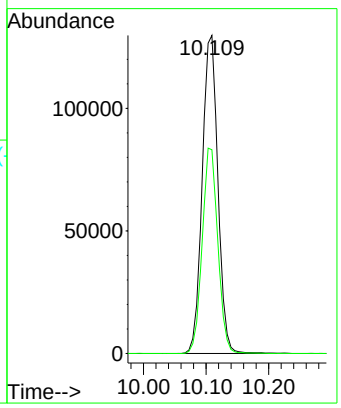


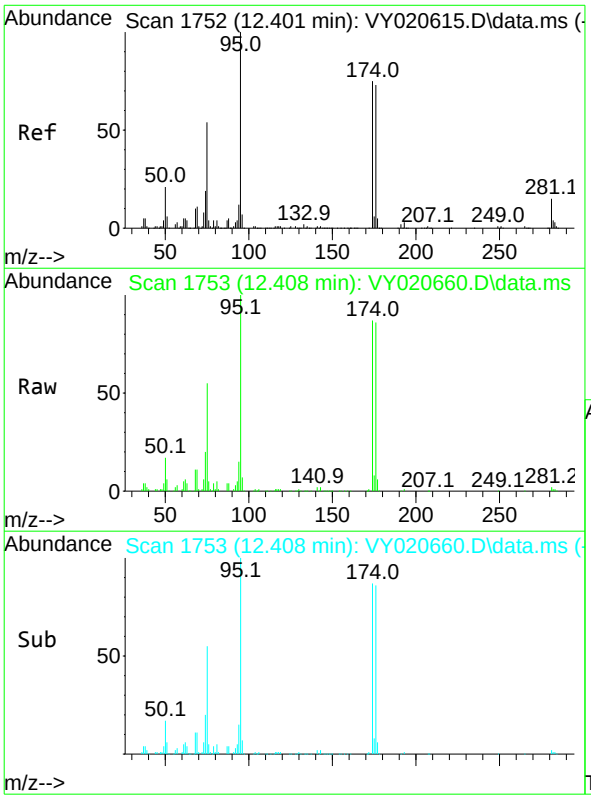

#50
Toluene-d8
Concen: 49.508 ug/l
RT: 10.109 min Scan# 13
Delta R.T. 0.006 min
Lab File: VY020660.D
Acq: 19 Dec 2024 17:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-1A

Tgt Ion: 98 Resp: 225705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.4 | 52.1 | 78.1 |

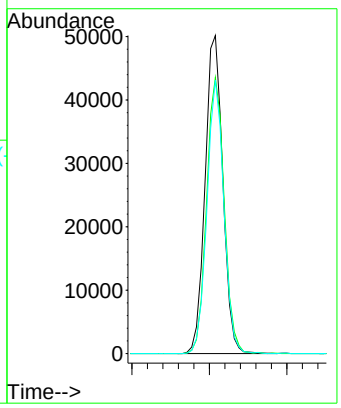


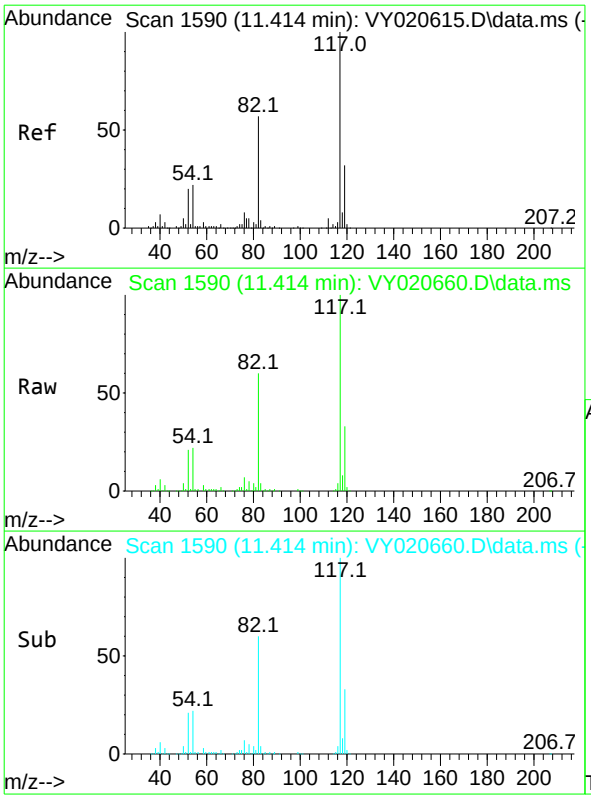




#62
4-Bromofluorobenzene
Concen: 44.608 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020660.D
Acq: 19 Dec 2024 17:09

Tgt Ion: 95 Resp: 79552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.6 | 0.0 | 161.8 |
| 176 | 82.2 | 0.0 | 156.6 |



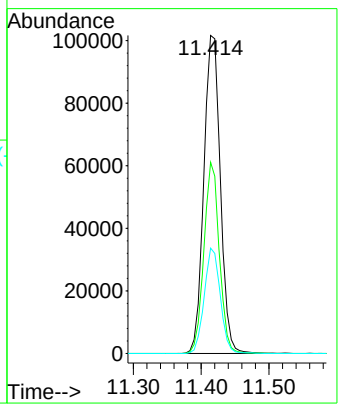


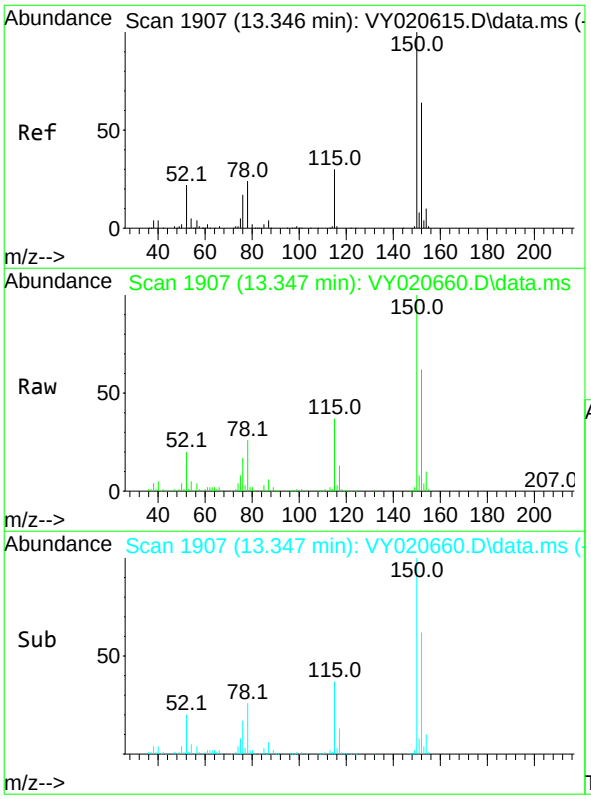

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020660.D
Acq: 19 Dec 2024 17:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-1A

Tgt Ion:117 Resp: 172200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 60.1 | 45.8 | 68.6 |
| 119 | 33.1 | 25.3 | 37.9 |

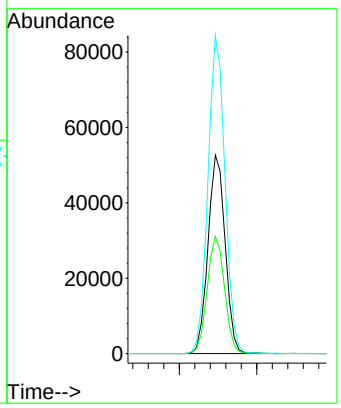



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020660.D
Acq: 19 Dec 2024 17:09

Tgt Ion:152 Resp: 81207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.6 | 30.2 | 90.6 |
| 150 | 159.1 | 0.0 | 355.4 |



Raw Data: **VY020629.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Kleinfelder | Date Collected: | 12/12/24 |
| Project: | Tanner G. Duckrey Public School | Date Received: | 12/13/24 |
| Client Sample ID: | COMP-2A | SDG No.: | P5277 |
| Lab Sample ID: | P5277-02 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 78.9 |
| Sample Wt/Vol: | 3.63 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020629.D | 1 | | 12/18/24 12:33 | VY121824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 156-59-2 | cis-1,2-Dichloroethene | 1.10 | U | 1.10 | 8.70 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 1.40 | U | 1.40 | 8.70 | ug/Kg |
| 71-43-2 | Benzene | 1.30 | U | 1.30 | 8.70 | ug/Kg |
| 79-01-6 | Trichloroethene | 1.30 | U | 1.30 | 8.70 | ug/Kg |
| 108-88-3 | Toluene | 1.20 | U | 1.20 | 8.70 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 1.10 | U | 1.10 | 8.70 | ug/Kg |
| 1330-20-7 | Total Xylenes | 3.60 | U | 3.60 | 26.2 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 1.20 | U | 1.20 | 8.70 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.8 | | 50 - 163 | 108% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 39.5 | | 54 - 147 | 79% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.4 | | 58 - 134 | 97% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 36.9 | | 29 - 146 | 74% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 167000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 323000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 272000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 106000 | 13.347 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020629.D
Acq On : 18 Dec 2024 12:33
Operator : SY/MD
Sample : P5277-02
Misc : 3.63g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-2A

Quant Time: Dec 18 14:21:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

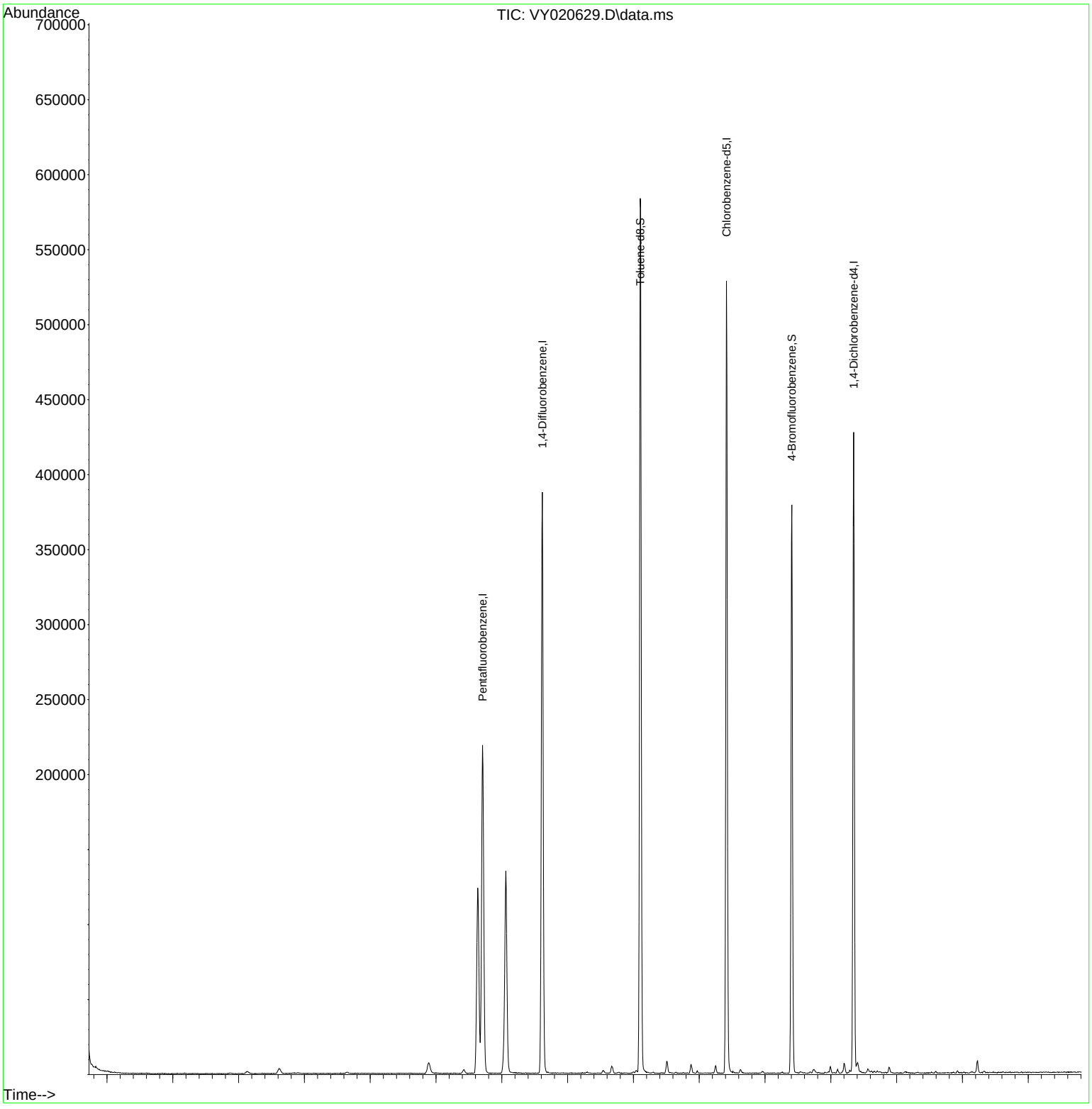
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 167185 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 323384 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 272093 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 105985 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 98540 | 53.817 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 107.640% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 90132 | 39.547 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 79.100% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 386399 | 48.437 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 96.880% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 115220 | 36.924 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 73.840% | | | |
| Target Compounds | | | | | | Qvalue |
| 20) Methylene Chloride | 4.629 | 84 | 2616 | 1.149 | ug/l # | 80 |

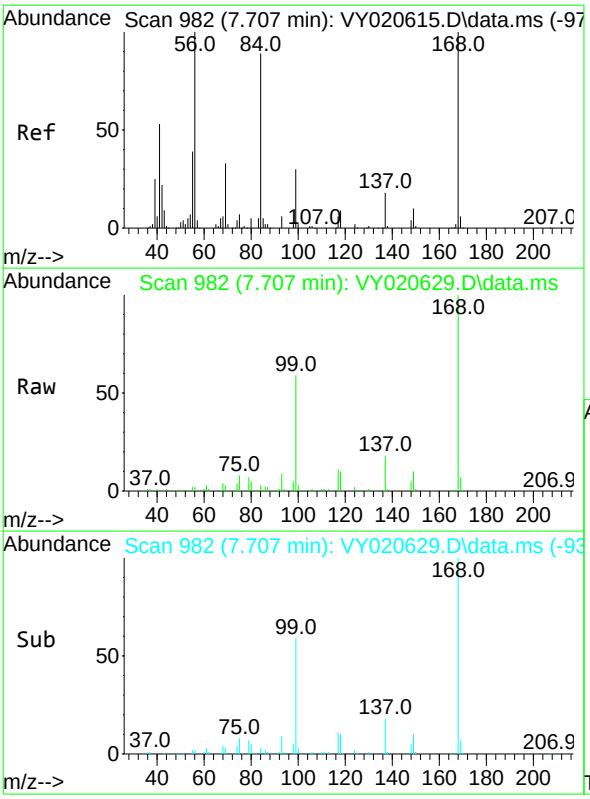
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020629.D
Acq On : 18 Dec 2024 12:33
Operator : SY/MD
Sample : P5277-02
Misc : 3.63g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-2A

Quant Time: Dec 18 14:21:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



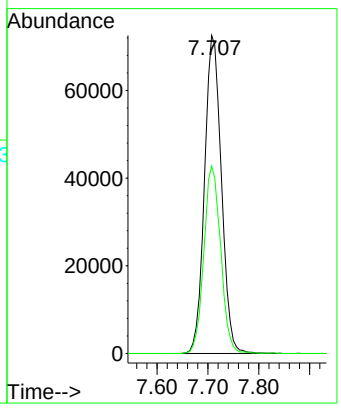


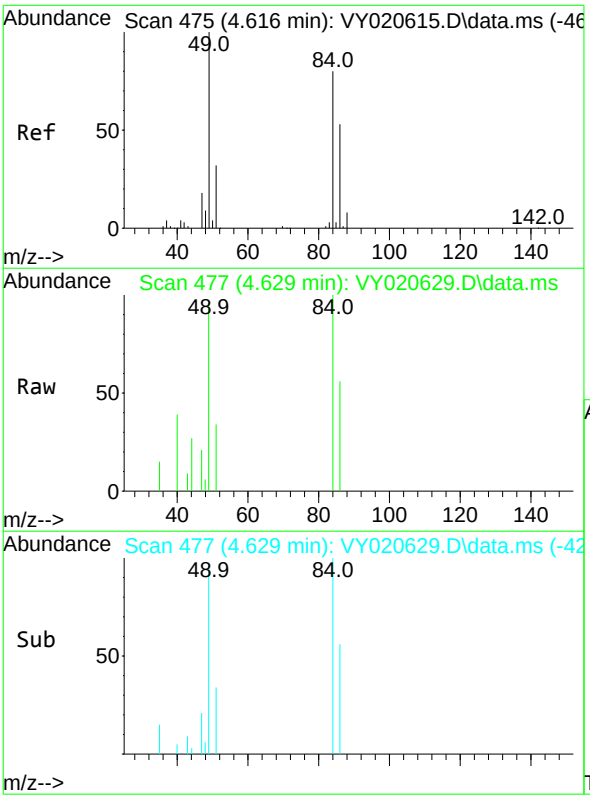

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020629.D
Acq: 18 Dec 2024 12:33

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-2A

Tgt Ion:168 Resp: 167185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 58.9 | 47.0 | 70.6 |

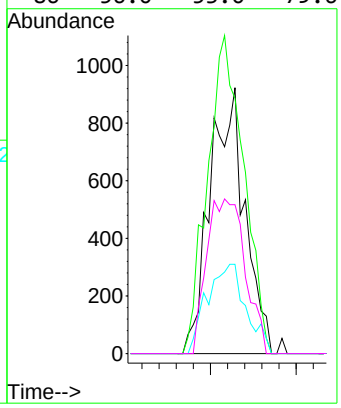


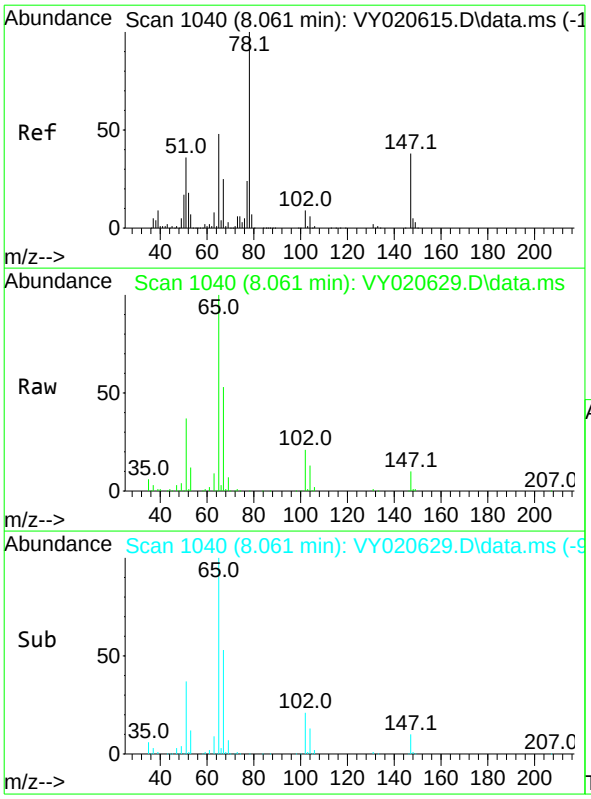




#20
Methylene Chloride
Concen: 1.149 ug/l
RT: 4.629 min Scan# 477
Delta R.T. 0.013 min
Lab File: VY020629.D
Acq: 18 Dec 2024 12:33

Tgt Ion: 84 Resp: 2616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 96.0 | 100.7 | 151.1# |
| 51 | 33.6 | 32.2 | 48.2 |
| 86 | 56.0 | 53.0 | 79.6 |



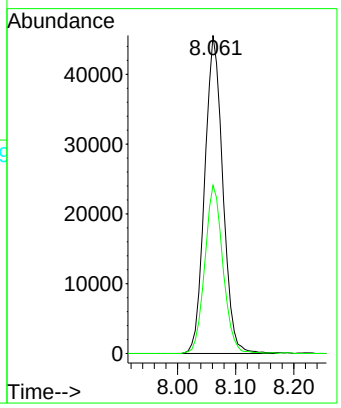


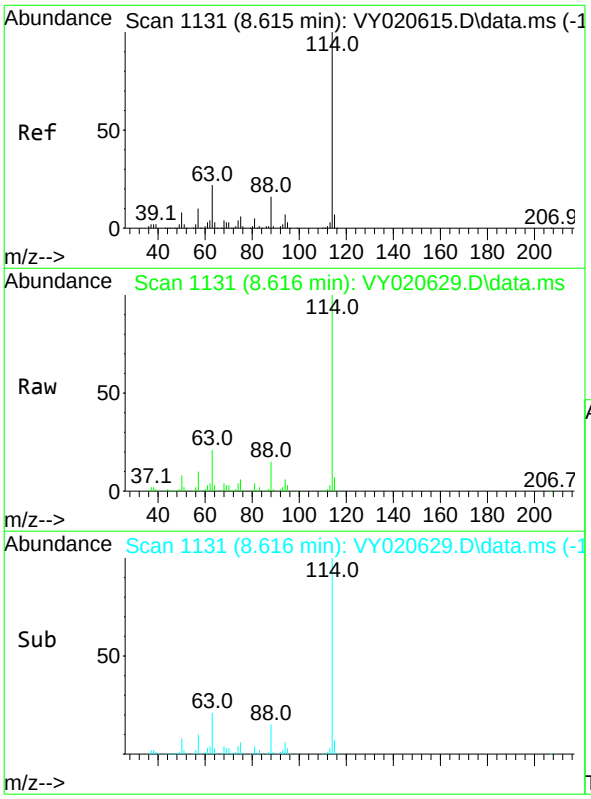

#33
1,2-Dichloroethane-d4
Concen: 53.817 ug/l
RT: 8.061 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020629.D
Acq: 18 Dec 2024 12:33

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-2A

Tgt Ion: 65 Resp: 98540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.1 | 0.0 | 108.0 |

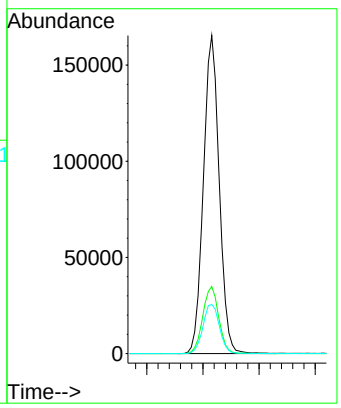


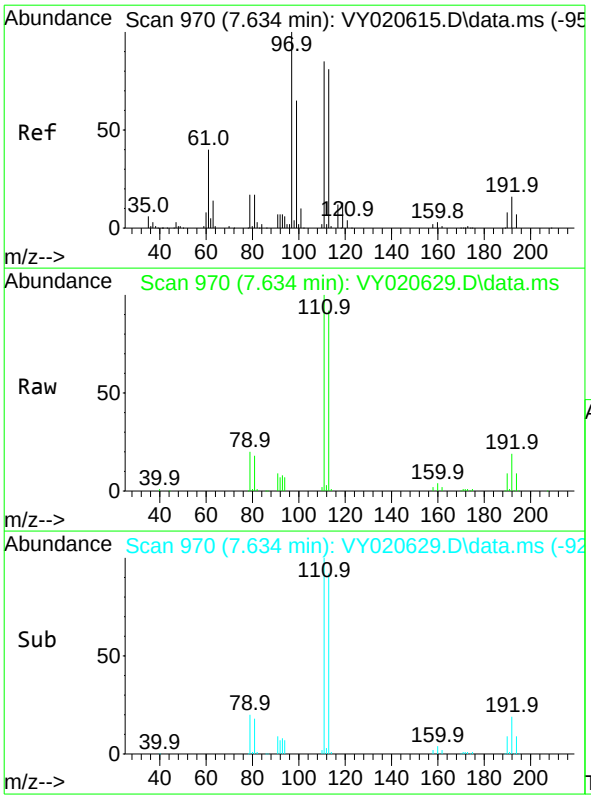




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020629.D
Acq: 18 Dec 2024 12:33

Tgt Ion:114 Resp: 323384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.1 | 0.0 | 44.0 |
| 88 | 15.5 | 0.0 | 32.8 |



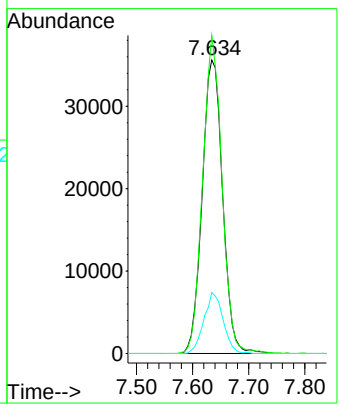


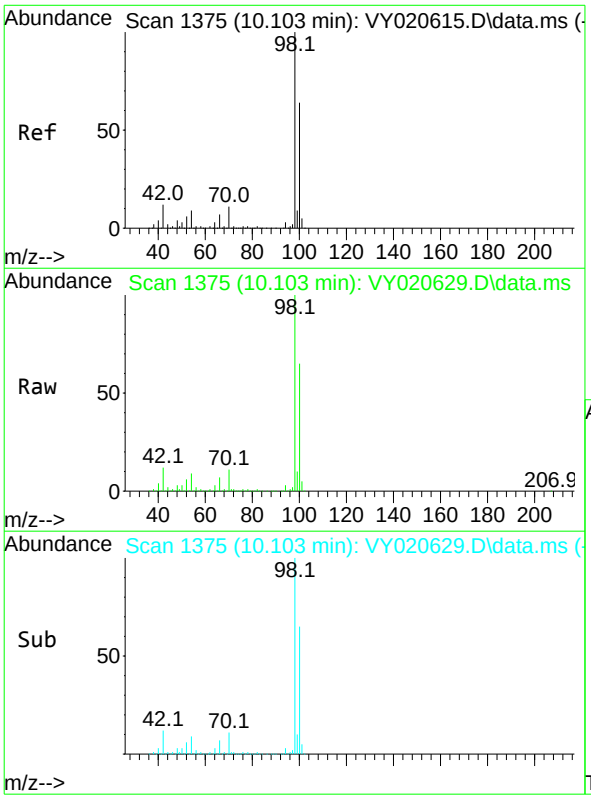

#35
Dibromofluoromethane
Concen: 39.547 ug/l
RT: 7.634 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020629.D
Acq: 18 Dec 2024 12:33

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-2A

Tgt Ion:113 Resp: 90132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.3 | 82.9 | 124.3 |
| 192 | 19.5 | 15.7 | 23.5 |

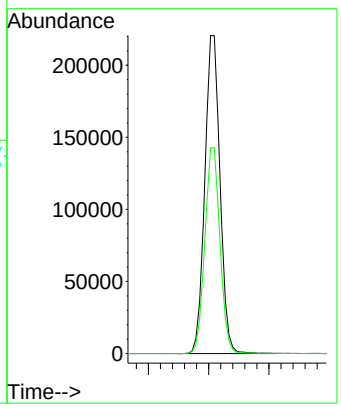


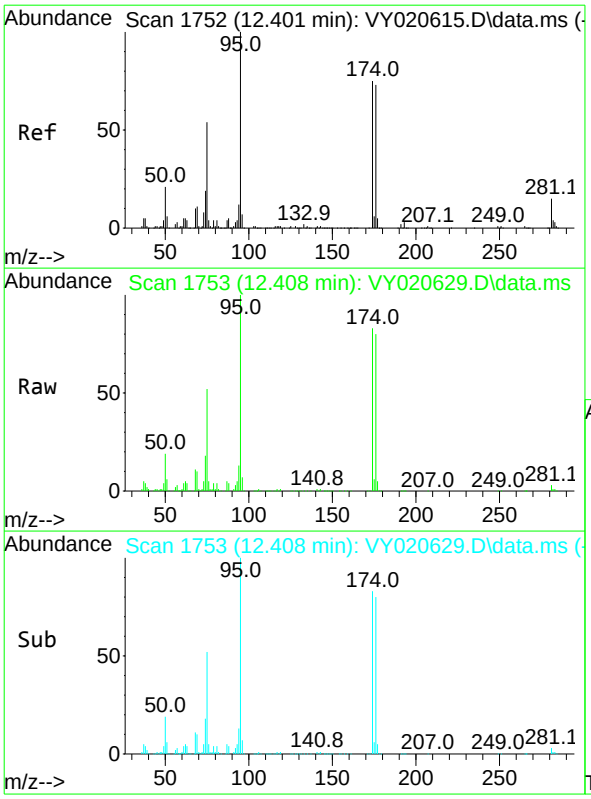




#50
Toluene-d8
Concen: 48.437 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY020629.D
Acq: 18 Dec 2024 12:33

Tgt Ion: 98 Resp: 386399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.7 | 52.1 | 78.1 |



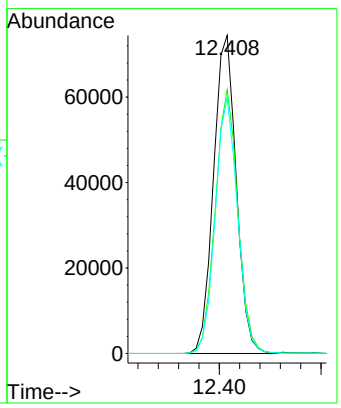


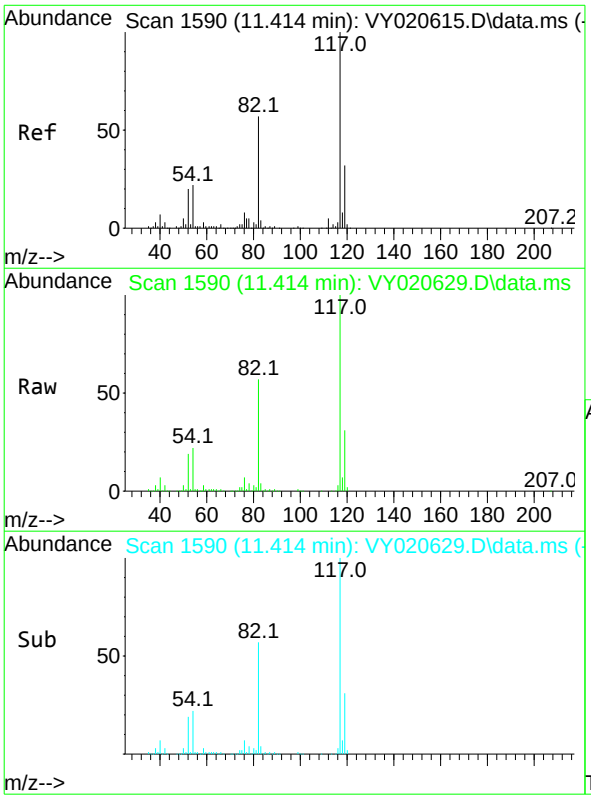

#62
4-Bromofluorobenzene
Concen: 36.924 ug/l
RT: 12.408 min Scan# 17
Delta R.T. 0.006 min
Lab File: VY020629.D
Acq: 18 Dec 2024 12:33

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-2A

Tgt Ion: 95 Resp: 115220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 83.0 | 0.0 | 161.8 |
| 176 | 79.0 | 0.0 | 156.6 |

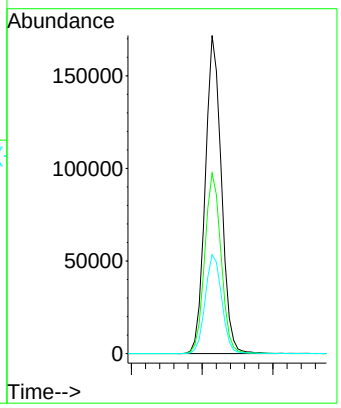


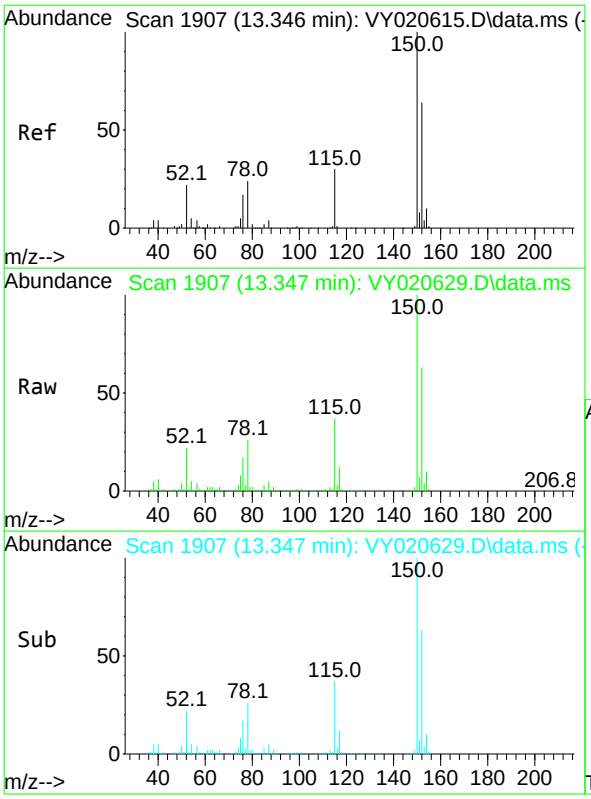




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY020629.D
Acq: 18 Dec 2024 12:33

Tgt Ion:117 Resp: 272093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.7 | 45.8 | 68.6 |
| 119 | 31.1 | 25.3 | 37.9 |



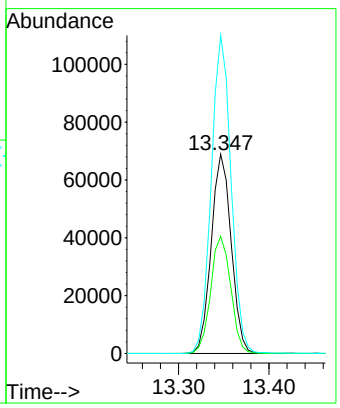



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020629.D
Acq: 18 Dec 2024 12:33

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-2A

Tgt Ion:152 Resp: 105985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.7 | 30.2 | 90.6 |
| 150 | 157.9 | 0.0 | 355.4 |



Raw Data: **VY020630.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Kleinfelder | Date Collected: | 12/12/24 |
| Project: | Tanner G. Duckrey Public School | Date Received: | 12/13/24 |
| Client Sample ID: | COMP-3A | SDG No.: | P5277 |
| Lab Sample ID: | P5277-03 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 89.9 |
| Sample Wt/Vol: | 3.92 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020630.D | 1 | | 12/18/24 12:57 | VY121824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.87 | U | 0.87 | 7.10 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 1.10 | U | 1.10 | 7.10 | ug/Kg |
| 71-43-2 | Benzene | 1.00 | U | 1.00 | 7.10 | ug/Kg |
| 79-01-6 | Trichloroethene | 1.10 | U | 1.10 | 7.10 | ug/Kg |
| 108-88-3 | Toluene | 0.95 | U | 0.95 | 7.10 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.88 | U | 0.88 | 7.10 | ug/Kg |
| 1330-20-7 | Total Xylenes | 2.89 | U | 2.89 | 21.3 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.95 | U | 0.95 | 7.10 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.6 | | 50 - 163 | 107% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 45.0 | | 54 - 147 | 90% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.7 | | 58 - 134 | 97% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 37.5 | | 29 - 146 | 75% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 165000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 286000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 240000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 94500 | 13.346 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VY020630.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020630.D
Acq On : 18 Dec 2024 12:57
Operator : SY/MD
Sample : P5277-03
Misc : 3.92g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-3A

Quant Time: Dec 18 14:22:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

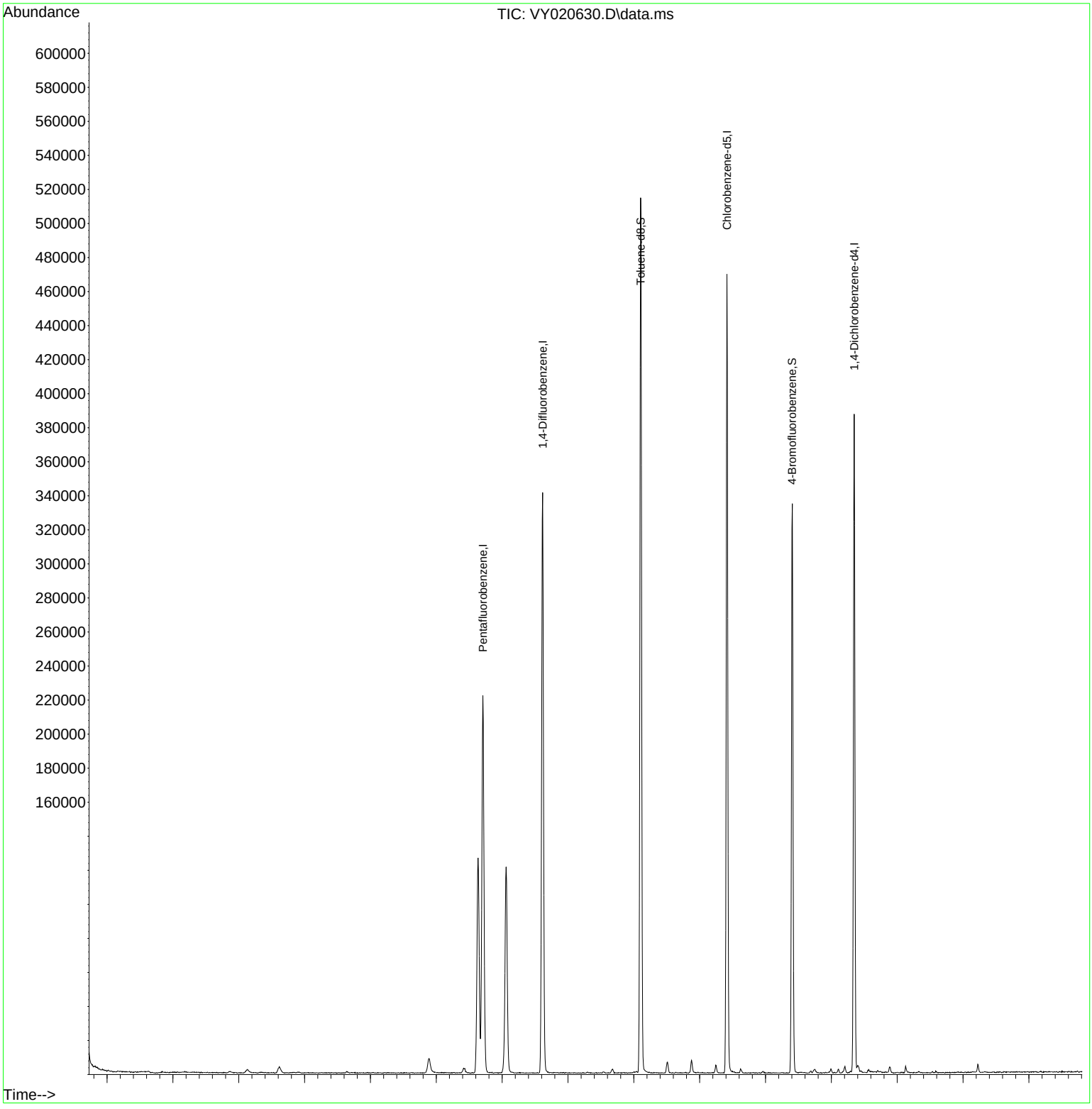
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 165087 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 286183 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 239715 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 94502 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 96963 | 53.628 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 107.260% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 90706 | 44.972 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 89.940% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 343494 | 48.656 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 97.320% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 103676 | 37.543 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 75.080% | | | |
| Target Compounds | | | | | | Qvalue |
| 20) Methylene Chloride | 4.616 | 84 | 2655 | 1.181 | ug/l # | 80 |

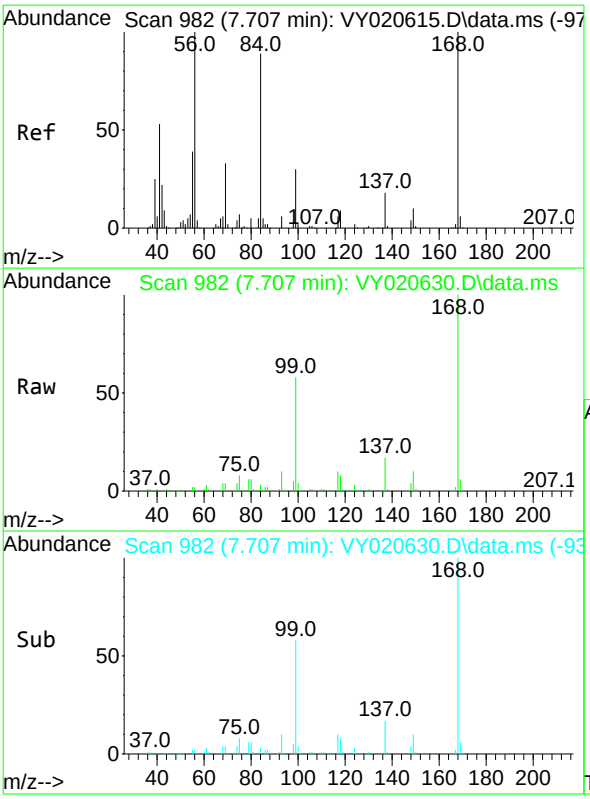
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020630.D
Acq On : 18 Dec 2024 12:57
Operator : SY/MD
Sample : P5277-03
Misc : 3.92g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-3A

Quant Time: Dec 18 14:22:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



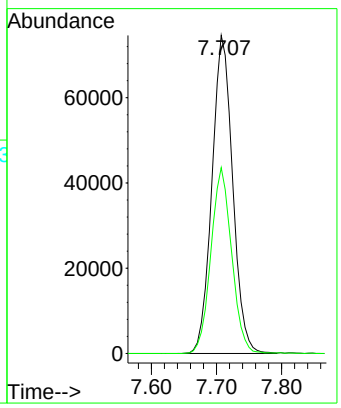


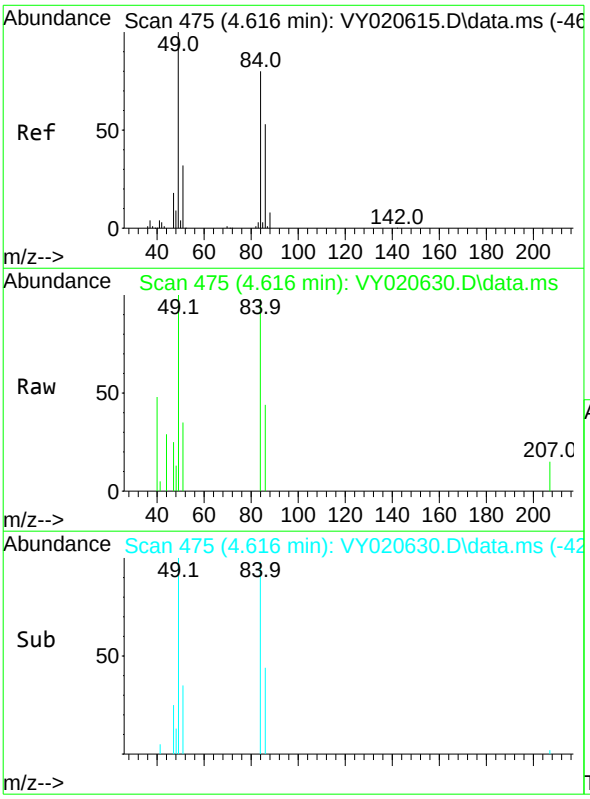

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020630.D
Acq: 18 Dec 2024 12:57

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-3A

Tgt Ion:168 Resp: 165087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 58.4 | 47.0 | 70.6 |

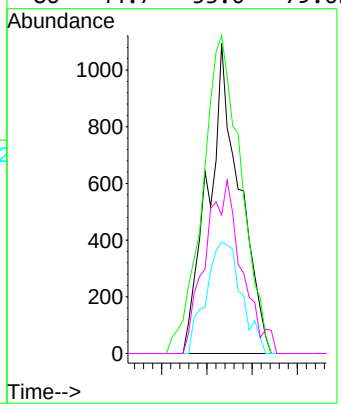


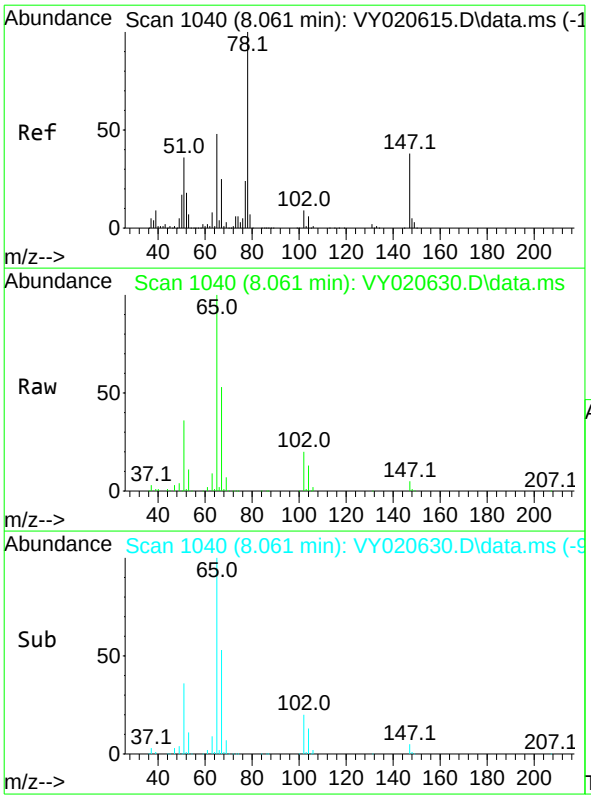




#20
Methylene Chloride
Concen: 1.181 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020630.D
Acq: 18 Dec 2024 12:57

Tgt Ion: 84 Resp: 2655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 102.6 | 100.7 | 151.1 |
| 51 | 36.0 | 32.2 | 48.2 |
| 86 | 44.7 | 53.0 | 79.6# |



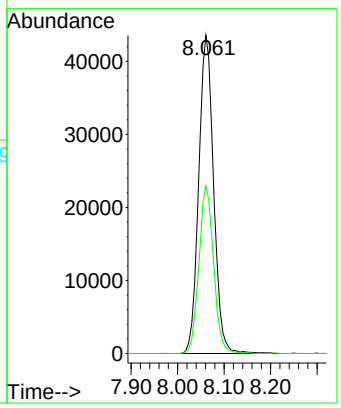


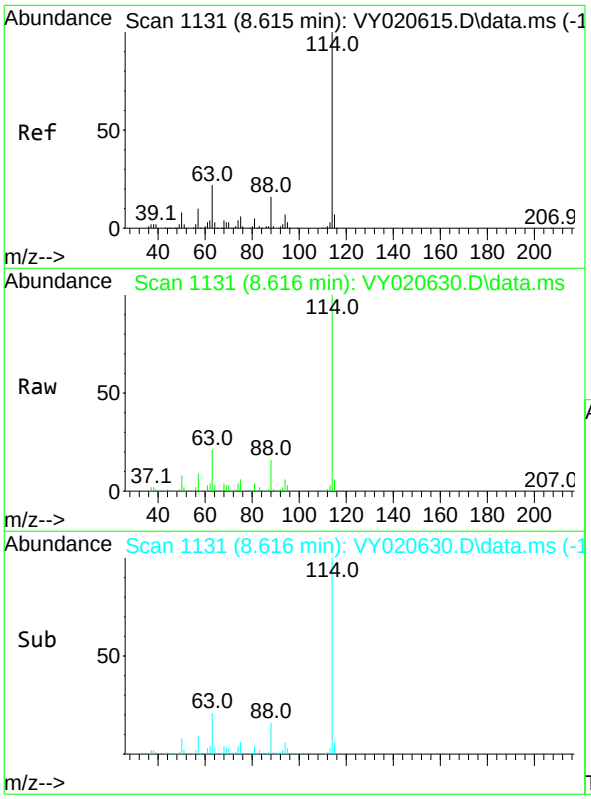

#33
1,2-Dichloroethane-d4
Concen: 53.628 ug/l
RT: 8.061 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020630.D
Acq: 18 Dec 2024 12:57

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-3A

Tgt Ion: 65 Resp: 96963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.9 | 0.0 | 108.0 |

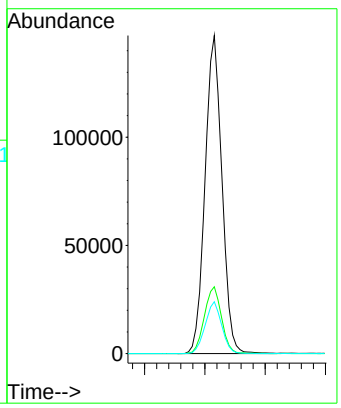


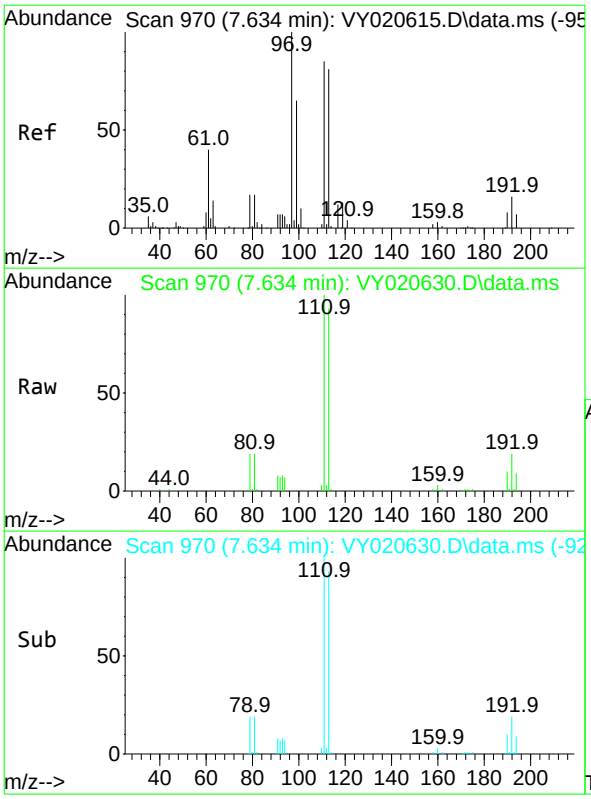




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020630.D
Acq: 18 Dec 2024 12:57

Tgt Ion:114 Resp: 286183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.0 | 0.0 | 44.0 |
| 88 | 16.3 | 0.0 | 32.8 |



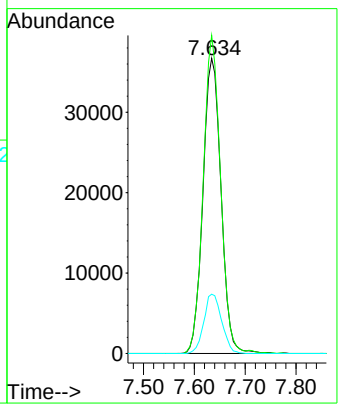


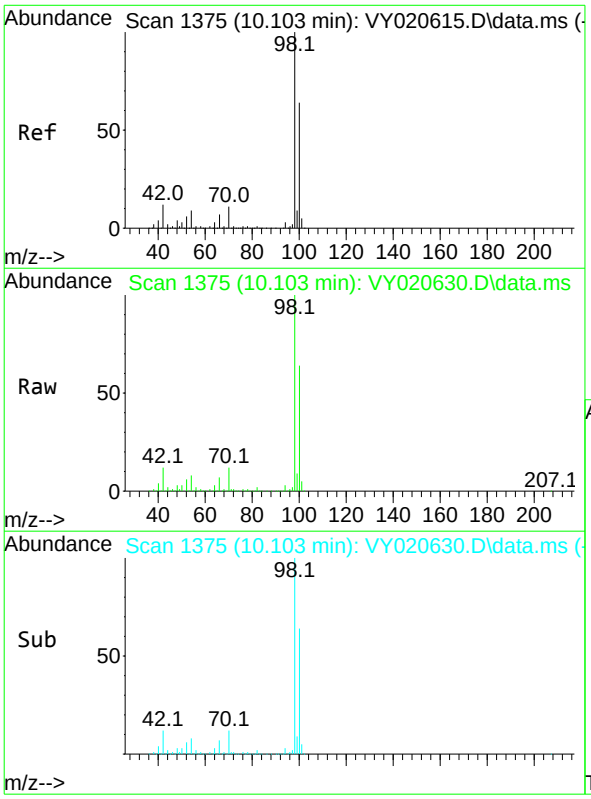

#35
Dibromofluoromethane
Concen: 44.972 ug/l
RT: 7.634 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020630.D
Acq: 18 Dec 2024 12:57

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-3A

Tgt Ion:113 Resp: 90706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.7 | 82.9 | 124.3 |
| 192 | 19.8 | 15.7 | 23.5 |

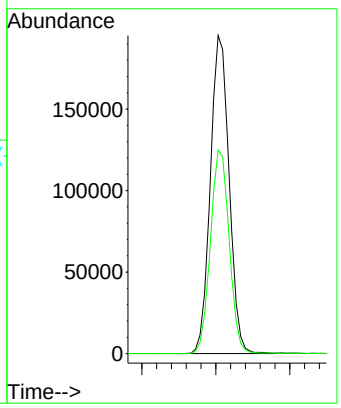


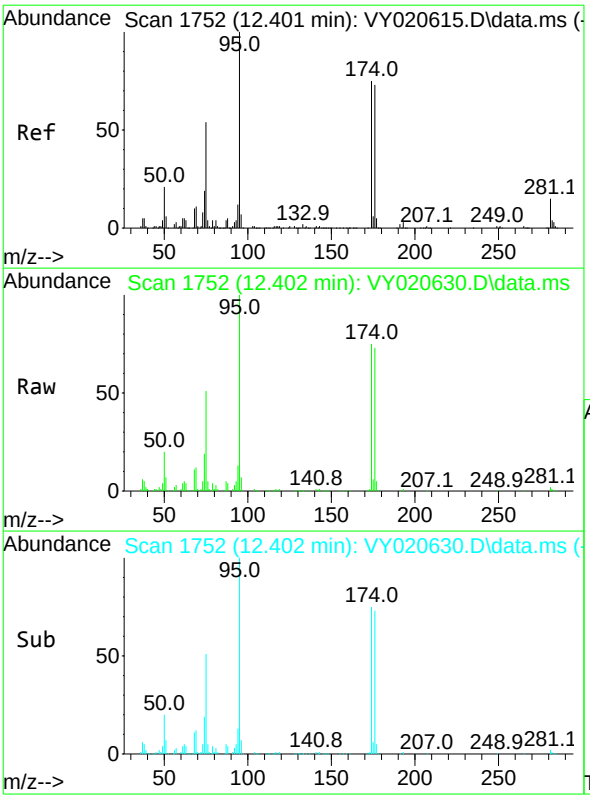




#50
Toluene-d8
Concen: 48.656 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY020630.D
Acq: 18 Dec 2024 12:57

Tgt Ion: 98 Resp: 343494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.1 | 52.1 | 78.1 |



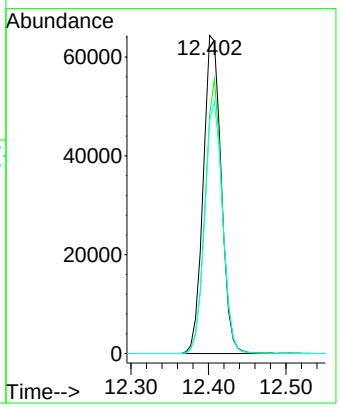


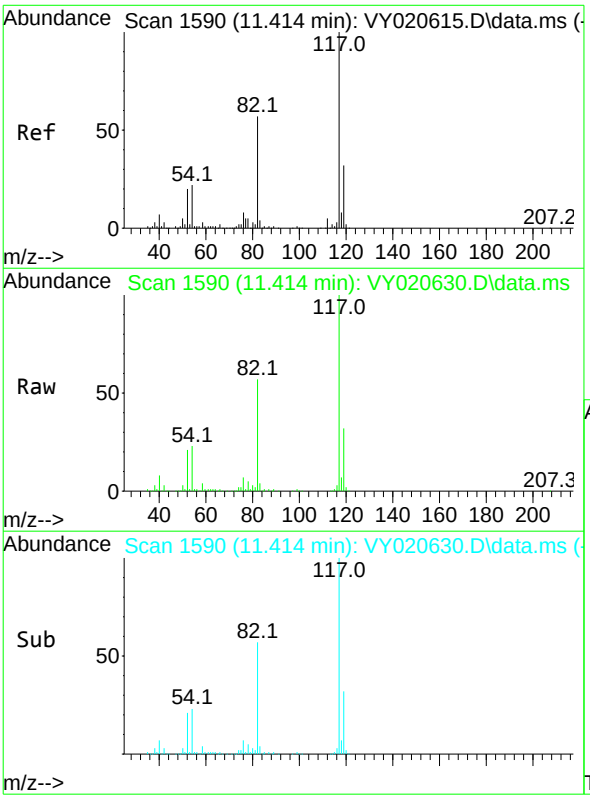

#62
4-Bromofluorobenzene
Concen: 37.543 ug/l
RT: 12.402 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020630.D
Acq: 18 Dec 2024 12:57

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-3A

Tgt Ion: 95 Resp: 103676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 82.1 | 0.0 | 161.8 |
| 176 | 79.0 | 0.0 | 156.6 |

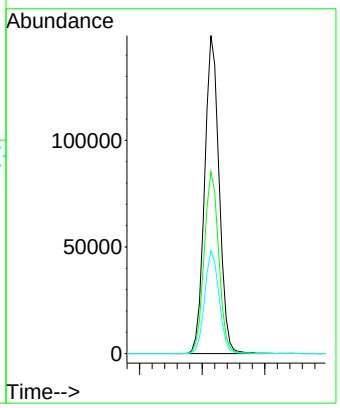


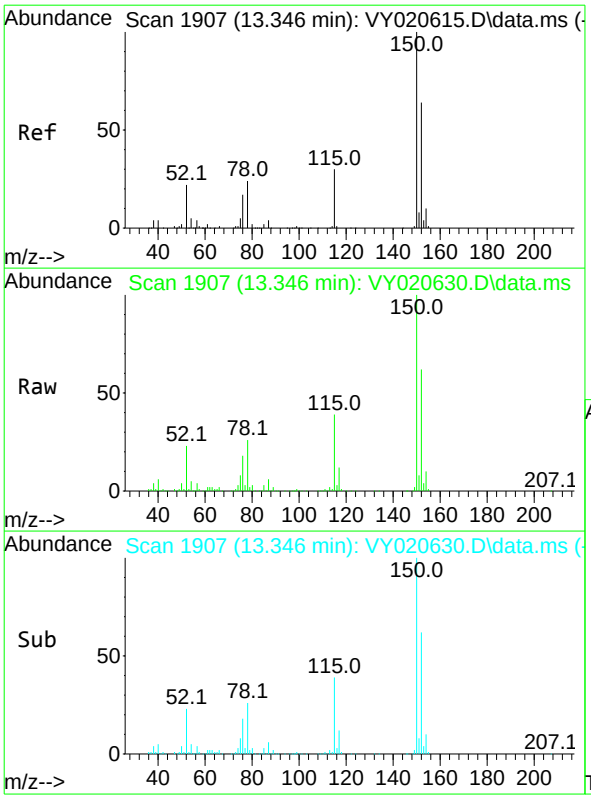




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY020630.D
Acq: 18 Dec 2024 12:57

Tgt Ion:117 Resp: 239715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.2 | 45.8 | 68.6 |
| 119 | 32.3 | 25.3 | 37.9 |



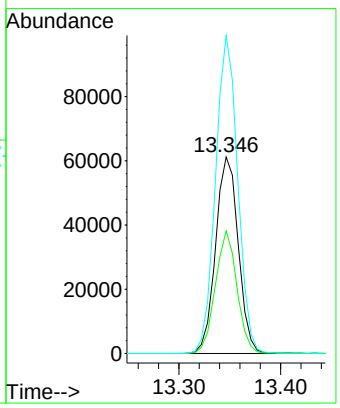



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020630.D
Acq: 18 Dec 2024 12:57

**Instrument :**
MSVOA_Y
**ClientSampleId :**
COMP-3A

Tgt Ion:152 Resp: 94502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.6 | 30.2 | 90.6 |
| 150 | 158.7 | 0.0 | 355.4 |



# CALIBRATION SUMMARY

Raw Data

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG No.: P5277

Instrument ID: MSVOA_Y Calibration Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Calibration Time(s): 10:01 14:51

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF010 = VY020613.D RRF020 = VY020614.D RRF050 = VY020615.D
RRF100 = VY020616.D RRF150 = VY020617.D RRF005 = VY020619.D

| COMPOUND | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | RRF005 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 0.875 | 0.815 | 0.817 | 0.797 | 0.724 | 0.827 | 0.809 | 6.1 |
| 1,1,1-Trichloroethane | 1.298 | 1.215 | 1.198 | 1.183 | 1.086 | 1.219 | 1.200 | 5.7 |
| Benzene | 2.055 | 1.900 | 1.859 | 1.847 | 1.713 | 1.927 | 1.883 | 5.9 |
| Trichloroethene | 0.501 | 0.462 | 0.458 | 0.453 | 0.422 | 0.481 | 0.463 | 5.8 |
| Toluene | 1.247 | 1.185 | 1.167 | 1.165 | 1.082 | 1.176 | 1.170 | 4.5 |
| Ethyl Benzene | 2.747 | 2.583 | 2.556 | 2.543 | 2.414 | 2.633 | 2.579 | 4.2 |
| m/p-Xylenes | 1.031 | 0.951 | 0.953 | 0.942 | 0.892 | 0.984 | 0.959 | 4.8 |
| o-Xylene | 0.956 | 0.892 | 0.898 | 0.887 | 0.842 | 0.894 | 0.895 | 4.1 |
| Isopropylbenzene | 4.636 | 4.451 | 4.356 | 4.284 | 4.051 | 4.401 | 4.363 | 4.4 |
| 1,2-Dichloroethane-d4 | 0.619 | 0.487 | 0.569 | 0.507 | 0.467 | 0.636 | 0.548 | 13 |
| Dibromofluoromethane | 0.385 | 0.328 | 0.360 | 0.325 | 0.313 | 0.404 | 0.352 | 10.4 |
| Toluene-d8 | 1.314 | 1.127 | 1.271 | 1.143 | 1.100 | 1.445 | 1.233 | 10.9 |
| 4-Bromofluorobenzene | 0.538 | 0.448 | 0.480 | 0.433 | 0.412 | 0.585 | 0.482 | 13.9 |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

# Response Factor Report GCVOA_Y

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y121724S.M
Title : SW846 8260
Last Update : Wed Dec 18 05:27:13 2024
Response Via : Initial Calibration

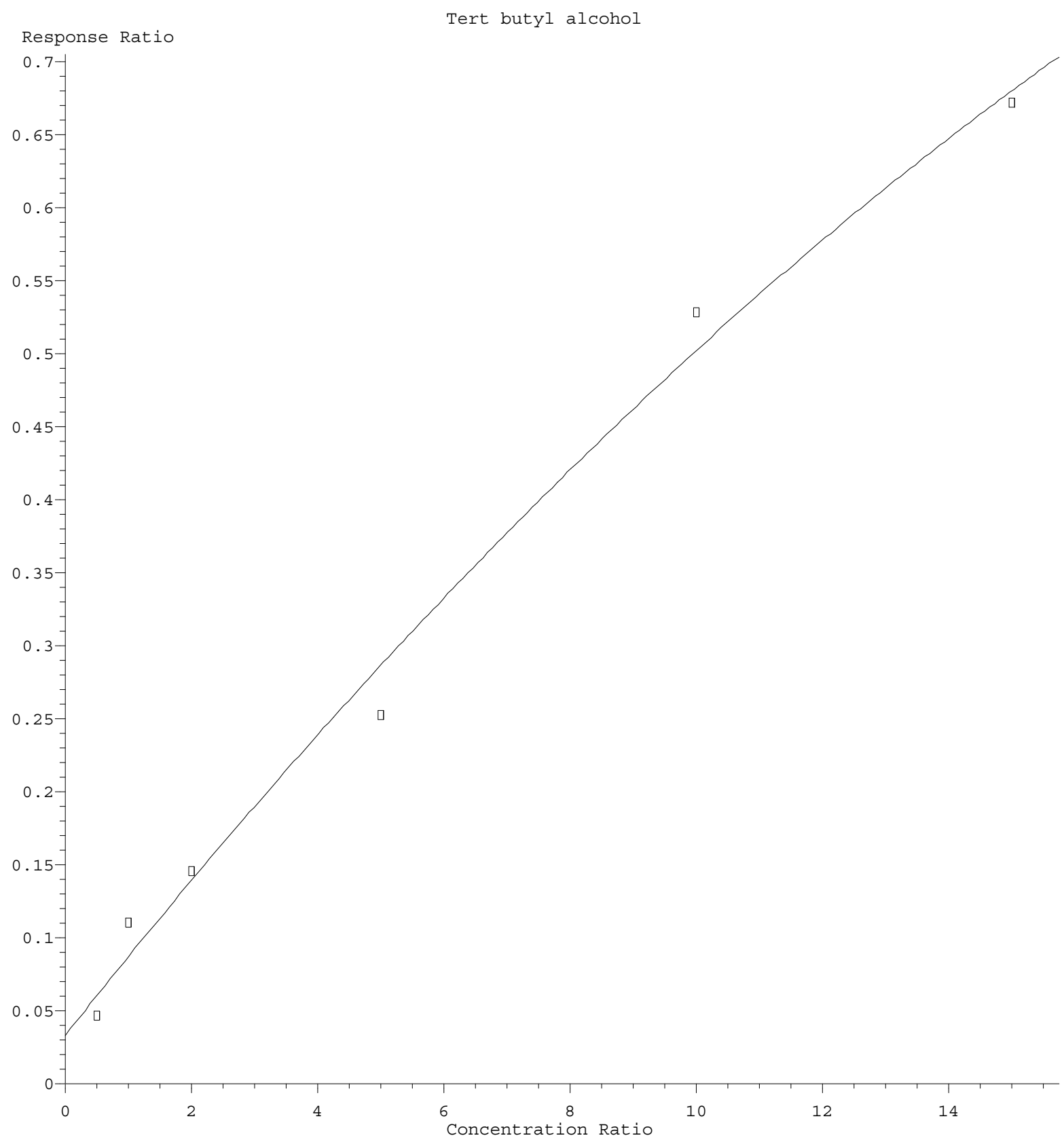
Calibration Files
5 =VY020619.D 10 =VY020613.D 20 =VY020614.D 50 =VY020615.D 100 =VY020616.D 150 =VY020617.D

| | | Compound | 5 | 10 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | |
| 2) | T | Dichlorodifluo... | 0.665 | 0.678 | 0.633 | 0.617 | 0.601 | 0.552 | 0.625 | 7.31 |
| 3) | P | Chloromethane | 0.555 | 0.490 | 0.506 | 0.428 | 0.426 | 0.372 | 0.463 | 14.32 |
| 4) | C | Vinyl Chloride | 0.487 | 0.443 | 0.469 | 0.371 | 0.440 | 0.374 | 0.431 | 11.27# |
| 5) | T | Bromomethane | 0.327 | 0.291 | 0.279 | 0.229 | 0.282 | 0.254 | 0.277 | 12.08 |
| 6) | T | Chloroethane | 0.302 | 0.273 | 0.287 | 0.212 | 0.272 | 0.251 | 0.266 | 11.75 |
| 7) | T | Trichlorofluor... | 0.993 | 0.981 | 0.954 | 0.791 | 0.878 | 0.810 | 0.901 | 9.73 |
| 8) | T | Diethyl Ether | 0.343 | 0.346 | 0.330 | 0.291 | 0.315 | 0.272 | 0.316 | 9.40 |
| 9) | T | 1,1,2-Trichlor... | 0.712 | 0.715 | 0.659 | 0.603 | 0.649 | 0.537 | 0.646 | 10.48 |
| 10) | T | Methyl Iodide | 0.670 | 0.803 | 0.746 | 0.692 | 0.778 | 0.625 | 0.719 | 9.47 |
| 11) | T | Tert butyl alc... | 0.093 | 0.110 | 0.073 | 0.051 | 0.053 | 0.045 | 0.071 | 37.31 |
| 12) | CM | 1,1-Dichloroet... | 0.667 | 0.701 | 0.637 | 0.589 | 0.638 | 0.528 | 0.627 | 9.72# |
| 13) | T | Acrolein | 0.033 | 0.039 | 0.033 | 0.017 | 0.019 | 0.015 | 0.026 | 38.81 |
| 14) | T | Allyl chloride | 1.163 | 1.235 | 1.118 | 1.028 | 1.144 | 0.901 | 1.098 | 10.74 |
| 15) | T | Acrylonitrile | 0.144 | 0.179 | 0.144 | 0.155 | 0.153 | 0.132 | 0.151 | 10.38 |
| 16) | T | Acetone | 0.168 | 0.141 | 0.107 | 0.098 | 0.110 | | 0.125 | 23.18 |
| 17) | T | Carbon Disulfide | 2.142 | 2.315 | 2.083 | 1.939 | 2.092 | 1.669 | 2.040 | 10.70 |
| 18) | T | Methyl Acetate | 0.378 | 0.474 | 0.351 | 0.350 | 0.391 | 0.292 | 0.373 | 16.13 |
| 19) | T | Methyl tert-bu... | 1.542 | 1.799 | 1.584 | 1.663 | 1.652 | 1.466 | 1.618 | 7.10 |
| 20) | T | Methylene Chlo... | 0.766 | 0.758 | 0.683 | 0.617 | 0.665 | 0.596 | 0.681 | 10.29 |
| 21) | T | trans-1,2-Dich... | 0.707 | 0.771 | 0.703 | 0.710 | 0.692 | 0.636 | 0.703 | 6.17 |
| 22) | T | Diisopropyl ether | 2.216 | 2.452 | 2.235 | 2.286 | 2.216 | 1.971 | 2.229 | 6.95 |
| 23) | T | Vinyl Acetate | 1.175 | 1.418 | 1.245 | 1.314 | 1.295 | 1.129 | 1.263 | 8.20 |
| 24) | P | 1,1-Dichloroet... | 1.333 | 1.401 | 1.307 | 1.323 | 1.300 | 1.173 | 1.306 | 5.70 |
| 25) | T | 2-Butanone | 0.228 | 0.245 | 0.191 | 0.197 | 0.195 | 0.166 | 0.204 | 13.90 |
| 26) | T | 2,2-Dichloropr... | 1.451 | 1.366 | 1.219 | 1.184 | 1.146 | 1.041 | 1.235 | 12.13 |
| 27) | T | cis-1,2-Dichlo... | 0.827 | 0.875 | 0.815 | 0.817 | 0.797 | 0.724 | 0.809 | 6.09 |
| 28) | T | Bromochloromet... | 0.427 | 0.436 | 0.353 | 0.495 | 0.501 | 0.432 | 0.441 | 12.27 |
| 29) | T | Tetrahydrofuran | 0.116 | 0.154 | 0.126 | 0.133 | 0.132 | 0.110 | 0.128 | 11.76 |
| 30) | C | Chloroform | 2.069 | 1.768 | 1.465 | 1.378 | 1.302 | 1.186 | 1.528 | 21.59# |
| 31) | T | Cyclohexane | 1.443 | 1.388 | 1.247 | 1.198 | 1.160 | 1.056 | 1.249 | 11.59 |
| 32) | T | 1,1,1-Trichlor... | 1.219 | 1.298 | 1.215 | 1.198 | 1.183 | 1.086 | 1.200 | 5.72 |
| 33) | S | 1,2-Dichloroet... | 0.636 | 0.619 | 0.487 | 0.569 | 0.507 | 0.467 | 0.548 | 12.97 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | |
| 35) | S | Dibromofluorom... | 0.404 | 0.385 | 0.328 | 0.360 | 0.325 | 0.313 | 0.352 | 10.37 |
| 36) | T | 1,1-Dichloropr... | 0.688 | 0.691 | 0.637 | 0.637 | 0.622 | 0.581 | 0.643 | 6.46 |
| 37) | T | Ethyl Acetate | 0.296 | 0.379 | 0.290 | 0.298 | 0.296 | 0.255 | 0.302 | 13.52 |
| 38) | T | Carbon Tetrach... | 0.730 | 0.768 | 0.715 | 0.701 | 0.697 | 0.656 | 0.711 | 5.21 |
| 39) | T | Methylcyclohexane | 0.883 | 0.883 | 0.848 | 0.832 | 0.812 | 0.766 | 0.837 | 5.33 |
| 40) | TM | Benzene | 1.927 | 2.055 | 1.900 | 1.859 | 1.847 | 1.713 | 1.883 | 5.95 |
| 41) | T | Methacrylonitrile | 0.147 | 0.186 | 0.146 | 0.154 | 0.183 | 0.143 | 0.160 | 12.38 |
| 42) | TM | 1,2-Dichloroet... | 0.502 | 0.546 | 0.499 | 0.500 | 0.498 | 0.452 | 0.500 | 5.98 |
| 43) | T | Isopropyl Acetate | 0.519 | 0.671 | 0.554 | 0.582 | 0.589 | 0.518 | 0.572 | 9.93 |
| 44) | TM | Trichloroethene | 0.481 | 0.501 | 0.462 | 0.458 | 0.453 | 0.422 | 0.463 | 5.82 |
| 45) | C | 1,2-Dichloropr... | 0.442 | 0.473 | 0.450 | 0.434 | 0.440 | 0.401 | 0.440 | 5.30# |
| 46) | T | Dibromomethane | 0.232 | 0.262 | 0.230 | 0.231 | 0.233 | 0.209 | 0.233 | 7.18 |
| 47) | T | Bromodichlorom... | 0.626 | 0.672 | 0.632 | 0.632 | 0.627 | 0.581 | 0.628 | 4.57 |
| 48) | T | Methyl methacr... | 0.254 | 0.305 | 0.259 | 0.276 | 0.286 | 0.252 | 0.272 | 7.69 |
| 49) | T | 1,4-Dioxane | 0.002 | 0.003 | 0.002 | 0.003 | 0.003 | 0.002 | 0.003 | 10.37 |
| 50) | S | Toluene-d8 | 1.445 | 1.314 | 1.127 | 1.271 | 1.143 | 1.100 | 1.233 | 10.88 |
| 51) | T | 4-Methyl-2-Pen... | 0.297 | 0.364 | 0.290 | 0.299 | 0.301 | 0.261 | 0.302 | 11.09 |
| 52) | CM | Toluene | 1.176 | 1.247 | 1.185 | 1.167 | 1.165 | 1.082 | 1.170 | 4.52# |
| 53) | T | t-1,3-Dichloro... | 0.534 | 0.638 | 0.572 | 0.602 | 0.611 | 0.556 | 0.586 | 6.55 |
| 54) | T | cis-1,3-Dichlo... | 0.661 | 0.742 | 0.694 | 0.706 | 0.714 | 0.646 | 0.694 | 5.08 |
| 55) | T | 1,1,2-Trichlor... | 0.308 | 0.344 | 0.306 | 0.303 | 0.309 | 0.276 | 0.308 | 7.06 |

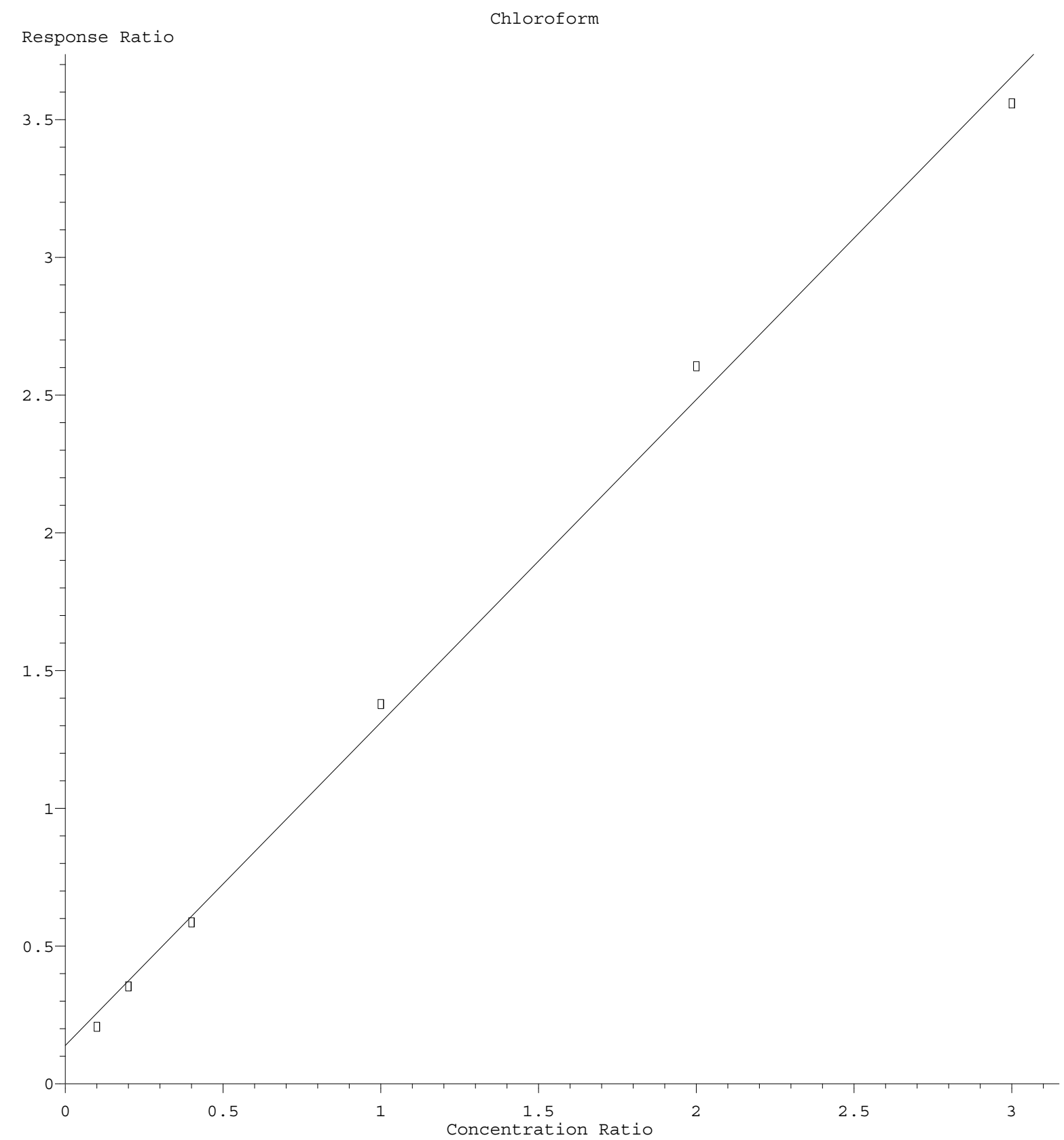
Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y121724S.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 56) | T | Ethyl methacry... | 0.388 | 0.485 | 0.422 | 0.460 | 0.487 | 0.435 | 0.446 | 8.63 |
| 57) | T | 1,3-Dichloropr... | 0.534 | 0.609 | 0.544 | 0.555 | 0.554 | 0.495 | 0.548 | 6.71 |
| 58) | T | 2-Chloroethyl ... | 0.185 | 0.197 | 0.176 | 0.172 | 0.198 | 0.198 | 0.188 | 6.28 |
| 59) | T | 2-Hexanone | 0.180 | 0.225 | 0.183 | 0.199 | 0.202 | 0.175 | 0.194 | 9.55 |
| 60) | T | Dibromochlorom... | 0.396 | 0.447 | 0.402 | 0.420 | 0.421 | 0.381 | 0.411 | 5.67 |
| 61) | T | 1,2-Dibromoethane | 0.277 | 0.319 | 0.281 | 0.288 | 0.290 | 0.261 | 0.286 | 6.70 |
| 62) | S | 4-Bromofluorob... | 0.585 | 0.538 | 0.448 | 0.480 | 0.433 | 0.412 | 0.482 | 13.88 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.533 | 0.505 | 0.464 | 0.452 | 0.446 | 0.422 | 0.470 | 8.71 |
| 65) | PM | Chlorobenzene | 1.441 | 1.501 | 1.397 | 1.374 | 1.381 | 1.293 | 1.398 | 4.99 |
| 66) | T | 1,1,1,2-Tetrac... | 0.479 | 0.529 | 0.468 | 0.474 | 0.476 | 0.443 | 0.478 | 5.88 |
| 67) | C | Ethyl Benzene | 2.633 | 2.747 | 2.583 | 2.556 | 2.543 | 2.414 | 2.579 | 4.24# |
| 68) | T | m/p-Xylenes | 0.984 | 1.031 | 0.951 | 0.953 | 0.942 | 0.892 | 0.959 | 4.82 |
| 69) | T | o-Xylene | 0.894 | 0.956 | 0.892 | 0.898 | 0.887 | 0.842 | 0.895 | 4.07 |
| 70) | T | Styrene | 1.478 | 1.586 | 1.496 | 1.502 | 1.501 | 1.406 | 1.495 | 3.85 |
| 71) | P | Bromoform | 0.262 | 0.302 | 0.256 | 0.270 | 0.272 | 0.250 | 0.269 | 6.86 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 4.401 | 4.636 | 4.451 | 4.356 | 4.284 | 4.051 | 4.363 | 4.43 |
| 74) | T | N-amyl acetate | 0.867 | 1.133 | 0.999 | 1.067 | 1.088 | 0.972 | 1.021 | 9.36 |
| 75) | P | 1,1,2,2-Tetrac... | 0.689 | 0.804 | 0.702 | 0.710 | 0.710 | 0.635 | 0.708 | 7.72 |
| 76) | T | 1,2,3-Trichlor... | 0.532 | 0.581 | 0.520 | 0.522 | 0.511 | 0.450 | 0.519 | 8.11 |
| 77) | T | Bromobenzene | 0.974 | 1.007 | 0.953 | 0.947 | 0.944 | 0.877 | 0.950 | 4.50 |
| 78) | T | n-propylbenzene | 5.307 | 5.566 | 5.397 | 5.283 | 5.151 | 4.837 | 5.257 | 4.71 |
| 79) | T | 2-Chlorotoluene | 3.020 | 3.114 | 3.012 | 2.940 | 2.932 | 2.727 | 2.958 | 4.42 |
| 80) | T | 1,3,5-Trimethy... | 3.616 | 3.701 | 3.622 | 3.560 | 3.473 | 3.270 | 3.540 | 4.30 |
| 81) | T | trans-1,4-Dich... | 0.212 | 0.270 | 0.247 | 0.256 | 0.262 | 0.237 | 0.247 | 8.45 |
| 82) | T | 4-Chlorotoluene | 3.264 | 3.185 | 3.123 | 3.059 | 2.993 | 2.786 | 3.068 | 5.46 |
| 83) | T | tert-Butylbenzene | 3.188 | 3.378 | 3.288 | 3.215 | 3.178 | 2.992 | 3.206 | 4.02 |
| 84) | T | 1,2,4-Trimethy... | 3.454 | 3.660 | 3.534 | 3.536 | 3.429 | 3.224 | 3.473 | 4.21 |
| 85) | T | sec-Butylbenzene | 4.806 | 4.894 | 4.777 | 4.690 | 4.543 | 4.263 | 4.662 | 4.91 |
| 86) | T | p-Isopropyltol... | 3.838 | 3.975 | 3.951 | 3.916 | 3.809 | 3.574 | 3.844 | 3.82 |
| 87) | T | 1,3-Dichlorobe... | 1.966 | 1.982 | 1.912 | 1.864 | 1.832 | 1.702 | 1.876 | 5.47 |
| 88) | T | 1,4-Dichlorobe... | 2.008 | 1.980 | 1.852 | 1.832 | 1.797 | 1.680 | 1.858 | 6.54 |
| 89) | T | n-Butylbenzene | 3.625 | 3.755 | 3.736 | 3.749 | 3.599 | 3.393 | 3.643 | 3.82 |
| 90) | T | Hexachloroethane | 0.774 | 0.794 | 0.764 | 0.764 | 0.753 | 0.720 | 0.762 | 3.23 |
| 91) | T | 1,2-Dichlorobe... | 1.694 | 1.735 | 1.614 | 1.606 | 1.602 | 1.501 | 1.626 | 5.01 |
| 92) | T | 1,2-Dibromo-3-... | 0.116 | 0.133 | 0.107 | 0.113 | 0.114 | 0.107 | 0.115 | 8.44 |
| 93) | T | 1,2,4-Trichlor... | 0.964 | 0.975 | 0.927 | 1.014 | 1.030 | 0.990 | 0.983 | 3.76 |
| 94) | T | Hexachlorobuta... | 0.667 | 0.650 | 0.636 | 0.657 | 0.634 | 0.613 | 0.643 | 2.97 |
| 95) | T | Naphthalene | 1.437 | 1.669 | 1.528 | 1.768 | 1.906 | 1.808 | 1.686 | 10.52 |
| 96) | T | 1,2,3-Trichlor... | 0.813 | 0.798 | 0.791 | 0.864 | 0.874 | 0.846 | 0.831 | 4.25 |

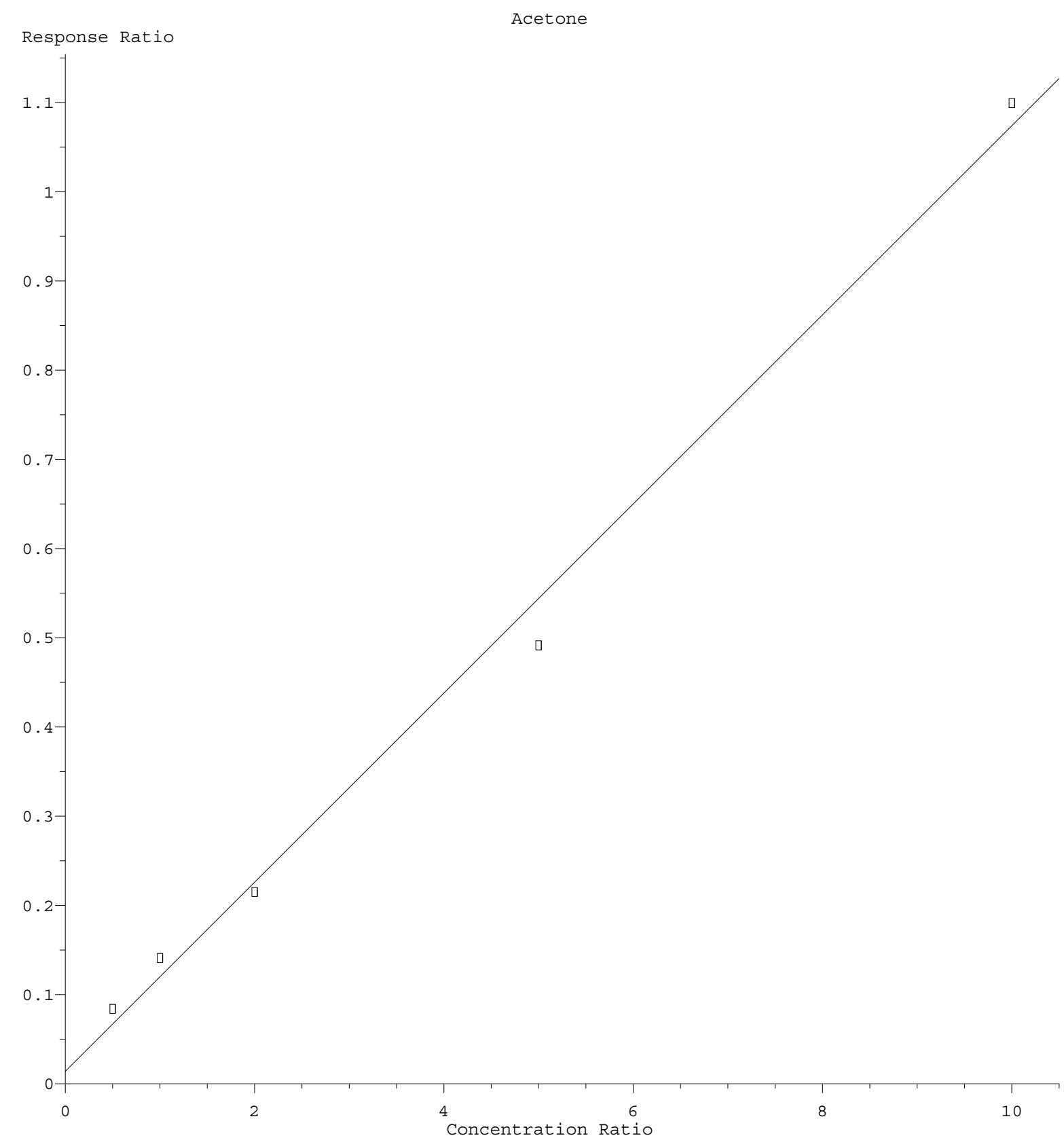
(#) = Out of Range




R = -7.535e-004 A*A + 5.441e-002 A + 3.343e-002
Coef of Det (r^2) = 0.991509  Curve Fit: Quadratic
Method Name:  Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y121724S.M
Calibration Table Last Updated: Wed Dec 18 05:27:13 2024




Response = 1.172e+000 * Amt + 1.389e-001
Coef of Det (r^2) = 0.996566  Curve Fit: Linear
Method Name:  Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y121724S.M
Calibration Table Last Updated: Wed Dec 18 05:27:13 2024




Response = 1.060e-001 * Amt + 1.400e-002
Coef of Det (r^2) = 0.993909  Curve Fit: Linear
Method Name:  Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y121724S.M
Calibration Table Last Updated: Wed Dec 18 05:27:13 2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020613.D
Acq On : 17 Dec 2024 10:01
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:50:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 170610 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 263150 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 228550 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 127910 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 21133 | 11.310 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 22.620%# | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 20262 | 10.925 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 21.860%# | | |
| 50) Toluene-d8 | 10.103 | 98 | 69155 | 10.653 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 21.300%# | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 28323 | 11.154 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 22.300%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 23136 | 10.857 | ug/l | 100 |
| 3) Chloromethane | 2.068 | 50 | 16735 | 10.599 | ug/l | 98 |
| 4) Vinyl Chloride | 2.202 | 62 | 15133 | 10.297 | ug/l | 98 |
| 5) Bromomethane | 2.598 | 94 | 9934 | 10.516 | ug/l | 95 |
| 6) Chloroethane | 2.732 | 64 | 9308 | 10.249 | ug/l | 93 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 33462 | 10.882 | ug/l | 97 |
| 8) Diethyl Ether | 3.458 | 74 | 11799 | 10.941 | ug/l | 94 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 24382 | 11.062 | ug/l | 99 |
| 10) Methyl Iodide | 4.007 | 142 | 27400 | 11.166 | ug/l | 96 |
| 11) Tert butyl alcohol | 4.842 | 59 | 18830 | 72.145 | ug/l # | 90 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 23914 | 11.182 | ug/l | 98 |
| 13) Acrolein | 3.653 | 56 | 6650 | 75.266 | ug/l | 100 |
| 14) Allyl chloride | 4.385 | 41 | 42157 | 11.250 | ug/l | 98 |
| 15) Acrylonitrile | 5.061 | 53 | 30489 | 59.095 | ug/l | 99 |
| 16) Acetone | 3.873 | 43 | 24059 | 59.918 | ug/l | 92 |
| 17) Carbon Disulfide | 4.110 | 76 | 79000 | 11.348 | ug/l | 98 |
| 18) Methyl Acetate | 4.391 | 43 | 16164 | 12.714 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 61370 | 11.118 | ug/l | 99 |
| 20) Methylene Chloride | 4.622 | 84 | 25848 | 11.126 | ug/l | 94 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 26315 | 10.969 | ug/l | 97 |
| 22) Diisopropyl ether | 6.018 | 45 | 83653 | 10.997 | ug/l | 94 |
| 23) Vinyl Acetate | 5.964 | 43 | 241892 | 56.147 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 47807 | 10.728 | ug/l | 99 |
| 25) 2-Butanone | 6.896 | 43 | 41782 | 60.169 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 46620 | 11.067 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 29841 | 10.812 | ug/l | 97 |
| 28) Bromochloromethane | 7.250 | 49 | 14872 | 9.894 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.262 | 42 | 26233 | 59.842 | ug/l | 99 |
| 30) Chloroform | 7.421 | 83 | 60327 | 9.156 | ug/l | 98 |
| 31) Cyclohexane | 7.701 | 56 | 47368 | 11.117 | ug/l # | 93 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 44299 | 10.820 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 36347 | 10.748 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 19950 | 12.541 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 40394 | 10.796 | ug/l | 95 |
| 39) Methylcyclohexane | 9.103 | 83 | 46462 | 10.541 | ug/l | 97 |
| 40) Benzene | 8.079 | 78 | 108150 | 10.910 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020613.D
Acq On : 17 Dec 2024 10:01
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Quant Time: Dec 18 04:50:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.226 | 41 | 9800 | 11.653 | ug/l | | 95 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 28739 | 10.931 | ug/l | | 98 |
| 43) Isopropyl Acetate | 8.195 | 43 | 35299 | 11.721 | ug/l | # | 88 |
| 44) Trichloroethene | 8.866 | 130 | 26388 | 10.834 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 24889 | 10.743 | ug/l | | 100 |
| 46) Dibromomethane | 9.231 | 93 | 13764 | 11.242 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 35352 | 10.689 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 16060 | 11.218 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.225 | 88 | 3340 | 237.872 | ug/l | # | 95 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 95663 | 60.180 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 65651 | 10.657 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 33566 | 10.892 | ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 39068 | 10.698 | ug/l | | 93 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 18100 | 11.181 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.438 | 69 | 25543 | 10.877 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 32029 | 11.099 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 51913 | 52.537 | ug/l | | 100 |
| 59) 2-Hexanone | 10.755 | 43 | 59126 | 57.933 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 23549 | 10.878 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 16807 | 11.162 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 23098 | 10.744 | ug/l | | 96 |
| 65) Chlorobenzene | 11.438 | 112 | 68621 | 10.738 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 24180 | 11.065 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.518 | 91 | 125547 | 10.649 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 94273 | 21.506 | ug/l | | 98 |
| 69) o-Xylene | 11.950 | 106 | 43697 | 10.684 | ug/l | | 100 |
| 70) Styrene | 11.969 | 104 | 72514 | 10.612 | ug/l | | 99 |
| 71) Bromoform | 12.127 | 173 | 13822 | 11.250 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.255 | 105 | 118590 | 10.624 | ug/l | | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 28977 | 11.093 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 20569 | 11.352 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 14870m | 11.287 | ug/l | | |
| 77) Bromobenzene | 12.530 | 156 | 25752 | 10.591 | ug/l | | 97 |
| 78) n-propylbenzene | 12.597 | 91 | 142396 | 10.588 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 79651 | 10.527 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 94672 | 10.453 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 6908 | 10.913 | ug/l | | 93 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 81482 | 10.380 | ug/l | | 98 |
| 83) tert-Butylbenzene | 12.993 | 119 | 86405 | 10.534 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 93630 | 10.539 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.176 | 105 | 125189 | 10.497 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 101690 | 10.342 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 50691 | 10.561 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 50665 | 10.658 | ug/l | | 97 |
| 89) n-Butylbenzene | 13.615 | 91 | 96052 | 10.307 | ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 20324 | 10.430 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 44391 | 10.674 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 3406 | 11.579 | ug/l | | 91 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 24954 | 9.920 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 16620 | 10.107 | ug/l | | 97 |
| 95) Naphthalene | 15.145 | 128 | 42698 | 9.901 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 20408 | 9.602 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020613.D
Acq On : 17 Dec 2024 10:01
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:50:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

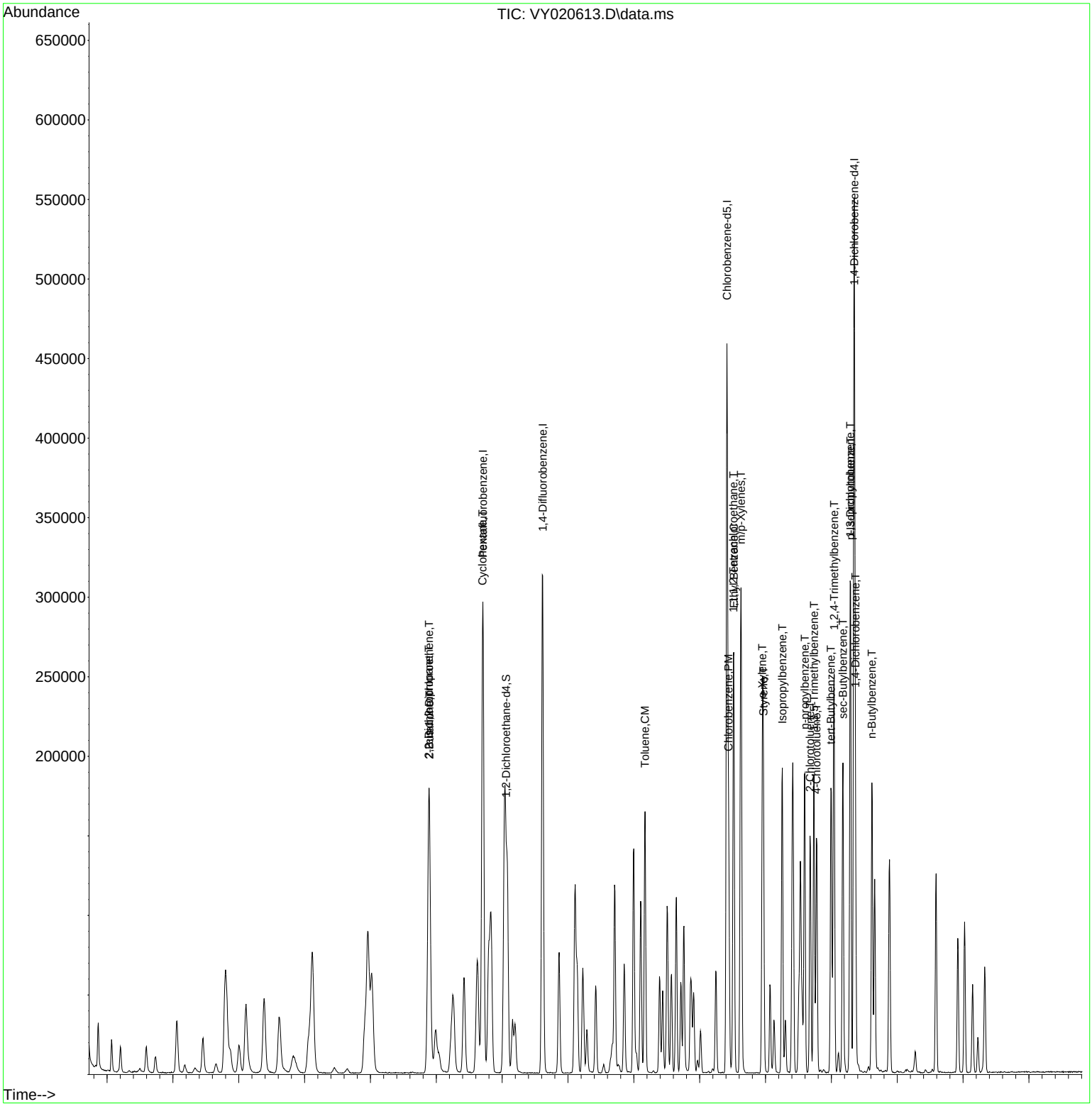
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020613.D
Acq On : 17 Dec 2024 10:01
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 18 04:50:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020614.D
Acq On : 17 Dec 2024 10:23
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:51:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 177160 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 272612 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 241222 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 131827 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 34492 | 17.777 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 35.560%# | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 35742 | 18.603 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 37.200%# | | |
| 50) Toluene-d8 | 10.103 | 98 | 122846 | 18.267 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 36.540%# | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 48801 | 18.552 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 37.100% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 44875 | 20.280 | ug/l | 99 |
| 3) Chloromethane | 2.068 | 50 | 35845 | 21.863 | ug/l | 98 |
| 4) Vinyl Chloride | 2.202 | 62 | 33253 | 21.791 | ug/l | 100 |
| 5) Bromomethane | 2.586 | 94 | 19758 | 20.142 | ug/l | 100 |
| 6) Chloroethane | 2.732 | 64 | 20312 | 21.539 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.055 | 101 | 67594 | 21.169 | ug/l | 98 |
| 8) Diethyl Ether | 3.452 | 74 | 23380 | 20.878 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 3.817 | 101 | 46696 | 20.403 | ug/l | 100 |
| 10) Methyl Iodide | 4.000 | 142 | 52895 | 20.758 | ug/l | 97 |
| 11) Tert butyl alcohol | 4.866 | 59 | 25807 | 106.274 | ug/l # | 93 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 45124 | 20.319 | ug/l | 99 |
| 13) Acrolein | 3.653 | 56 | 11611 | 126.557 | ug/l | 94 |
| 14) Allyl chloride | 4.384 | 41 | 79257 | 20.368 | ug/l | 99 |
| 15) Acrylonitrile | 5.055 | 53 | 51118 | 95.416 | ug/l | 99 |
| 16) Acetone | 3.866 | 43 | 38075 | 94.781 | ug/l | 99 |
| 17) Carbon Disulfide | 4.104 | 76 | 147576 | 20.416 | ug/l | 100 |
| 18) Methyl Acetate | 4.384 | 43 | 24886 | 18.851 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 5.110 | 73 | 112241 | 19.582 | ug/l | 96 |
| 20) Methylene Chloride | 4.616 | 84 | 48431 | 20.076 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 49814 | 19.997 | ug/l | 97 |
| 22) Diisopropyl ether | 6.018 | 45 | 158410 | 20.055 | ug/l | 97 |
| 23) Vinyl Acetate | 5.963 | 43 | 441039 | 98.587 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 92599 | 20.011 | ug/l | 99 |
| 25) 2-Butanone | 6.896 | 43 | 67498 | 93.608 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 86393 | 19.750 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 57749 | 20.149 | ug/l | 99 |
| 28) Bromochloromethane | 7.244 | 49 | 24987 | 16.009 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.256 | 42 | 44636 | 98.059 | ug/l | 98 |
| 30) Chloroform | 7.421 | 83 | 103806 | 19.065 | ug/l | 99 |
| 31) Cyclohexane | 7.701 | 56 | 88339 | 19.966 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 86081 | 20.249 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 69466 | 19.828 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 31585 | 19.166 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 77945 | 20.109 | ug/l | 96 |
| 39) Methylcyclohexane | 9.103 | 83 | 92458 | 20.249 | ug/l | 97 |
| 40) Benzene | 8.079 | 78 | 207185 | 20.176 | ug/l | 97 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020614.D
Acq On : 17 Dec 2024 10:23
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Quant Time: Dec 18 04:51:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.213 | 41 | 15884 | 18.232 | ug/l | | 96 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 54425 | 19.983 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 60446 | 19.375 | ug/l | # | 88 |
| 44) Trichloroethene | 8.865 | 130 | 50346 | 19.952 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 49119 | 20.466 | ug/l | | 99 |
| 46) Dibromomethane | 9.231 | 93 | 25054 | 19.753 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 68951 | 20.125 | ug/l | | 97 |
| 48) Methyl methacrylate | 9.219 | 41 | 28256 | 19.051 | ug/l | | 100 |
| 49) 1,4-Dioxane | 9.225 | 88 | 5399 | 371.167 | ug/l | | 96 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 157955 | 95.918 | ug/l | | 99 |
| 52) Toluene | 10.170 | 92 | 129196 | 20.245 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 62391 | 19.543 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 75647 | 19.996 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 33330 | 19.875 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.438 | 69 | 46055 | 18.930 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 59274 | 19.828 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 96023 | 93.804 | ug/l | | 100 |
| 59) 2-Hexanone | 10.755 | 43 | 99623 | 94.224 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 43825 | 19.541 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 30621 | 19.630 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 44735 | 19.716 | ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 134807 | 19.987 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 45146 | 19.574 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.517 | 91 | 249208 | 20.027 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 183488 | 39.659 | ug/l | | 98 |
| 69) o-Xylene | 11.950 | 106 | 86043 | 19.932 | ug/l | | 98 |
| 70) Styrene | 11.968 | 104 | 144333 | 20.012 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 24718 | 19.062 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 234727 | 20.404 | ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 52699 | 19.574 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 36998 | 19.813 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 27440m | 20.210 | ug/l | | |
| 77) Bromobenzene | 12.529 | 156 | 50276 | 20.063 | ug/l | | 99 |
| 78) n-propylbenzene | 12.596 | 91 | 284604 | 20.534 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 158834 | 20.369 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 190968 | 20.458 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 13039 | 19.986 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 164692 | 20.358 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.999 | 119 | 173358 | 20.507 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.041 | 105 | 186344 | 20.352 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 251880 | 20.492 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 208342 | 20.558 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 100815 | 20.380 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 97668 | 19.935 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 196997 | 20.511 | ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 40281 | 20.057 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 85128 | 19.862 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 5627 | 18.561 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 48869 | 18.850 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 33524 | 19.781 | ug/l | | 99 |
| 95) Naphthalene | 15.145 | 128 | 80562 | 18.126 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 41686 | 19.031 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020614.D
Acq On : 17 Dec 2024 10:23
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:51:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

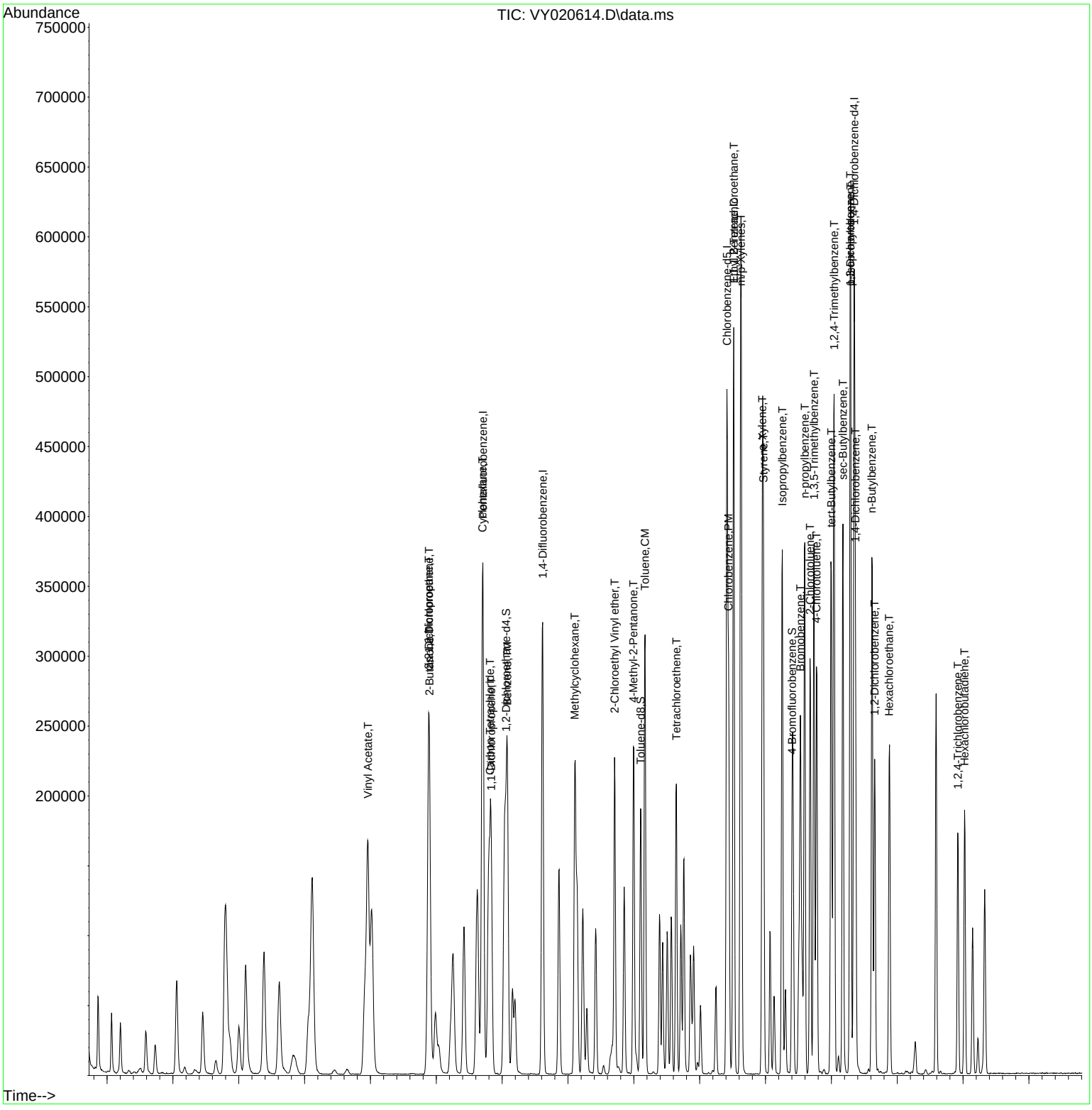
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020614.D
Acq On : 17 Dec 2024 10:23
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 18 04:51:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020615.D
Acq On : 17 Dec 2024 10:51
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:52:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 169292 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 263162 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 234325 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 130092 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 96289 | 51.933 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 103.860% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 94848 | 51.139 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 102.280% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 334601 | 51.543 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 103.080% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 126226 | 49.707 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 99.420% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 104493 | 49.416 | ug/l | 100 |
| 3) Chloromethane | 2.068 | 50 | 72429 | 46.229 | ug/l | 100 |
| 4) Vinyl Chloride | 2.202 | 62 | 62750 | 43.031 | ug/l | 100 |
| 5) Bromomethane | 2.598 | 94 | 38716 | 41.303 | ug/l | 100 |
| 6) Chloroethane | 2.738 | 64 | 35946 | 39.890 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.061 | 101 | 133990 | 43.913 | ug/l | 100 |
| 8) Diethyl Ether | 3.458 | 74 | 49218 | 45.993 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.817 | 101 | 102158 | 46.710 | ug/l | 100 |
| 10) Methyl Iodide | 4.006 | 142 | 117209 | 48.135 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.860 | 59 | 42756 | 214.068 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 99773 | 47.016 | ug/l | 100 |
| 13) Acrolein | 3.653 | 56 | 14576 | 166.258 | ug/l | 100 |
| 14) Allyl chloride | 4.384 | 41 | 173951 | 46.780 | ug/l | 100 |
| 15) Acrylonitrile | 5.055 | 53 | 130861 | 255.615 | ug/l | 100 |
| 16) Acetone | 3.866 | 43 | 83206 | 225.255 | ug/l | 100 |
| 17) Carbon Disulfide | 4.104 | 76 | 328309 | 47.529 | ug/l | 100 |
| 18) Methyl Acetate | 4.384 | 43 | 59224 | 46.948 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 281609 | 51.414 | ug/l | 100 |
| 20) Methylene Chloride | 4.616 | 84 | 104472 | 45.319 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 120184 | 50.488 | ug/l | 100 |
| 22) Diisopropyl ether | 6.024 | 45 | 387073 | 51.282 | ug/l | 100 |
| 23) Vinyl Acetate | 5.963 | 43 | 1112368 | 260.208 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 223898 | 50.635 | ug/l | 100 |
| 25) 2-Butanone | 6.896 | 43 | 167158 | 242.593 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 200438 | 47.951 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 138280 | 50.490 | ug/l | 100 |
| 28) Bromochloromethane | 7.244 | 49 | 83821 | 56.199 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.262 | 42 | 112230 | 258.011 | ug/l | 100 |
| 30) Chloroform | 7.420 | 83 | 233357 | 52.860 | ug/l | 100 |
| 31) Cyclohexane | 7.701 | 56 | 202782 | 47.962 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 202760 | 49.911 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 167520 | 49.533 | ug/l | 100 |
| 37) Ethyl Acetate | 6.981 | 43 | 78387 | 49.275 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 184345 | 49.267 | ug/l | 100 |
| 39) Methylcyclohexane | 9.109 | 83 | 219055 | 49.696 | ug/l | 100 |
| 40) Benzene | 8.079 | 78 | 489140 | 49.343 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020615.D
Acq On : 17 Dec 2024 10:51
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Quant Time: Dec 18 04:52:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 40529 | 48.191 | ug/l | | 100 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 131640 | 50.069 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 153226 | 50.877 | ug/l | | 100 |
| 44) Trichloroethene | 8.865 | 130 | 120552 | 49.491 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 114250 | 49.313 | ug/l | | 100 |
| 46) Dibromomethane | 9.231 | 93 | 60782 | 49.642 | ug/l | | 100 |
| 47) Bromodichloromethane | 9.420 | 83 | 166333 | 50.291 | ug/l | | 100 |
| 48) Methyl methacrylate | 9.219 | 41 | 72602 | 50.709 | ug/l | | 100 |
| 49) 1,4-Dioxane | 9.231 | 88 | 14069 | 1001.939 | ug/l | | 100 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 393979 | 247.835 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 307082 | 49.846 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.389 | 75 | 158536 | 51.442 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 185696 | 50.849 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 79837 | 49.318 | ug/l | | 100 |
| 56) Ethyl methacrylate | 10.438 | 69 | 121030 | 51.535 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 146053 | 50.611 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 226061 | 228.767 | ug/l | | 100 |
| 59) 2-Hexanone | 10.761 | 43 | 261334 | 256.048 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 110597 | 51.085 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 75811 | 50.346 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.645 | 164 | 105939 | 48.065 | ug/l | | 100 |
| 65) Chlorobenzene | 11.438 | 112 | 322053 | 49.154 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 111060 | 49.571 | ug/l | | 100 |
| 67) Ethyl Benzene | 11.517 | 91 | 598896 | 49.546 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 446771 | 99.408 | ug/l | | 100 |
| 69) o-Xylene | 11.956 | 106 | 210499 | 50.198 | ug/l | | 100 |
| 70) Styrene | 11.968 | 104 | 351858 | 50.222 | ug/l | | 100 |
| 71) Bromoform | 12.133 | 173 | 63198 | 50.171 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.255 | 105 | 566646 | 49.914 | ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 138830 | 52.254 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 92349 | 50.115 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 67873m | 50.656 | ug/l | | |
| 77) Bromobenzene | 12.529 | 156 | 123256 | 49.842 | ug/l | | 100 |
| 78) n-propylbenzene | 12.596 | 91 | 687319 | 50.251 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 382511 | 49.707 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 463155 | 50.279 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 33360 | 51.816 | ug/l | | 100 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 397958 | 49.848 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 418182 | 50.127 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.041 | 105 | 459974 | 50.907 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.176 | 105 | 610142 | 50.301 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 509445 | 50.941 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 242502 | 49.677 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 238266 | 49.281 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.614 | 91 | 487742 | 51.461 | ug/l | | 100 |
| 90) Hexachloroethane | 13.883 | 117 | 99360 | 50.134 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 208977 | 49.409 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 14740 | 49.268 | ug/l | | 100 |
| 93) 1,2,4-Trichlorobenzene | 14.925 | 180 | 131852 | 51.538 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 85490 | 51.117 | ug/l | | 100 |
| 95) Naphthalene | 15.145 | 128 | 229979 | 52.434 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 112349 | 51.976 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020615.D
Acq On : 17 Dec 2024 10:51
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:52:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

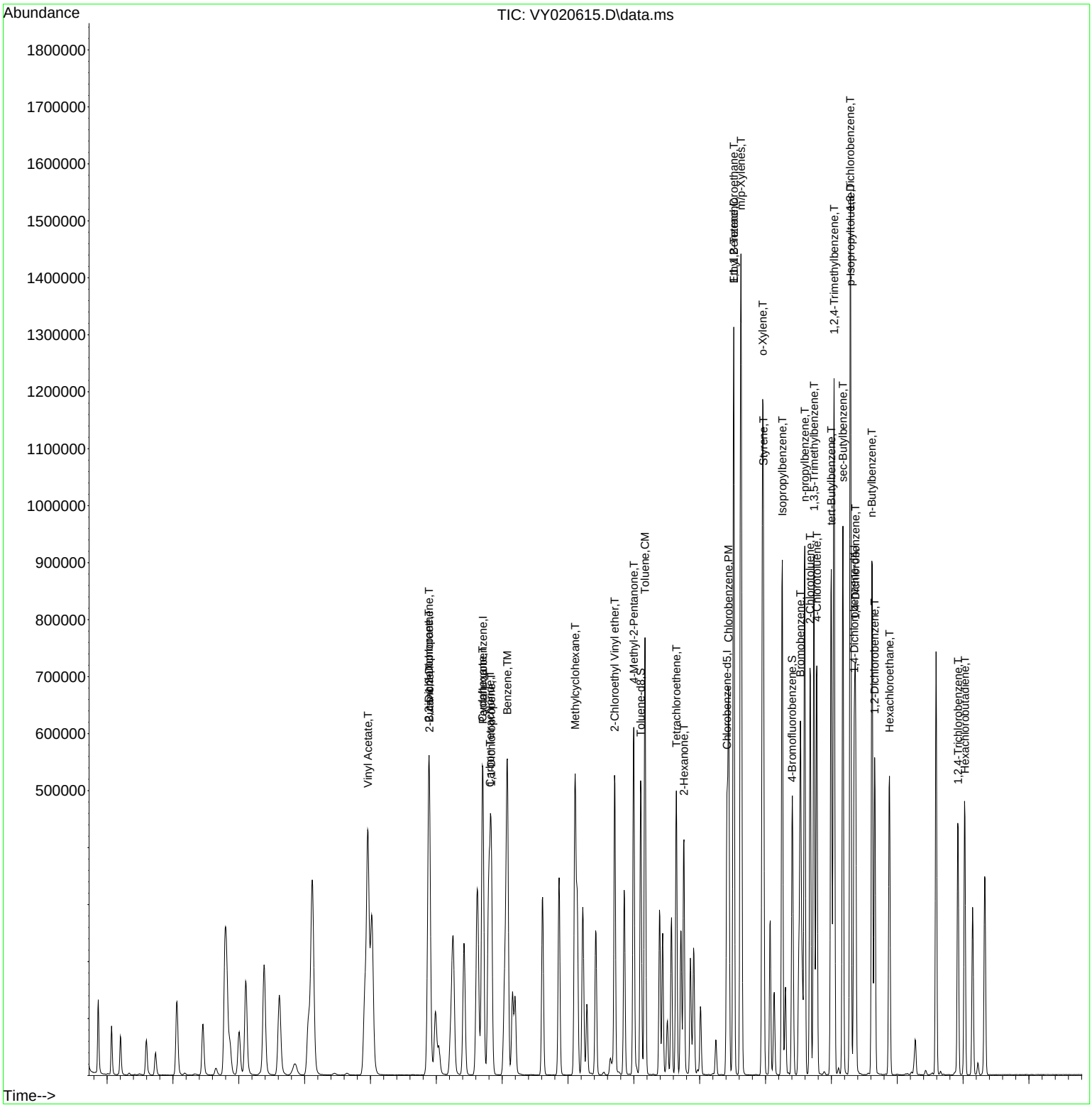
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020615.D
Acq On : 17 Dec 2024 10:51
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 04:52:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020616.D
Acq On : 17 Dec 2024 11:14
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:53:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 175469 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 270859 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.413 | 117 | 241570 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 134321 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.060 | 65 | 177978 | 92.612 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 185.220%# | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 175849 | 92.118 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 184.240%# | | | |
| 50) Toluene-d8 | 10.103 | 98 | 619412 | 92.704 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 185.400%# | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 234353 | 89.665 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 179.320%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.866 | 85 | 210949 | 96.249 | ug/l | 99 |
| 3) Chloromethane | 2.068 | 50 | 149471 | 92.044 | ug/l | 98 |
| 4) Vinyl Chloride | 2.202 | 62 | 154262 | 102.062 | ug/l | 99 |
| 5) Bromomethane | 2.586 | 94 | 98824 | 101.715 | ug/l | 97 |
| 6) Chloroethane | 2.732 | 64 | 95621 | 102.376 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.055 | 101 | 308242 | 97.464 | ug/l | 98 |
| 8) Diethyl Ether | 3.458 | 74 | 110471 | 99.599 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.811 | 101 | 227753 | 100.469 | ug/l | 99 |
| 10) Methyl Iodide | 4.000 | 142 | 272999 | 108.168 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.860 | 59 | 92710 | 533.746 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 224015 | 101.847 | ug/l | 100 |
| 13) Acrolein | 3.653 | 56 | 32525 | 357.929 | ug/l | 98 |
| 14) Allyl chloride | 4.384 | 41 | 401452 | 104.161 | ug/l | 99 |
| 15) Acrylonitrile | 5.055 | 53 | 268782 | 506.539 | ug/l | 99 |
| 16) Acetone | 3.872 | 43 | 192907 | 512.024 | ug/l | 99 |
| 17) Carbon Disulfide | 4.104 | 76 | 734236 | 102.553 | ug/l | 99 |
| 18) Methyl Acetate | 4.384 | 43 | 137166 | 104.906 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 579813 | 102.132 | ug/l | 98 |
| 20) Methylene Chloride | 4.610 | 84 | 233323 | 97.650 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 242695 | 98.365 | ug/l | 97 |
| 22) Diisopropyl ether | 6.018 | 45 | 777568 | 99.391 | ug/l | 96 |
| 23) Vinyl Acetate | 5.957 | 43 | 2271891 | 512.739 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.914 | 63 | 456073 | 99.510 | ug/l | 99 |
| 25) 2-Butanone | 6.890 | 43 | 341489 | 478.150 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 402163 | 92.822 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 279676 | 98.523 | ug/l | 99 |
| 28) Bromochloromethane | 7.243 | 49 | 175710 | 113.661 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.262 | 42 | 230877 | 512.090 | ug/l | 100 |
| 30) Chloroform | 7.420 | 83 | 457070 | 105.160 | ug/l | 97 |
| 31) Cyclohexane | 7.701 | 56 | 407104 | 92.899 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.615 | 97 | 415073 | 98.578 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 337138 | 96.854 | ug/l | 99 |
| 37) Ethyl Acetate | 6.981 | 43 | 160241 | 97.867 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 377406 | 97.998 | ug/l | 100 |
| 39) Methylcyclohexane | 9.109 | 83 | 440006 | 96.986 | ug/l | 99 |
| 40) Benzene | 8.079 | 78 | 1000543 | 98.064 | ug/l | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020616.D
Acq On : 17 Dec 2024 11:14
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Quant Time: Dec 18 04:53:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 99381 | 114.810 | ug/l | # | 86 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 270045 | 99.793 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 318902 | 102.879 | ug/l | | 99 |
| 44) Trichloroethene | 8.865 | 130 | 245474 | 97.912 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.139 | 63 | 238605 | 100.062 | ug/l | | 99 |
| 46) Dibromomethane | 9.231 | 93 | 126063 | 100.032 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 339720 | 99.796 | ug/l | | 97 |
| 48) Methyl methacrylate | 9.219 | 41 | 154845 | 105.079 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.225 | 88 | 29870 | 2066.774 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 814840 | 498.015 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 631368 | 99.573 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.389 | 75 | 330795 | 104.287 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 386715 | 102.884 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 167205 | 100.352 | ug/l | | 95 |
| 56) Ethyl methacrylate | 10.438 | 69 | 263694 | 109.090 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.712 | 76 | 299884 | 100.965 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.706 | 63 | 536306 | 527.303 | ug/l | | 100 |
| 59) 2-Hexanone | 10.755 | 43 | 548285 | 521.929 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.907 | 129 | 228154 | 102.389 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 156883 | 101.225 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.645 | 164 | 215415 | 94.803 | ug/l | | 97 |
| 65) Chlorobenzene | 11.438 | 112 | 667347 | 98.800 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 229790 | 99.489 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.517 | 91 | 1228775 | 98.607 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 910536 | 196.521 | ug/l | | 99 |
| 69) o-Xylene | 11.956 | 106 | 428727 | 99.174 | ug/l | | 97 |
| 70) Styrene | 11.968 | 104 | 725167 | 100.401 | ug/l | | 100 |
| 71) Bromoform | 12.133 | 173 | 131589 | 101.332 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.255 | 105 | 1150948 | 98.191 | ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 292377 | 106.582 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 190664 | 100.209 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 137213m | 99.183 | ug/l | | |
| 77) Bromobenzene | 12.529 | 156 | 253587 | 99.317 | ug/l | | 100 |
| 78) n-propylbenzene | 12.596 | 91 | 1383699 | 97.980 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.675 | 91 | 787764 | 99.147 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.736 | 105 | 933106 | 98.108 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 70365 | 105.852 | ug/l | | 100 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 804177 | 97.558 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 853675 | 99.108 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.041 | 105 | 921051 | 98.727 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.175 | 105 | 1220465 | 97.450 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 1023181 | 99.089 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 492097 | 97.633 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.364 | 146 | 482756 | 96.707 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.614 | 91 | 966758 | 98.789 | ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 202399 | 98.910 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 430383 | 98.552 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 30584 | 99.008 | ug/l | | 96 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 276806 | 104.790 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 170325 | 98.635 | ug/l | | 99 |
| 95) Naphthalene | 15.145 | 128 | 511948 | 113.046 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.327 | 180 | 234803 | 105.207 | ug/l | | 99 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020616.D
Acq On : 17 Dec 2024 11:14
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:53:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

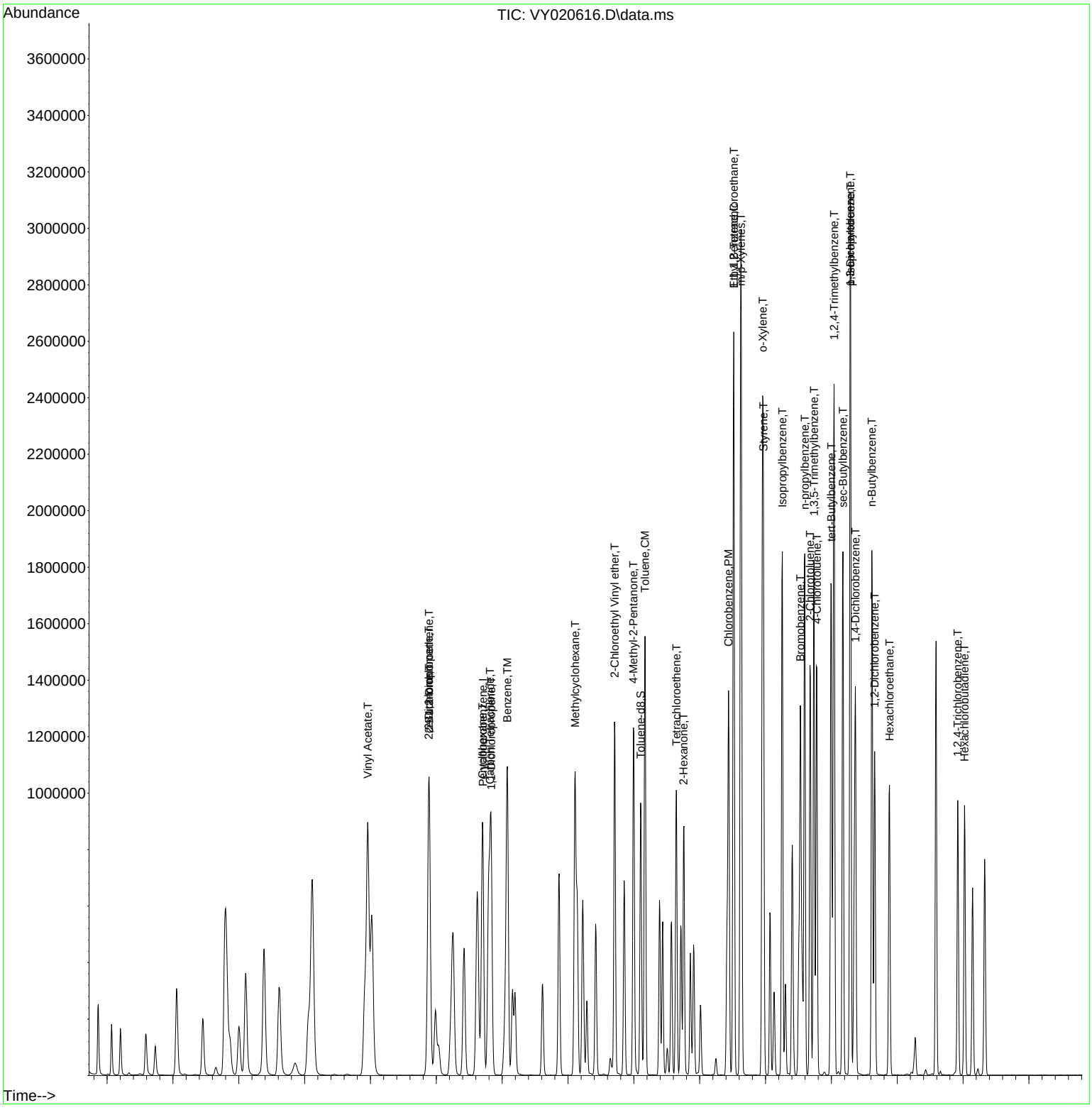
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020616.D
Acq On : 17 Dec 2024 11:14
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 18 04:53:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020617.D
Acq On : 17 Dec 2024 11:37
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:54:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 184362 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 278509 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 244385 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 135852 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 258496 | 128.022 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 256.040%# | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 261486 | 133.217 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 266.440%# | | | |
| 50) Toluene-d8 | 10.103 | 98 | 919148 | 133.785 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 267.580%# | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 343903 | 127.965 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 255.940%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 305452 | 132.646 | ug/l | 99 |
| 3) Chloromethane | 2.068 | 50 | 205555 | 120.474 | ug/l | 97 |
| 4) Vinyl Chloride | 2.202 | 62 | 206764 | 130.199 | ug/l | 100 |
| 5) Bromomethane | 2.586 | 94 | 140413 | 137.550 | ug/l | 99 |
| 6) Chloroethane | 2.727 | 64 | 138821 | 141.459 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.056 | 101 | 447890 | 134.789 | ug/l | 98 |
| 8) Diethyl Ether | 3.452 | 74 | 150374 | 129.035 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 297171 | 124.769 | ug/l | 100 |
| 10) Methyl Iodide | 4.001 | 142 | 345686 | 130.361 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.866 | 59 | 123878 | 737.397 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 291982 | 126.344 | ug/l | 98 |
| 13) Acrolein | 3.653 | 56 | 42281 | 442.848 | ug/l | 97 |
| 14) Allyl chloride | 4.385 | 41 | 498233 | 123.037 | ug/l | 99 |
| 15) Acrylonitrile | 5.055 | 53 | 365294 | 655.216 | ug/l | 98 |
| 17) Carbon Disulfide | 4.104 | 76 | 923365 | 122.748 | ug/l | 100 |
| 18) Methyl Acetate | 4.385 | 43 | 161535 | 117.584 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 810589 | 135.895 | ug/l | 96 |
| 20) Methylene Chloride | 4.616 | 84 | 329862 | 131.394 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 351487 | 135.586 | ug/l | 99 |
| 22) Diisopropyl ether | 6.019 | 45 | 1089955 | 132.601 | ug/l | 99 |
| 23) Vinyl Acetate | 5.958 | 43 | 3123065 | 670.840 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 648906 | 134.755 | ug/l | 100 |
| 25) 2-Butanone | 6.890 | 43 | 458674 | 611.252 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 575868 | 126.503 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 400187 | 134.176 | ug/l | 99 |
| 28) Bromochloromethane | 7.244 | 49 | 238929 | 147.100 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 305396 | 644.700 | ug/l | 99 |
| 30) Chloroform | 7.421 | 83 | 656177 | 145.857 | ug/l | 98 |
| 31) Cyclohexane | 7.701 | 56 | 584271 | 126.896 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 600711 | 135.784 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 485468 | 135.636 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 213468 | 126.794 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 548361 | 138.477 | ug/l | 98 |
| 39) Methylcyclohexane | 9.110 | 83 | 640301 | 137.259 | ug/l | 98 |
| 40) Benzene | 8.079 | 78 | 1431012 | 136.402 | ug/l | 98 |
| 41) Methacrylonitrile | 7.220 | 41 | 119101 | 133.813 | ug/l | 95 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020617.D
Acq On : 17 Dec 2024 11:37
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Quant Time: Dec 18 04:54:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 42) 1,2-Dichloroethane | 8.159 | 62 | 377438 | 135.647 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 433206 | 135.916 | ug/l | | 100 |
| 44) Trichloroethene | 8.866 | 130 | 352263 | 136.648 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 335340 | 136.766 | ug/l | | 98 |
| 46) Dibromomethane | 9.225 | 93 | 174812 | 134.905 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 485795 | 138.787 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 210550 | 138.957 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.225 | 88 | 41221 | 2773.834 | ug/l | | 100 |
| 51) 4-Methyl-2-Pentanone | 9.994 | 43 | 1092140 | 649.161 | ug/l | | 99 |
| 52) Toluene | 10.170 | 92 | 904033 | 138.659 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 464905 | 142.541 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 540157 | 139.760 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.567 | 97 | 230372 | 134.466 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.439 | 69 | 363115 | 146.095 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 413542 | 135.406 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 826777 | 790.569 | ug/l | | 99 |
| 59) 2-Hexanone | 10.756 | 43 | 731842 | 677.527 | ug/l | | 98 |
| 60) Dibromochloromethane | 10.908 | 129 | 318266 | 138.906 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 218394 | 137.043 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 309587 | 134.678 | ug/l | | 97 |
| 65) Chlorobenzene | 11.438 | 112 | 948051 | 138.742 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.512 | 131 | 324778 | 138.995 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.518 | 91 | 1770086 | 140.410 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 1308282 | 279.114 | ug/l | | 100 |
| 69) o-Xylene | 11.951 | 106 | 617079 | 141.099 | ug/l | | 99 |
| 70) Styrene | 11.969 | 104 | 1031166 | 141.122 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 183216 | 139.463 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.255 | 105 | 1651138 | 139.276 | ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 396216 | 142.807 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 258787 | 134.480 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 183456m | 131.115 | ug/l | | |
| 77) Bromobenzene | 12.530 | 156 | 357464 | 138.423 | ug/l | | 100 |
| 78) n-propylbenzene | 12.597 | 91 | 1971458 | 138.026 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 1111362 | 138.298 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 1332805 | 138.553 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 96747 | 143.899 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.774 | 91 | 1135416 | 136.190 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 1219521 | 139.985 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 1313945 | 139.253 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 1737212 | 137.147 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 1456581 | 139.472 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 693843 | 136.109 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 684559 | 135.587 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.615 | 91 | 1382912 | 139.722 | ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 293562 | 141.843 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.658 | 146 | 611871 | 138.532 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 43513 | 139.274 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 403445 | 151.011 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 250003 | 143.145 | ug/l | | 100 |
| 95) Naphthalene | 15.145 | 128 | 736677 | 160.836 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 344880 | 152.787 | ug/l | | 99 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020617.D
Acq On : 17 Dec 2024 11:37
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:54:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

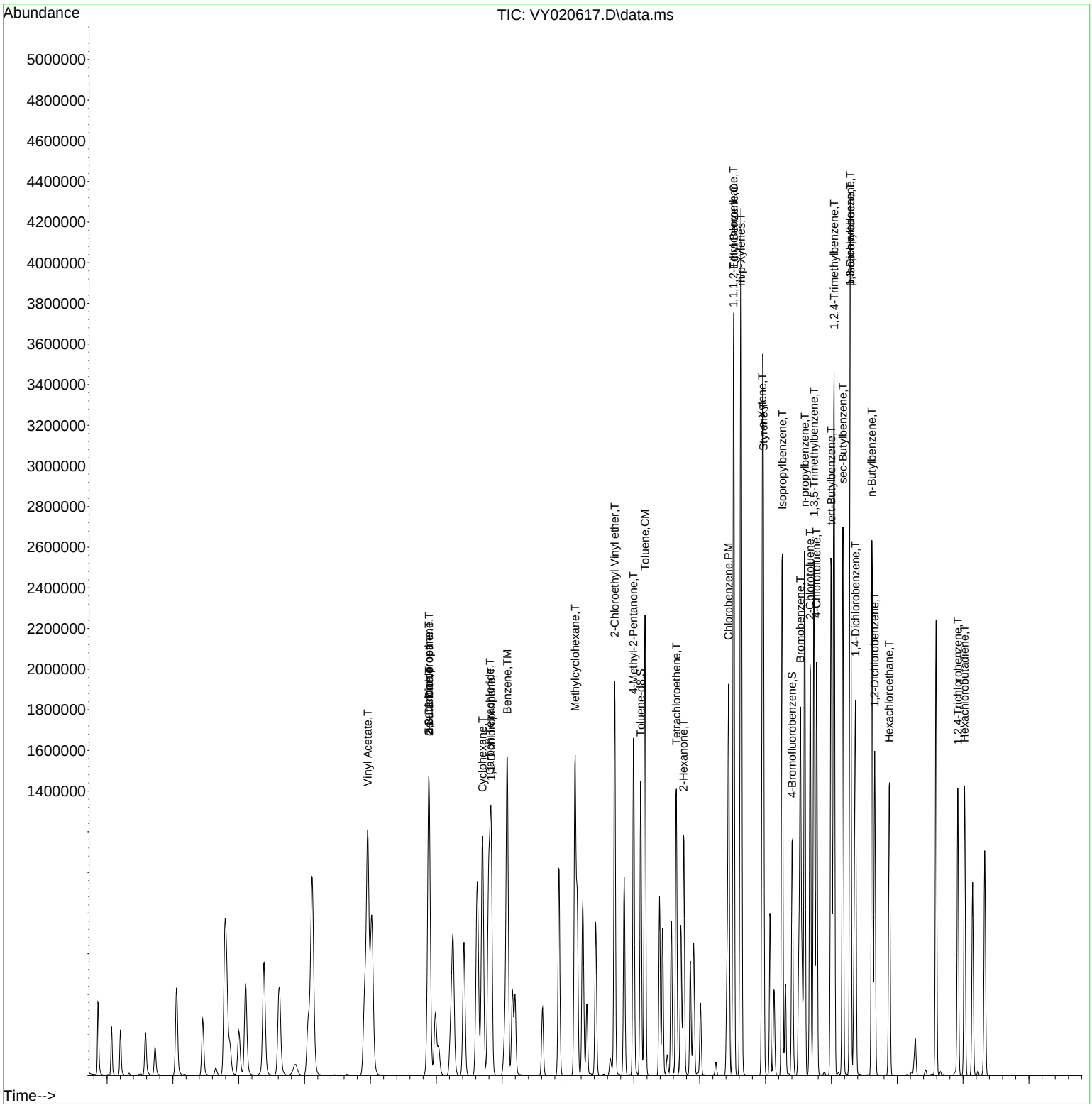
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020617.D
Acq On : 17 Dec 2024 11:37
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 18 04:54:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020619.D
Acq On : 17 Dec 2024 14:51
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:55:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 167036 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 257526 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 219786 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 120870 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 10628 | 5.810 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 11.620%# | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 10393 | 5.726 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 11.460%# | | | |
| 50) Toluene-d8 | 10.109 | 98 | 37211 | 5.858 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 11.720%# | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 15073 | 6.066 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 12.140%# | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 11112 | 5.326 | ug/l | | 100 |
| 3) Chloromethane | 2.074 | 50 | 9266 | 5.994 | ug/l | | 89 |
| 4) Vinyl Chloride | 2.208 | 62 | 8140 | 5.657 | ug/l | | 91 |
| 5) Bromomethane | 2.599 | 94 | 5462 | 5.906 | ug/l | | 84 |
| 6) Chloroethane | 2.739 | 64 | 5039 | 5.667 | ug/l | | 97 |
| 7) Trichlorofluoromethane | 3.068 | 101 | 16587 | 5.509 | ug/l | | 89 |
| 8) Diethyl Ether | 3.464 | 74 | 5733 | 5.430 | ug/l | | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 11901 | 5.515 | ug/l | | 98 |
| 10) Methyl Iodide | 4.007 | 142 | 11197 | 4.660 | ug/l | | 98 |
| 11) Tert butyl alcohol | 4.848 | 59 | 7794 | 12.197 | ug/l | # | 86 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 11147 | 5.324 | ug/l | | 85 |
| 13) Acrolein | 3.659 | 56 | 2720 | 31.444 | ug/l | | 97 |
| 14) Allyl chloride | 4.385 | 41 | 19430 | 5.296 | ug/l | | 98 |
| 15) Acrylonitrile | 5.061 | 53 | 12057 | 23.869 | ug/l | | 98 |
| 16) Acetone | 3.873 | 43 | 14032 | 33.023 | ug/l | | 94 |
| 17) Carbon Disulfide | 4.110 | 76 | 35780 | 5.250 | ug/l | | 97 |
| 18) Methyl Acetate | 4.391 | 43 | 6311 | 5.070 | ug/l | | 98 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 25765 | 4.768 | ug/l | | 93 |
| 20) Methylene Chloride | 4.616 | 84 | 12792 | 5.624 | ug/l | | 97 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 11813 | 5.030 | ug/l | | 93 |
| 22) Diisopropyl ether | 6.019 | 45 | 37011 | 4.970 | ug/l | # | 88 |
| 23) Vinyl Acetate | 5.964 | 43 | 98112 | 23.261 | ug/l | | 98 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 22261 | 5.102 | ug/l | | 96 |
| 25) 2-Butanone | 6.897 | 43 | 19017 | 27.972 | ug/l | | 94 |
| 26) 2,2-Dichloropropane | 6.878 | 77 | 24236 | 5.876 | ug/l | | 93 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 13806 | 5.109 | ug/l | | 93 |
| 28) Bromochloromethane | 7.244 | 49 | 7129 | 4.844 | ug/l | | 96 |
| 29) Tetrahydrofuran | 7.268 | 42 | 9729 | 22.669 | ug/l | | 97 |
| 30) Chloroform | 7.421 | 83 | 34563 | 2.901 | ug/l | | 98 |
| 31) Cyclohexane | 7.707 | 56 | 24108 | 5.779 | ug/l | # | 85 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 20368 | 5.082 | ug/l | | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 17712 | 5.352 | ug/l | | 98 |
| 37) Ethyl Acetate | 6.988 | 43 | 7613 | 4.890 | ug/l | | 96 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 18792 | 5.132 | ug/l | | 96 |
| 39) Methylcyclohexane | 9.110 | 83 | 22745 | 5.273 | ug/l | | 94 |
| 40) Benzene | 8.079 | 78 | 49636 | 5.117 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020619.D
Acq On : 17 Dec 2024 14:51
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:55:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 3782m | 4.595 ug/l | | |
| 42) 1,2-Dichloroethane | 8.159 | 62 | 12917 | 5.020 ug/l | | 95 |
| 43) Isopropyl Acetate | 8.195 | 43 | 13361 | 4.533 ug/l | # | 86 |
| 44) Trichloroethene | 8.866 | 130 | 12384 | 5.195 ug/l | | 88 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 11378 | 5.019 ug/l | | 96 |
| 46) Dibromomethane | 9.231 | 93 | 5965 | 4.978 ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 16115 | 4.979 ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 6545 | 4.671 ug/l | | 93 |
| 49) 1,4-Dioxane | 9.225 | 88 | 1268 | 92.278 ug/l | # | 82 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 38280 | 24.607 ug/l | | 98 |
| 52) Toluene | 10.170 | 92 | 30294 | 5.025 ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 13747 | 4.558 ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 17025 | 4.764 ug/l | | 95 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 7935 | 5.009 ug/l | | 93 |
| 56) Ethyl methacrylate | 10.439 | 69 | 10000 | 4.351 ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 13754 | 4.870 ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 23872 | 24.686 ug/l | | 100 |
| 59) 2-Hexanone | 10.762 | 43 | 23164 | 23.192 ug/l | | 99 |
| 60) Dibromochloromethane | 10.914 | 129 | 10207 | 4.818 ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 7143 | 4.847 ug/l | | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 11707 | 5.663 ug/l | | 96 |
| 65) Chlorobenzene | 11.445 | 112 | 31674 | 5.154 ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 10526 | 5.009 ug/l | | 94 |
| 67) Ethyl Benzene | 11.518 | 91 | 57861 | 5.103 ug/l | | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 43257 | 10.262 ug/l | | 100 |
| 69) o-Xylene | 11.957 | 106 | 19639 | 4.993 ug/l | | 99 |
| 70) Styrene | 11.969 | 104 | 32495 | 4.945 ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 5762 | 4.877 ug/l | # | 98 |
| 73) Isopropylbenzene | 12.255 | 105 | 53196 | 5.043 ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 10480 | 4.245 ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 8331 | 4.866 ug/l | | 97 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 6432m | 5.167 ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 11774 | 5.124 ug/l | | 98 |
| 78) n-propylbenzene | 12.597 | 91 | 64140 | 5.047 ug/l | | 97 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 36508 | 5.106 ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 43711 | 5.107 ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 2558 | 4.276 ug/l | | 90 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 39447 | 5.318 ug/l | | 98 |
| 83) tert-Butylbenzene | 12.999 | 119 | 38538 | 4.972 ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 41754 | 4.974 ug/l | | 97 |
| 85) sec-Butylbenzene | 13.176 | 105 | 58088 | 5.154 ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 46384 | 4.992 ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 23757 | 5.238 ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 24276 | 5.404 ug/l | | 94 |
| 89) n-Butylbenzene | 13.621 | 91 | 43817 | 4.976 ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 9361 | 5.084 ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.664 | 146 | 20478 | 5.211 ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 1404 | 5.051 ug/l | | 89 |
| 93) 1,2,4-Trichlorobenzene | 14.926 | 180 | 11648 | 4.900 ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 8059 | 5.186 ug/l | | 99 |
| 95) Naphthalene | 15.151 | 128 | 17365 | 4.261 ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 9821 | 4.890 ug/l | | 99 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020619.D
Acq On : 17 Dec 2024 14:51
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:55:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

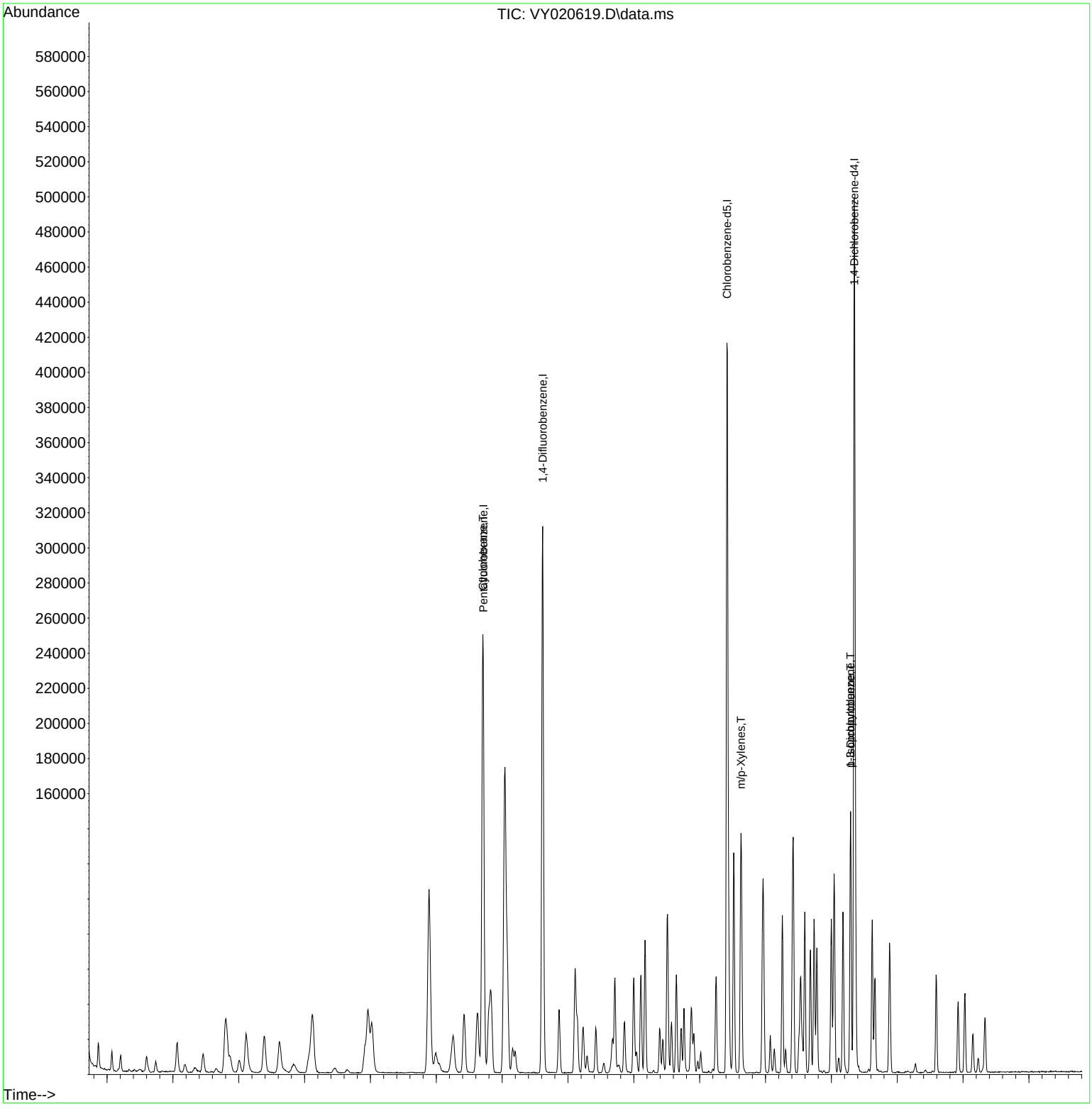
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020619.D
Acq On : 17 Dec 2024 14:51
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 18 04:55:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 173629 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 261652 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 229207 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 127757 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 79812 | 41.971 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 83.940% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 82508 | 44.743 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 89.480% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 297999 | 46.169 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 92.340% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 108522 | 42.982 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 85.960% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 103417 | 47.686 | ug/l | 96 |
| 3) Chloromethane | 2.068 | 50 | 72696 | 45.240 | ug/l | 96 |
| 4) Vinyl Chloride | 2.202 | 62 | 72204 | 48.277 | ug/l | 100 |
| 5) Bromomethane | 2.599 | 94 | 46536 | 48.405 | ug/l | 95 |
| 6) Chloroethane | 2.733 | 64 | 44843 | 48.520 | ug/l | 95 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 147334 | 47.080 | ug/l | 100 |
| 8) Diethyl Ether | 3.458 | 74 | 48299 | 44.007 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 111288 | 49.613 | ug/l | 100 |
| 10) Methyl Iodide | 4.007 | 142 | 125272 | 50.161 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.854 | 59 | 35896 | 166.993 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 109207 | 50.176 | ug/l | 99 |
| 13) Acrolein | 3.653 | 56 | 13043 | 145.056 | ug/l | 95 |
| 14) Allyl chloride | 4.385 | 41 | 194403 | 50.975 | ug/l | 99 |
| 15) Acrylonitrile | 5.055 | 53 | 111135 | 211.661 | ug/l | 99 |
| 16) Acetone | 3.867 | 43 | 128884 | 343.570 | ug/l | 95 |
| 17) Carbon Disulfide | 4.110 | 76 | 357372 | 50.444 | ug/l | 99 |
| 18) Methyl Acetate | 4.385 | 43 | 56965 | 44.029 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 254917 | 45.379 | ug/l | 98 |
| 20) Methylene Chloride | 4.616 | 84 | 110314 | 46.658 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 118791 | 48.656 | ug/l | 96 |
| 22) Diisopropyl ether | 6.019 | 45 | 373306 | 48.223 | ug/l | 96 |
| 23) Vinyl Acetate | 5.964 | 43 | 993429 | 226.581 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 221322 | 48.802 | ug/l | 100 |
| 25) 2-Butanone | 6.897 | 43 | 162705 | 230.232 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 199229 | 46.471 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 135394 | 48.202 | ug/l | 100 |
| 28) Bromochloromethane | 7.244 | 49 | 78629 | 51.402 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 90590 | 203.060 | ug/l | 98 |
| 30) Chloroform | 7.421 | 83 | 227671 | 49.995 | ug/l | 97 |
| 31) Cyclohexane | 7.701 | 56 | 199127 | 45.921 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 203477 | 48.837 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 166171 | 49.418 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 67205 | 42.490 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 185268 | 49.800 | ug/l | 99 |
| 39) Methylcyclohexane | 9.110 | 83 | 214365 | 48.913 | ug/l | 98 |
| 40) Benzene | 8.079 | 78 | 486468 | 49.357 | ug/l | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 39828 | 47.631 ug/l # | 86 |
| 42) 1,2-Dichloroethane | 8.159 | 62 | 122520 | 46.869 ug/l | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 130339 | 43.528 ug/l # | 88 |
| 44) Trichloroethene | 8.866 | 130 | 120014 | 49.555 ug/l | 98 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 112171 | 48.695 ug/l | 98 |
| 46) Dibromomethane | 9.232 | 93 | 56323 | 46.265 ug/l | 99 |
| 47) Bromodichloromethane | 9.421 | 83 | 158529 | 48.208 ug/l | 100 |
| 48) Methyl methacrylate | 9.219 | 41 | 63016 | 44.268 ug/l | 99 |
| 49) 1,4-Dioxane | 9.232 | 88 | 11394 | 816.119 ug/l | 97 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 331396 | 209.670 ug/l | 100 |
| 52) Toluene | 10.170 | 92 | 300584 | 49.073 ug/l | 99 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 146498 | 47.810 ug/l | 98 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 178584 | 49.184 ug/l | 100 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 73962 | 45.952 ug/l | 99 |
| 56) Ethyl methacrylate | 10.439 | 69 | 108638 | 46.525 ug/l | 98 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 134515 | 46.882 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 239347 | 243.610 ug/l | 100 |
| 59) 2-Hexanone | 10.756 | 43 | 240324 | 236.822 ug/l | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 101431 | 47.121 ug/l | 97 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 68798 | 45.952 ug/l | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 106990 | 49.626 ug/l | 94 |
| 65) Chlorobenzene | 11.438 | 112 | 313945 | 48.986 ug/l | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 107564 | 49.083 ug/l | 99 |
| 67) Ethyl Benzene | 11.518 | 91 | 588990 | 49.815 ug/l | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 437108 | 99.430 ug/l | 100 |
| 69) o-Xylene | 11.957 | 106 | 203316 | 49.568 ug/l | 98 |
| 70) Styrene | 11.969 | 104 | 341470 | 49.827 ug/l | 99 |
| 71) Bromoform | 12.133 | 173 | 56002 | 45.451 ug/l # | 100 |
| 73) Isopropylbenzene | 12.255 | 105 | 556414 | 49.908 ug/l | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 118269 | 45.328 ug/l | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 81117 | 44.824 ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 60828m | 45.834 ug/l | |
| 77) Bromobenzene | 12.536 | 156 | 117217 | 48.267 ug/l | 99 |
| 78) n-propylbenzene | 12.597 | 91 | 668577 | 49.775 ug/l | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 375047 | 49.628 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 452266 | 49.995 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 28650 | 45.313 ug/l | 99 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 383617 | 48.929 ug/l | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 405285 | 49.469 ug/l | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 442582 | 49.877 ug/l | 100 |
| 85) sec-Butylbenzene | 13.176 | 105 | 589060 | 49.451 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 492898 | 50.187 ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 233241 | 48.653 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 227374 | 47.888 ug/l | 100 |
| 89) n-Butylbenzene | 13.621 | 91 | 472143 | 50.725 ug/l | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 96035 | 49.342 ug/l | 100 |
| 91) 1,2-Dichlorobenzene | 13.658 | 146 | 200049 | 48.162 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 12169 | 41.418 ug/l | 97 |
| 93) 1,2,4-Trichlorobenzene | 14.926 | 180 | 124084 | 49.388 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 84375 | 51.372 ug/l | 99 |
| 95) Naphthalene | 15.145 | 128 | 199622 | 46.344 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 103298 | 48.662 ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

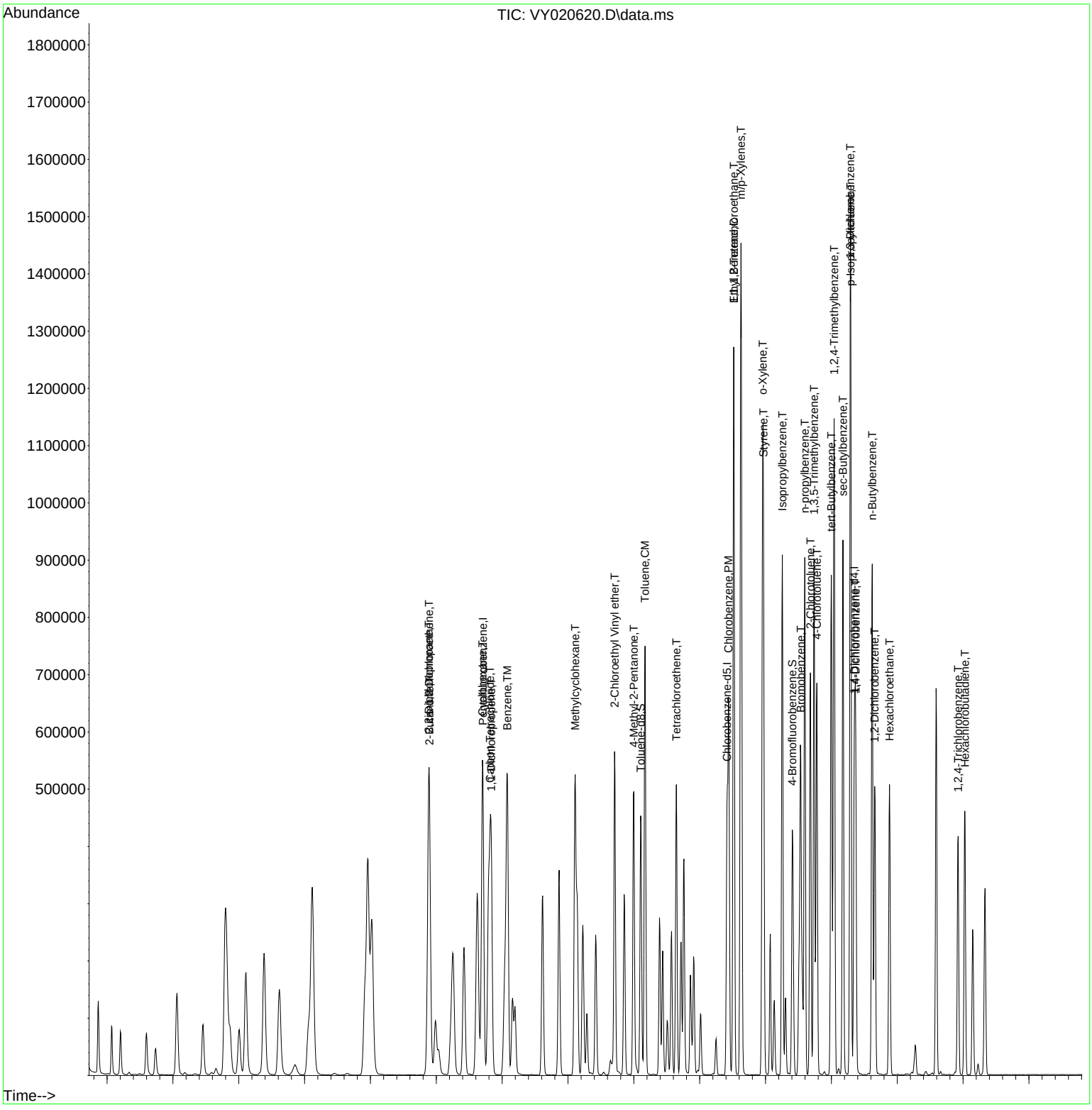
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 103 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.625 | 0.596 | 4.6 | 99 | 0.00 |
| 3 | P | Chloromethane | 0.463 | 0.419 | 9.5 | 100 | 0.00 |
| 4 | C | Vinyl Chloride | 0.431 | 0.416 | 3.5# | 115 | 0.00 |
| 5 | T | Bromomethane | 0.277 | 0.268 | 3.2 | 120 | 0.00 |
| 6 | T | Chloroethane | 0.266 | 0.258 | 3.0 | 125 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.901 | 0.849 | 5.8 | 110 | 0.00 |
| 8 | T | Diethyl Ether | 0.316 | 0.278 | 12.0 | 98 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.646 | 0.641 | 0.8 | 109 | 0.00 |
| 10 | T | Methyl Iodide | 0.719 | 0.721 | -0.3 | 107 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.071 | 0.041 | 42.3# | 84 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.627 | 0.629 | -0.3# | 109 | 0.00 |
| 13 | T | Acrolein | 0.026 | 0.015 | 42.3# | 89 | 0.00 |
| 14 | T | Allyl chloride | 1.098 | 1.120 | -2.0 | 112 | 0.00 |
| 15 | T | Acrylonitrile | 0.151 | 0.128 | 15.2 | 85 | 0.00 |
| 16 | T | Acetone | 0.125 | 0.148 | -18.4 | 155# | 0.00 |
| 17 | T | Carbon Disulfide | 2.040 | 2.058 | -0.9 | 109 | 0.00 |
| 18 | T | Methyl Acetate | 0.373 | 0.328 | 12.1 | 96 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.618 | 1.468 | 9.3 | 91 | 0.00 |
| 20 | T | Methylene Chloride | 0.681 | 0.635 | 6.8 | 106 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.703 | 0.684 | 2.7 | 99 | 0.00 |
| 22 | T | Diisopropyl ether | 2.229 | 2.150 | 3.5 | 96 | 0.00 |
| 23 | T | Vinyl Acetate | 1.263 | 1.144 | 9.4 | 89 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.306 | 1.275 | 2.4 | 99 | 0.00 |
| 25 | T | 2-Butanone | 0.204 | 0.187 | 8.3 | 97 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.235 | 1.147 | 7.1 | 99 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.809 | 0.780 | 3.6 | 98 | 0.00 |
| 28 | T | Bromochloromethane | 0.441 | 0.453 | -2.7 | 94 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.128 | 0.104 | 18.8 | 81 | 0.00 |
| 30 | C | Chloroform | 1.528 | 1.311 | 14.2# | 98 | 0.00 |
| 31 | T | Cyclohexane | 1.249 | 1.147 | 8.2 | 98 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.200 | 1.172 | 2.3 | 100 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.548 | 0.460 | 16.1 | 83 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.352 | 0.315 | 10.5 | 87 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.643 | 0.635 | 1.2 | 99 | 0.00 |
| 37 | T | Ethyl Acetate | 0.302 | 0.257 | 14.9 | 86 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.711 | 0.708 | 0.4 | 101 | 0.00 |
| 39 | T | Methylcyclohexane | 0.837 | 0.819 | 2.2 | 98 | 0.00 |
| 40 | TM | Benzene | 1.883 | 1.859 | 1.3 | 99 | 0.00 |
| 41 | T | Methacrylonitrile | 0.160 | 0.152 | 5.0 | 98 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.500 | 0.468 | 6.4 | 93 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.572 | 0.498 | 12.9 | 85 | 0.00 |
| 44 | TM | Trichloroethene | 0.463 | 0.459 | 0.9 | 100 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.440 | 0.429 | 2.5# | 98 | 0.00 |
| 46 | T | Dibromomethane | 0.233 | 0.215 | 7.7 | 93 | 0.00 |
| 47 | T | Bromodichloromethane | 0.628 | 0.606 | 3.5 | 95 | 0.00 |
| 48 | T | Methyl methacrylate | 0.272 | 0.241 | 11.4 | 87 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.003 | 0.002 | 33.3# | 81 | 0.00 |
| 50 | S | Toluene-d8 | 1.233 | 1.139 | 7.6 | 89 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.302 | 0.253 | 16.2 | 84 | 0.00 |
| 52 | CM | Toluene | 1.170 | 1.149 | 1.8# | 98 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.586 | 0.560 | 4.4 | 92 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.694 | 0.683 | 1.6 | 96 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.308 | 0.283 | 8.1 | 93 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.446 | 0.415 | 7.0 | 90 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.548 | 0.514 | 6.2 | 92 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.188 | 0.183 | 2.7 | 106 | 0.00 |
| 59 | T | 2-Hexanone | 0.194 | 0.184 | 5.2 | 92 | 0.00 |
| 60 | T | Dibromochloromethane | 0.411 | 0.388 | 5.6 | 92 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.286 | 0.263 | 8.0 | 91 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.482 | 0.415 | 13.9 | 86 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 64 | T | Tetrachloroethene | 0.470 | 0.467 | 0.6 | 101 | 0.00 |
| 65 | PM | Chlorobenzene | 1.398 | 1.370 | 2.0 | 97 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.478 | 0.469 | 1.9 | 97 | 0.00 |
| 67 | C | Ethyl Benzene | 2.579 | 2.570 | 0.3# | 98 | 0.00 |
| 68 | T | m/p-Xylenes | 0.959 | 0.954 | 0.5 | 98 | 0.00 |
| 69 | T | o-Xylene | 0.895 | 0.887 | 0.9 | 97 | 0.00 |
| 70 | T | Styrene | 1.495 | 1.490 | 0.3 | 97 | 0.00 |
| 71 | P | Bromoform | 0.269 | 0.244 | 9.3 | 89 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 73 | T | Isopropylbenzene | 4.363 | 4.355 | 0.2 | 98 | 0.00 |
| 74 | T | N-amyl acetate | 1.021 | 0.926 | 9.3 | 85 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.708 | 0.635 | 10.3 | 88 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.519 | 0.476 | 8.3 | 90 | 0.00 |
| 77 | T | Bromobenzene | 0.950 | 0.917 | 3.5 | 95 | 0.00 |
| 78 | T | n-propylbenzene | 5.257 | 5.233 | 0.5 | 97 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.958 | 2.936 | 0.7 | 98 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.540 | 3.540 | 0.0 | 98 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.247 | 0.224 | 9.3 | 86 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.068 | 3.003 | 2.1 | 96 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.206 | 3.172 | 1.1 | 97 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.473 | 3.464 | 0.3 | 96 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.662 | 4.611 | 1.1 | 97 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.844 | 3.858 | -0.4 | 97 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.876 | 1.826 | 2.7 | 96 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.858 | 1.780 | 4.2 | 95 | 0.00 |
| 89 | T | n-Butylbenzene | 3.643 | 3.696 | -1.5 | 97 | 0.00 |
| 90 | T | Hexachloroethane | 0.762 | 0.752 | 1.3 | 97 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.626 | 1.566 | 3.7 | 96 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.115 | 0.095 | 17.4 | 83 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.983 | 0.971 | 1.2 | 94 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.643 | 0.660 | -2.6 | 99 | 0.00 |
| 95 | T | Naphthalene | 1.686 | 1.563 | 7.3 | 87 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.831 | 0.809 | 2.6 | 92 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 103 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 47.686 | 4.6 | 99 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 45.240 | 9.5 | 100 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 48.277 | 3.4# | 115 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 48.405 | 3.2 | 120 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 48.520 | 3.0 | 125 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 47.080 | 5.8 | 110 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 44.007 | 12.0 | 98 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 49.613 | 0.8 | 109 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 50.161 | -0.3 | 107 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 166.993 | 33.2# | 84 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 50.176 | -0.4# | 109 | 0.00 |
| 13 | T | Acrolein | 250.000 | 145.056 | 42.0# | 89 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 50.975 | -2.0 | 112 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 211.661 | 15.3 | 85 | 0.00 |
| 16 | T | Acetone | 250.000 | 343.570 | -37.4# | 155 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 50.444 | -0.9 | 109 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 44.029 | 11.9 | 96 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 45.379 | 9.2 | 91 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 46.658 | 6.7 | 106 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 48.656 | 2.7 | 99 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 48.223 | 3.6 | 96 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 226.581 | 9.4 | 89 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 48.802 | 2.4 | 99 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 230.232 | 7.9 | 97 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 46.471 | 7.1 | 99 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 48.202 | 3.6 | 98 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 51.402 | -2.8 | 94 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 203.060 | 18.8 | 81 | 0.00 |
| 30 | C | Chloroform | 50.000 | 49.995 | 0.0# | 98 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 45.921 | 8.2 | 98 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 48.837 | 2.3 | 100 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 41.971 | 16.1 | 83 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 99 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 44.743 | 10.5 | 87 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 49.418 | 1.2 | 99 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 42.490 | 15.0 | 86 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 49.800 | 0.4 | 101 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 48.913 | 2.2 | 98 | 0.00 |
| 40 | TM | Benzene | 50.000 | 49.357 | 1.3 | 99 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 47.631 | 4.7 | 98 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 46.869 | 6.3 | 93 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 43.528 | 12.9 | 85 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 49.555 | 0.9 | 100 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 48.695 | 2.6# | 98 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 46.265 | 7.5 | 93 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 48.208 | 3.6 | 95 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 44.268 | 11.5 | 87 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 816.119 | 18.4 | 81 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 46.169 | 7.7 | 89 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 209.670 | 16.1 | 84 | 0.00 |
| 52 | CM | Toluene | 50.000 | 49.073 | 1.9# | 98 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 47.810 | 4.4 | 92 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 49.184 | 1.6 | 96 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 45.952 | 8.1 | 93 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 46.525 | 7.0 | 90 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 46.882 | 6.2 | 92 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 243.610 | 2.6 | 106 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 236.822 | 5.3 | 92 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 47.121 | 5.8 | 92 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 45.952 | 8.1 | 91 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 42.982 | 14.0 | 86 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 98 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 49.626 | 0.7 | 101 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 48.986 | 2.0 | 97 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 49.083 | 1.8 | 97 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 49.815 | 0.4# | 98 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 99.430 | 0.6 | 98 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 49.568 | 0.9 | 97 | 0.00 |
| 70 | T | Styrene | 50.000 | 49.827 | 0.3 | 97 | 0.00 |
| 71 | P | Bromoform | 50.000 | 45.451 | 9.1 | 89 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 98 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 49.908 | 0.2 | 98 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 45.328 | 9.3 | 85 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 44.824 | 10.4 | 88 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 45.834 | 8.3 | 90 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 48.267 | 3.5 | 95 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 49.775 | 0.5 | 97 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 49.628 | 0.7 | 98 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 49.995 | 0.0 | 98 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 45.313 | 9.4 | 86 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 48.929 | 2.1 | 96 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 49.469 | 1.1 | 97 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 49.877 | 0.2 | 96 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 49.451 | 1.1 | 97 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 50.187 | -0.4 | 97 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 48.653 | 2.7 | 96 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 47.888 | 4.2 | 95 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 50.725 | -1.5 | 97 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 49.342 | 1.3 | 97 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 48.162 | 3.7 | 96 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 41.418 | 17.2 | 83 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 49.388 | 1.2 | 94 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 51.372 | -2.7 | 99 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 46.344 | 7.3 | 87 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 48.662 | 2.7 | 92 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VY020624.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG No.: P5277

Instrument ID: MSVOA_Y Calibration Date/Time: 12/18/2024 10:06

Lab File ID: VY020624.D Init. Calib. Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:01 14:51

GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 0.809 | 0.885 | | 9.39 | 20 |
| 1,1,1-Trichloroethane | 1.200 | 1.333 | | 11.08 | 20 |
| Benzene | 1.883 | 2.047 | | 8.71 | 20 |
| Trichloroethene | 0.463 | 0.501 | | 8.21 | 20 |
| Toluene | 1.170 | 1.284 | | 9.74 | 20 |
| Ethyl Benzene | 2.579 | 2.891 | | 12.1 | 20 |
| m/p-Xylenes | 0.959 | 1.067 | | 11.26 | 20 |
| o-Xylene | 0.895 | 1.001 | | 11.84 | 20 |
| Isopropylbenzene | 4.363 | 4.981 | | 14.16 | 20 |
| 1,2-Dichloroethane-d4 | 0.548 | 0.514 | | -6.2 | 20 |
| Dibromofluoromethane | 0.352 | 0.333 | | -5.4 | 20 |
| Toluene-d8 | 1.233 | 1.198 | | -2.84 | 20 |
| 4-Bromofluorobenzene | 0.482 | 0.430 | | -10.79 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020624.D
Acq On : 18 Dec 2024 10:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 18 14:20:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 168319 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 264221 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 226779 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 124266 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 86558 | 46.954 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 93.900% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 87855 | 47.179 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 94.360% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 316621 | 48.577 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 97.160% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 113536 | 44.531 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 89.060% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 112318 | 53.424 | ug/l | 97 |
| 3) Chloromethane | 2.074 | 50 | 91060 | 58.456 | ug/l | 100 |
| 4) Vinyl Chloride | 2.208 | 62 | 86513 | 59.670 | ug/l | 98 |
| 5) Bromomethane | 2.605 | 94 | 53404 | 57.301 | ug/l | 98 |
| 6) Chloroethane | 2.739 | 64 | 54831 | 61.198 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.068 | 101 | 165137 | 54.433 | ug/l | 98 |
| 8) Diethyl Ether | 3.458 | 74 | 55435 | 52.102 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 122111 | 56.155 | ug/l | 99 |
| 10) Methyl Iodide | 4.013 | 142 | 142447 | 58.838 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.872 | 59 | 42696 | 215.219 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 118244 | 56.042 | ug/l | 99 |
| 13) Acrolein | 3.659 | 56 | 18414 | 211.249 | ug/l | 99 |
| 14) Allyl chloride | 4.391 | 41 | 211903 | 57.316 | ug/l | 99 |
| 15) Acrylonitrile | 5.068 | 53 | 133405 | 262.091 | ug/l | 99 |
| 16) Acetone | 3.873 | 43 | 96362 | 263.467 | ug/l | 99 |
| 17) Carbon Disulfide | 4.110 | 76 | 390399 | 56.844 | ug/l | 100 |
| 18) Methyl Acetate | 4.391 | 43 | 68126 | 54.317 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 296740 | 54.490 | ug/l | 99 |
| 20) Methylene Chloride | 4.622 | 84 | 122238 | 53.332 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 131418 | 55.526 | ug/l | 96 |
| 22) Diisopropyl ether | 6.025 | 45 | 419889 | 55.951 | ug/l | 99 |
| 23) Vinyl Acetate | 5.964 | 43 | 1169883 | 275.244 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 244246 | 55.556 | ug/l | 98 |
| 25) 2-Butanone | 6.896 | 43 | 169240 | 247.034 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 219802 | 52.887 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 149031 | 54.730 | ug/l | 100 |
| 28) Bromochloromethane | 7.250 | 49 | 88572 | 59.728 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.268 | 42 | 113384 | 262.171 | ug/l | 100 |
| 30) Chloroform | 7.427 | 83 | 250397 | 57.517 | ug/l | 98 |
| 31) Cyclohexane | 7.707 | 56 | 221311 | 52.647 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 224446 | 55.569 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 182759 | 53.823 | ug/l | 99 |
| 37) Ethyl Acetate | 6.988 | 43 | 80664 | 50.503 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 204938 | 54.551 | ug/l | 97 |
| 39) Methylcyclohexane | 9.109 | 83 | 237543 | 53.675 | ug/l | 98 |
| 40) Benzene | 8.085 | 78 | 540984 | 54.354 | ug/l | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020624.D
Acq On : 18 Dec 2024 10:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 18 14:20:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 44038 | 52.153 | ug/l | # | 91 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 141108 | 53.455 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 159807 | 52.850 | ug/l | | 99 |
| 44) Trichloroethene | 8.866 | 130 | 132352 | 54.118 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 125765 | 54.066 | ug/l | | 96 |
| 46) Dibromomethane | 9.231 | 93 | 64580 | 52.532 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.426 | 83 | 179372 | 54.016 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 77215 | 53.715 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.231 | 88 | 14022 | 994.589 | ug/l | | 92 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 404285 | 253.299 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 339344 | 54.863 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 170796 | 55.198 | ug/l | | 96 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 202649 | 55.269 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 85539 | 52.628 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.438 | 69 | 129721 | 55.014 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 156953 | 54.170 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 256343 | 258.372 | ug/l | | 99 |
| 59) 2-Hexanone | 10.762 | 43 | 269419 | 262.911 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.914 | 129 | 117491 | 54.051 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 80970 | 53.556 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 116607 | 54.665 | ug/l | | 97 |
| 65) Chlorobenzene | 11.444 | 112 | 357020 | 56.304 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 121601 | 56.082 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.518 | 91 | 655644 | 56.046 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.627 | 106 | 483989 | 111.272 | ug/l | | 100 |
| 69) o-Xylene | 11.957 | 106 | 227073 | 55.953 | ug/l | | 98 |
| 70) Styrene | 11.969 | 104 | 380019 | 56.046 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 66448 | 54.507 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 619007 | 57.082 | ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 142658 | 56.212 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 95566 | 54.292 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 74171m | 57.458 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 129556 | 54.846 | ug/l | | 98 |
| 78) n-propylbenzene | 12.597 | 91 | 736385 | 56.363 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 413534 | 56.258 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 495961 | 56.365 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 35174 | 57.195 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 426293 | 55.900 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.999 | 119 | 443445 | 55.648 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 486708 | 56.391 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.176 | 105 | 646469 | 55.795 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 537317 | 56.247 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 255653 | 54.826 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 251527 | 54.463 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.621 | 91 | 513421 | 56.710 | ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 105978 | 55.981 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.664 | 146 | 221550 | 54.837 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 14761 | 51.651 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 14.926 | 180 | 139170 | 56.949 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 91388 | 57.205 | ug/l | | 99 |
| 95) Naphthalene | 15.151 | 128 | 241249 | 57.582 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 117769 | 57.038 | ug/l | | 100 |

Sample Results: **VY020624.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020624.D
Acq On : 18 Dec 2024 10:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 18 14:20:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **VY020624.D**

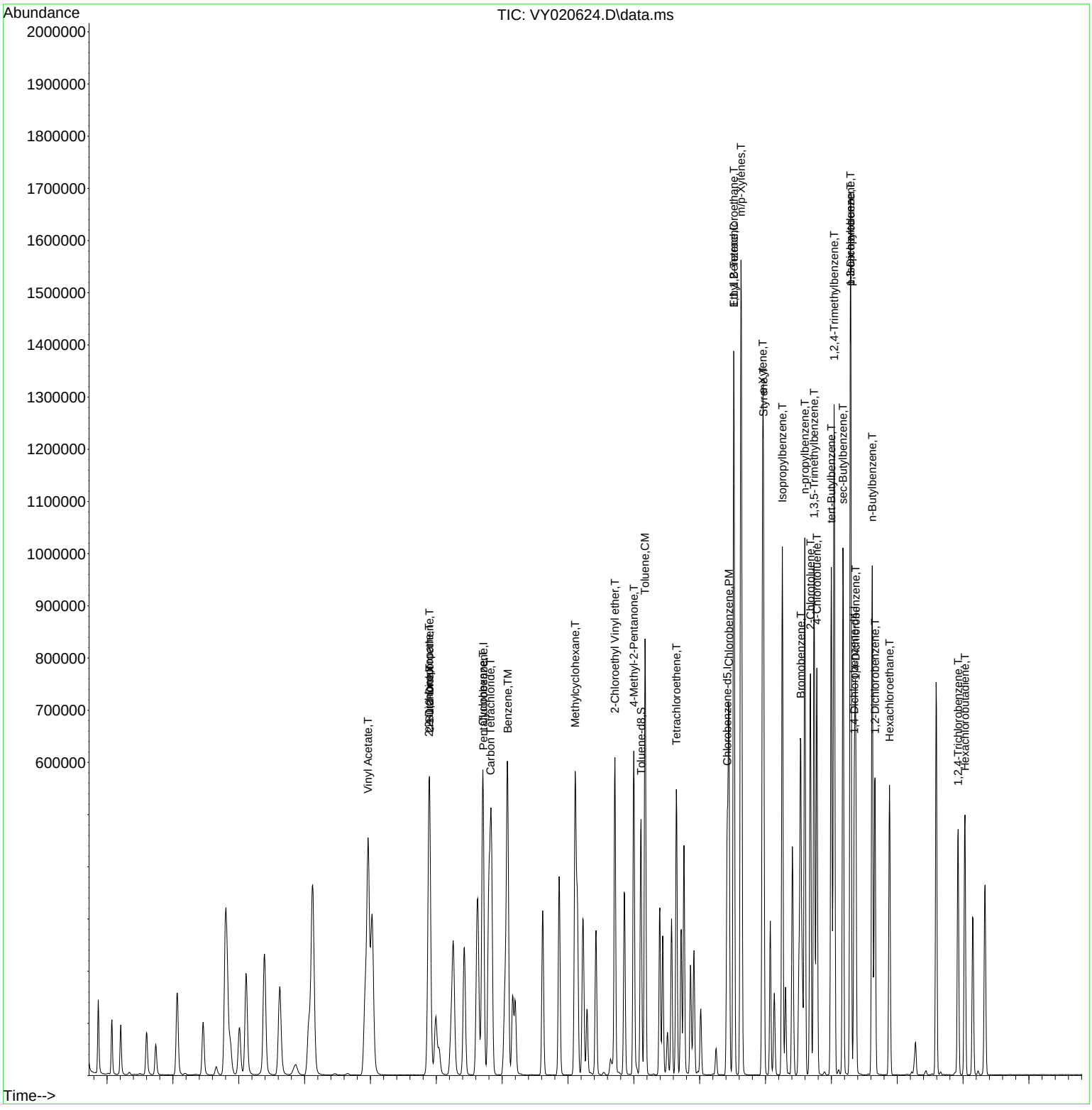
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020624.D
Acq On : 18 Dec 2024 10:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 18 14:20:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024



Sample Results: **VY020624.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020624.D
Acq On : 18 Dec 2024 10:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 18 14:20:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.625 | 0.667 | -6.7 | 107 | 0.00 |
| 3 | P | Chloromethane | 0.463 | 0.541 | -16.8 | 126 | 0.00 |
| 4 | C | Vinyl Chloride | 0.431 | 0.514 | -19.3# | 138 | 0.00 |
| 5 | T | Bromomethane | 0.277 | 0.317 | -14.4 | 138 | 0.00 |
| 6 | T | Chloroethane | 0.266 | 0.326 | -22.6 | 153# | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.901 | 0.981 | -8.9 | 123 | 0.00 |
| 8 | T | Diethyl Ether | 0.316 | 0.329 | -4.1 | 113 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.646 | 0.725 | -12.2 | 120 | 0.00 |
| 10 | T | Methyl Iodide | 0.719 | 0.846 | -17.7 | 122 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.071 | 0.051 | 28.2# | 100 | 0.01 |
| 12 | CM | 1,1-Dichloroethene | 0.627 | 0.702 | -12.0# | 119 | 0.00 |
| 13 | T | Acrolein | 0.026 | 0.022 | 15.4 | 126 | 0.00 |
| 14 | T | Allyl chloride | 1.098 | 1.259 | -14.7 | 122 | 0.00 |
| 15 | T | Acrylonitrile | 0.151 | 0.159 | -5.3 | 102 | 0.01 |
| 16 | T | Acetone | 0.125 | 0.114 | 8.8 | 116 | 0.00 |
| 17 | T | Carbon Disulfide | 2.040 | 2.319 | -13.7 | 119 | 0.00 |
| 18 | T | Methyl Acetate | 0.373 | 0.405 | -8.6 | 115 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.618 | 1.763 | -9.0 | 105 | 0.00 |
| 20 | T | Methylene Chloride | 0.681 | 0.726 | -6.6 | 117 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.703 | 0.781 | -11.1 | 109 | 0.00 |
| 22 | T | Diisopropyl ether | 2.229 | 2.495 | -11.9 | 108 | 0.00 |
| 23 | T | Vinyl Acetate | 1.263 | 1.390 | -10.1 | 105 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.306 | 1.451 | -11.1 | 109 | 0.00 |
| 25 | T | 2-Butanone | 0.204 | 0.201 | 1.5 | 101 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.235 | 1.306 | -5.7 | 110 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.809 | 0.885 | -9.4 | 108 | 0.00 |
| 28 | T | Bromochloromethane | 0.441 | 0.526 | -19.3 | 106 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.128 | 0.135 | -5.5 | 101 | 0.00 |
| 30 | C | Chloroform | 1.528 | 1.488 | 2.6# | 107 | 0.00 |
| 31 | T | Cyclohexane | 1.249 | 1.315 | -5.3 | 109 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.200 | 1.333 | -11.1 | 111 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.548 | 0.514 | 6.2 | 90 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.352 | 0.333 | 5.4 | 93 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.643 | 0.692 | -7.6 | 109 | 0.00 |
| 37 | T | Ethyl Acetate | 0.302 | 0.305 | -1.0 | 103 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.711 | 0.776 | -9.1 | 111 | 0.00 |
| 39 | T | Methylcyclohexane | 0.837 | 0.899 | -7.4 | 108 | 0.00 |
| 40 | TM | Benzene | 1.883 | 2.047 | -8.7 | 111 | 0.00 |
| 41 | T | Methacrylonitrile | 0.160 | 0.167 | -4.4 | 109 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.500 | 0.534 | -6.8 | 107 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.572 | 0.605 | -5.8 | 104 | 0.00 |
| 44 | TM | Trichloroethene | 0.463 | 0.501 | -8.2 | 110 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.440 | 0.476 | -8.2# | 110 | 0.00 |
| 46 | T | Dibromomethane | 0.233 | 0.244 | -4.7 | 106 | 0.00 |
| 47 | T | Bromodichloromethane | 0.628 | 0.679 | -8.1 | 108 | 0.00 |
| 48 | T | Methyl methacrylate | 0.272 | 0.292 | -7.4 | 106 | 0.00 |

Sample Results: **VY020624.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020624.D
Acq On : 18 Dec 2024 10:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 18 14:20:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.003 | 0.003 | 0.0 | 100 | 0.00 |
| 50 | S | Toluene-d8 | 1.233 | 1.198 | 2.8 | 95 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.302 | 0.306 | -1.3 | 103 | 0.00 |
| 52 | CM | Toluene | 1.170 | 1.284 | -9.7# | 111 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.586 | 0.646 | -10.2 | 108 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.694 | 0.767 | -10.5 | 109 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.308 | 0.324 | -5.2 | 107 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.446 | 0.491 | -10.1 | 107 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.548 | 0.594 | -8.4 | 107 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.188 | 0.194 | -3.2 | 113 | 0.00 |
| 59 | T | 2-Hexanone | 0.194 | 0.204 | -5.2 | 103 | 0.00 |
| 60 | T | Dibromochloromethane | 0.411 | 0.445 | -8.3 | 106 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.286 | 0.306 | -7.0 | 107 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.482 | 0.430 | 10.8 | 90 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 97 | 0.00 |
| 64 | T | Tetrachloroethene | 0.470 | 0.514 | -9.4 | 110 | 0.00 |
| 65 | PM | Chlorobenzene | 1.398 | 1.574 | -12.6 | 111 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.478 | 0.536 | -12.1 | 109 | 0.00 |
| 67 | C | Ethyl Benzene | 2.579 | 2.891 | -12.1# | 109 | 0.00 |
| 68 | T | m/p-Xylenes | 0.959 | 1.067 | -11.3 | 108 | 0.00 |
| 69 | T | o-Xylene | 0.895 | 1.001 | -11.8 | 108 | 0.00 |
| 70 | T | Styrene | 1.495 | 1.676 | -12.1 | 108 | 0.00 |
| 71 | P | Bromoform | 0.269 | 0.293 | -8.9 | 105 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 73 | T | Isopropylbenzene | 4.363 | 4.981 | -14.2 | 109 | 0.00 |
| 74 | T | N-amyl acetate | 1.021 | 1.148 | -12.4 | 103 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.708 | 0.769 | -8.6 | 103 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.519 | 0.597 | -15.0 | 109 | 0.00 |
| 77 | T | Bromobenzene | 0.950 | 1.043 | -9.8 | 105 | 0.00 |
| 78 | T | n-propylbenzene | 5.257 | 5.926 | -12.7 | 107 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.958 | 3.328 | -12.5 | 108 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.540 | 3.991 | -12.7 | 107 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.247 | 0.283 | -14.6 | 105 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.068 | 3.430 | -11.8 | 107 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.206 | 3.569 | -11.3 | 106 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.473 | 3.917 | -12.8 | 106 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.662 | 5.202 | -11.6 | 106 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.844 | 4.324 | -12.5 | 105 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.876 | 2.057 | -9.6 | 105 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.858 | 2.024 | -8.9 | 106 | 0.00 |
| 89 | T | n-Butylbenzene | 3.643 | 4.132 | -13.4 | 105 | 0.00 |
| 90 | T | Hexachloroethane | 0.762 | 0.853 | -11.9 | 107 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.626 | 1.783 | -9.7 | 106 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.115 | 0.119 | -3.5 | 100 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.983 | 1.120 | -13.9 | 106 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.643 | 0.735 | -14.3 | 107 | 0.00 |
| 95 | T | Naphthalene | 1.686 | 1.941 | -15.1 | 105 | 0.00 |

Sample Results: **VY020624.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020624.D
Acq On : 18 Dec 2024 10:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 18 14:20:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.831 | 0.948 | -14.1 | 105 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VY020624.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020624.D
Acq On : 18 Dec 2024 10:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 18 14:20:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 99 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 53.424 | -6.8 | 107 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 58.456 | -16.9 | 126 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 59.670 | -19.3# | 138 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 57.301 | -14.6 | 138 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 61.198 | -22.4 | 153 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 54.433 | -8.9 | 123 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 52.102 | -4.2 | 113 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 56.155 | -12.3 | 120 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 58.838 | -17.7 | 122 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 215.219 | 13.9 | 100 | 0.01 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 56.042 | -12.1# | 119 | 0.00 |
| 13 | T | Acrolein | 250.000 | 211.249 | 15.5 | 126 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 57.316 | -14.6 | 122 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 262.091 | -4.8 | 102 | 0.01 |
| 16 | T | Acetone | 250.000 | 263.467 | -5.4 | 116 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 56.844 | -13.7 | 119 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 54.317 | -8.6 | 115 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 54.490 | -9.0 | 105 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 53.332 | -6.7 | 117 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 55.526 | -11.1 | 109 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 55.951 | -11.9 | 108 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 275.244 | -10.1 | 105 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 55.556 | -11.1 | 109 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 247.034 | 1.2 | 101 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 52.887 | -5.8 | 110 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 54.730 | -9.5 | 108 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 59.728 | -19.5 | 106 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 262.171 | -4.9 | 101 | 0.00 |
| 30 | C | Chloroform | 50.000 | 57.517 | -15.0# | 107 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 52.647 | -5.3 | 109 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 55.569 | -11.1 | 111 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 46.954 | 6.1 | 90 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 100 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 47.179 | 5.6 | 93 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 53.823 | -7.6 | 109 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 50.503 | -1.0 | 103 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 54.551 | -9.1 | 111 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 53.675 | -7.3 | 108 | 0.00 |
| 40 | TM | Benzene | 50.000 | 54.354 | -8.7 | 111 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 52.153 | -4.3 | 109 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 53.455 | -6.9 | 107 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 52.850 | -5.7 | 104 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 54.118 | -8.2 | 110 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 54.066 | -8.1# | 110 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 52.532 | -5.1 | 106 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 54.016 | -8.0 | 108 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 53.715 | -7.4 | 106 | 0.00 |

Sample Results: **VY020624.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020624.D
Acq On : 18 Dec 2024 10:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 18 14:20:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 994.589 | 0.5 | 100 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 48.577 | 2.8 | 95 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 253.299 | -1.3 | 103 | 0.00 |
| 52 | CM | Toluene | 50.000 | 54.863 | -9.7# | 111 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 55.198 | -10.4 | 108 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 55.269 | -10.5 | 109 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 52.628 | -5.3 | 107 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 55.014 | -10.0 | 107 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 54.170 | -8.3 | 107 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 258.372 | -3.3 | 113 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 262.911 | -5.2 | 103 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 54.051 | -8.1 | 106 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 53.556 | -7.1 | 107 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 44.531 | 10.9 | 90 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 97 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 54.665 | -9.3 | 110 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 56.304 | -12.6 | 111 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 56.082 | -12.2 | 109 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 56.046 | -12.1# | 109 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 111.272 | -11.3 | 108 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 55.953 | -11.9 | 108 | 0.00 |
| 70 | T | Styrene | 50.000 | 56.046 | -12.1 | 108 | 0.00 |
| 71 | P | Bromoform | 50.000 | 54.507 | -9.0 | 105 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 96 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 57.082 | -14.2 | 109 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 56.212 | -12.4 | 103 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 54.292 | -8.6 | 103 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 57.458 | -14.9 | 109 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 54.846 | -9.7 | 105 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 56.363 | -12.7 | 107 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 56.258 | -12.5 | 108 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 56.365 | -12.7 | 107 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 57.195 | -14.4 | 105 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 55.900 | -11.8 | 107 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 55.648 | -11.3 | 106 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 56.391 | -12.8 | 106 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 55.795 | -11.6 | 106 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 56.247 | -12.5 | 105 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 54.826 | -9.7 | 105 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 54.463 | -8.9 | 106 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 56.710 | -13.4 | 105 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 55.981 | -12.0 | 107 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 54.837 | -9.7 | 106 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.651 | -3.3 | 100 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 56.949 | -13.9 | 106 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 57.205 | -14.4 | 107 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 57.582 | -15.2 | 105 | 0.00 |

Sample Results: **VY020624.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020624.D
Acq On : 18 Dec 2024 10:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 18 14:20:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 57.038 | -14.1 | 105 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG No.: P5277

Instrument ID: MSVOA_Y Calibration Date/Time: 12/19/2024 09:43

Lab File ID: VY020645.D Init. Calib. Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:01 14:51

GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 0.809 | 0.896 | | 10.75 | 20 |
| 1,1,1-Trichloroethane | 1.200 | 1.332 | | 11 | 20 |
| Benzene | 1.883 | 2.108 | | 11.95 | 20 |
| Trichloroethene | 0.463 | 0.532 | | 14.9 | 20 |
| Toluene | 1.170 | 1.319 | | 12.73 | 20 |
| Ethyl Benzene | 2.579 | 2.931 | | 13.65 | 20 |
| m/p-Xylenes | 0.959 | 1.097 | | 14.39 | 20 |
| o-Xylene | 0.895 | 1.028 | | 14.86 | 20 |
| Isopropylbenzene | 4.363 | 5.035 | | 15.4 | 20 |
| 1,2-Dichloroethane-d4 | 0.548 | 0.573 | | 4.56 | 20 |
| Dibromofluoromethane | 0.352 | 0.398 | | 13.07 | 20 |
| Toluene-d8 | 1.233 | 1.381 | | 12 | 20 |
| 4-Bromofluorobenzene | 0.482 | 0.516 | | 7.05 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Sample Results: **VY020645.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121924\
Data File : VY020645.D
Acq On : 19 Dec 2024 09:43
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 00:45:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/20/2024
Supervised By :Semsettin Yesilyurt 12/20/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 206000 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 308825 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 266753 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 146371 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 117960 | 52.284 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 104.560% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 122865 | 56.450 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 112.900% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 426408 | 55.973 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 111.940% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 159346 | 53.472 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 106.940% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 133894 | 52.037 | ug/l | 98 |
| 3) Chloromethane | 2.068 | 50 | 89931 | 47.172 | ug/l | 99 |
| 4) Vinyl Chloride | 2.202 | 62 | 86336 | 48.655 | ug/l | 100 |
| 5) Bromomethane | 2.598 | 94 | 53050 | 46.509 | ug/l | 99 |
| 6) Chloroethane | 2.733 | 64 | 51312 | 46.795 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 187636 | 50.536 | ug/l | 99 |
| 8) Diethyl Ether | 3.452 | 74 | 68568 | 52.658 | ug/l | 93 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 148014 | 55.617 | ug/l | 99 |
| 10) Methyl Iodide | 4.007 | 142 | 167021 | 56.369 | ug/l | 97 |
| 11) Tert butyl alcohol | 4.860 | 59 | 54368 | 225.962 | ug/l # | 91 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 139823 | 54.148 | ug/l | 96 |
| 13) Acrolein | 3.653 | 56 | 17954 | 168.296 | ug/l | 96 |
| 14) Allyl chloride | 4.385 | 41 | 232338 | 51.348 | ug/l | 98 |
| 15) Acrylonitrile | 5.055 | 53 | 170856 | 274.269 | ug/l | 99 |
| 16) Acetone | 3.873 | 43 | 111898 | 249.644 | ug/l | 96 |
| 17) Carbon Disulfide | 4.104 | 76 | 457151 | 54.388 | ug/l | 100 |
| 18) Methyl Acetate | 4.385 | 43 | 78056 | 50.850 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 375333 | 56.315 | ug/l | 97 |
| 20) Methylene Chloride | 4.616 | 84 | 144922 | 51.663 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 162132 | 55.973 | ug/l | 99 |
| 22) Diisopropyl ether | 6.019 | 45 | 496112 | 54.016 | ug/l | 96 |
| 23) Vinyl Acetate | 5.958 | 43 | 1420555 | 273.086 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 298067 | 55.396 | ug/l | 99 |
| 25) 2-Butanone | 6.890 | 43 | 211202 | 251.894 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 264836 | 52.067 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 184657 | 55.409 | ug/l | 97 |
| 28) Bromochloromethane | 7.244 | 49 | 101052 | 55.679 | ug/l | 96 |
| 29) Tetrahydrofuran | 7.262 | 42 | 143510 | 271.132 | ug/l | 97 |
| 30) Chloroform | 7.421 | 83 | 292213 | 54.569 | ug/l | 100 |
| 31) Cyclohexane | 7.701 | 56 | 268423 | 52.174 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 274460 | 55.522 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 225884 | 56.915 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 100446 | 53.805 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 252799 | 57.572 | ug/l | 98 |
| 39) Methylcyclohexane | 9.109 | 83 | 287808 | 55.640 | ug/l | 99 |
| 40) Benzene | 8.079 | 78 | 650927 | 55.955 | ug/l | 100 |

Sample Results: **VY020645.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121924\
Data File : VY020645.D
Acq On : 19 Dec 2024 09:43
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 00:45:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/20/2024
Supervised By :Semsettin Yesilyurt 12/20/2024

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 51462 | 52.143 ug/l | | 94 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 168914 | 54.747 ug/l | | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 195375 | 55.280 ug/l | # | 88 |
| 44) Trichloroethene | 8.866 | 130 | 164213 | 57.447 ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 151671 | 55.786 ug/l | | 96 |
| 46) Dibromomethane | 9.231 | 93 | 80300 | 55.885 ug/l | | 97 |
| 47) Bromodichloromethane | 9.420 | 83 | 217355 | 56.001 ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 93111 | 55.418 ug/l | | 97 |
| 49) 1,4-Dioxane | 9.225 | 88 | 19191 | 1164.626 ug/l | | 96 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 502739 | 269.490 ug/l | | 98 |
| 52) Toluene | 10.170 | 92 | 407430 | 56.356 ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 207340 | 57.330 ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 241551 | 56.364 ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 108487 | 57.107 ug/l | | 97 |
| 56) Ethyl methacrylate | 10.439 | 69 | 162282 | 58.883 ug/l | | 94 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 192310 | 56.787 ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 330296 | 284.827 ug/l | | 98 |
| 59) 2-Hexanone | 10.762 | 43 | 332124 | 277.291 ug/l | | 96 |
| 60) Dibromochloromethane | 10.908 | 129 | 145879 | 57.418 ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 100336 | 56.781 ug/l | | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 143419 | 57.159 ug/l | | 95 |
| 65) Chlorobenzene | 11.438 | 112 | 427986 | 57.381 ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 147222 | 57.723 ug/l | | 98 |
| 67) Ethyl Benzene | 11.518 | 91 | 781876 | 56.821 ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 585329 | 114.405 ug/l | | 100 |
| 69) o-Xylene | 11.950 | 106 | 274190 | 57.438 ug/l | | 99 |
| 70) Styrene | 11.969 | 104 | 462869 | 58.035 ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 84075 | 58.631 ug/l | # | 100 |
| 73) Isopropylbenzene | 12.255 | 105 | 736909 | 57.692 ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 169942 | 56.850 ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 122009 | 58.846 ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 89036m | 58.557 ug/l | | |
| 77) Bromobenzene | 12.530 | 156 | 160597 | 57.720 ug/l | | 98 |
| 78) n-propylbenzene | 12.597 | 91 | 875016 | 56.859 ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 495724 | 57.255 ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 587819 | 56.716 ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 45189 | 62.383 ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 507510 | 56.500 ug/l | | 99 |
| 83) tert-Butylbenzene | 12.999 | 119 | 535639 | 57.066 ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 580706 | 57.121 ug/l | | 98 |
| 85) sec-Butylbenzene | 13.176 | 105 | 765369 | 56.081 ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 641459 | 57.008 ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 311630 | 56.738 ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 303316 | 55.759 ug/l | | 99 |
| 89) n-Butylbenzene | 13.621 | 91 | 600466 | 56.308 ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 126128 | 56.563 ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 268348 | 56.390 ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 18918 | 56.200 ug/l | | 96 |
| 93) 1,2,4-Trichlorobenzene | 14.926 | 180 | 161670 | 56.165 ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 104328 | 55.442 ug/l | | 99 |
| 95) Naphthalene | 15.145 | 128 | 288782 | 58.518 ug/l | | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 136737 | 56.223 ug/l | | 100 |

Sample Results: **VY020645.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121924\
Data File : VY020645.D
Acq On : 19 Dec 2024 09:43
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 00:45:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/20/2024
Supervised By :Semsettin Yesilyurt 12/20/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **VY020645.D**

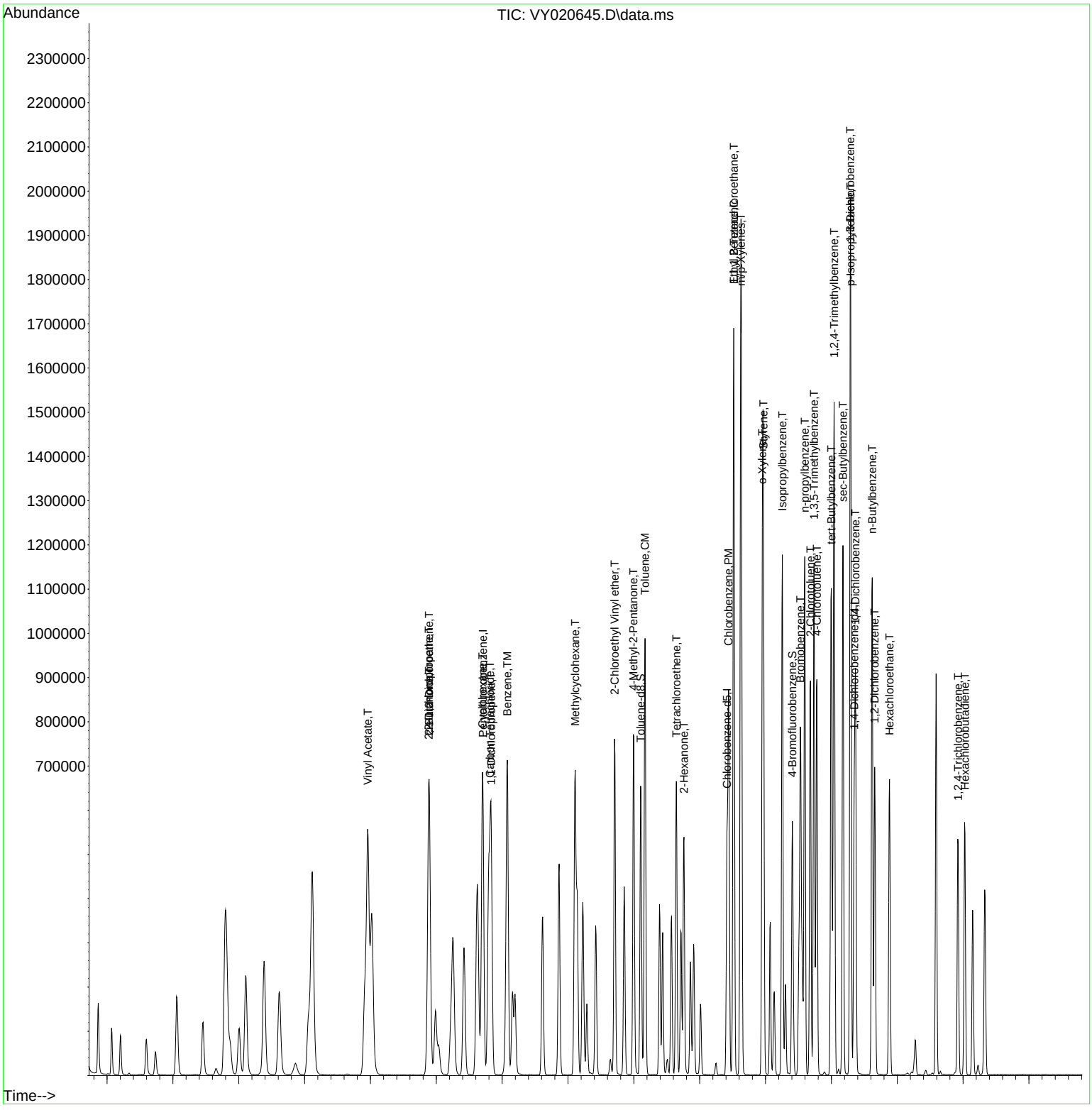
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121924\
Data File : VY020645.D
Acq On : 19 Dec 2024 09:43
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 00:45:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/20/2024
Supervised By :Semsettin Yesilyurt 12/20/2024



Sample Results: **VY020645.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121924\
Data File : VY020645.D
Acq On : 19 Dec 2024 09:43
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 20 00:45:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 122 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.625 | 0.650 | -4.0 | 128 | 0.00 |
| 3 | P | Chloromethane | 0.463 | 0.437 | 5.6 | 124 | 0.00 |
| 4 | C | Vinyl Chloride | 0.431 | 0.419 | 2.8# | 138 | 0.00 |
| 5 | T | Bromomethane | 0.277 | 0.258 | 6.9 | 137 | 0.00 |
| 6 | T | Chloroethane | 0.266 | 0.249 | 6.4 | 143 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.901 | 0.911 | -1.1 | 140 | 0.00 |
| 8 | T | Diethyl Ether | 0.316 | 0.333 | -5.4 | 139 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.646 | 0.719 | -11.3 | 145 | 0.00 |
| 10 | T | Methyl Iodide | 0.719 | 0.811 | -12.8 | 142 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.071 | 0.053 | 25.4# | 127 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.627 | 0.679 | -8.3# | 140 | 0.00 |
| 13 | T | Acrolein | 0.026 | 0.017 | 34.6# | 123 | 0.00 |
| 14 | T | Allyl chloride | 1.098 | 1.128 | -2.7 | 134 | 0.00 |
| 15 | T | Acrylonitrile | 0.151 | 0.166 | -9.9 | 131 | 0.00 |
| 16 | T | Acetone | 0.125 | 0.109 | 12.8 | 134 | 0.00 |
| 17 | T | Carbon Disulfide | 2.040 | 2.219 | -8.8 | 139 | 0.00 |
| 18 | T | Methyl Acetate | 0.373 | 0.379 | -1.6 | 132 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.618 | 1.822 | -12.6 | 133 | 0.00 |
| 20 | T | Methylene Chloride | 0.681 | 0.704 | -3.4 | 139 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.703 | 0.787 | -11.9 | 135 | 0.00 |
| 22 | T | Diisopropyl ether | 2.229 | 2.408 | -8.0 | 128 | 0.00 |
| 23 | T | Vinyl Acetate | 1.263 | 1.379 | -9.2 | 128 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.306 | 1.447 | -10.8 | 133 | 0.00 |
| 25 | T | 2-Butanone | 0.204 | 0.205 | -0.5 | 126 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.235 | 1.286 | -4.1 | 132 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.809 | 0.896 | -10.8 | 134 | 0.00 |
| 28 | T | Bromochloromethane | 0.441 | 0.491 | -11.3 | 121 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.128 | 0.139 | -8.6 | 128 | 0.00 |
| 30 | C | Chloroform | 1.528 | 1.419 | 7.1# | 125 | 0.00 |
| 31 | T | Cyclohexane | 1.249 | 1.303 | -4.3 | 132 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.200 | 1.332 | -11.0 | 135 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.548 | 0.573 | -4.6 | 123 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 117 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.352 | 0.398 | -13.1 | 130 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.643 | 0.731 | -13.7 | 135 | 0.00 |
| 37 | T | Ethyl Acetate | 0.302 | 0.325 | -7.6 | 128 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.711 | 0.819 | -15.2 | 137 | 0.00 |
| 39 | T | Methylcyclohexane | 0.837 | 0.932 | -11.4 | 131 | 0.00 |
| 40 | TM | Benzene | 1.883 | 2.108 | -11.9 | 133 | 0.00 |
| 41 | T | Methacrylonitrile | 0.160 | 0.167 | -4.4 | 127 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.500 | 0.547 | -9.4 | 128 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.572 | 0.633 | -10.7 | 128 | 0.00 |
| 44 | TM | Trichloroethene | 0.463 | 0.532 | -14.9 | 136 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.440 | 0.491 | -11.6# | 133 | 0.00 |
| 46 | T | Dibromomethane | 0.233 | 0.260 | -11.6 | 132 | 0.00 |
| 47 | T | Bromodichloromethane | 0.628 | 0.704 | -12.1 | 131 | 0.00 |
| 48 | T | Methyl methacrylate | 0.272 | 0.302 | -11.0 | 128 | 0.00 |

Sample Results: **VY020645.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121924\
Data File : VY020645.D
Acq On : 19 Dec 2024 09:43
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 20 00:45:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.003 | 0.003 | 0.0 | 136 | 0.00 |
| 50 | S | Toluene-d8 | 1.233 | 1.381 | -12.0 | 127 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.302 | 0.326 | -7.9 | 128 | 0.00 |
| 52 | CM | Toluene | 1.170 | 1.319 | -12.7# | 133 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.586 | 0.671 | -14.5 | 131 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.694 | 0.782 | -12.7 | 130 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.308 | 0.351 | -14.0 | 136 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.446 | 0.525 | -17.7 | 134 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.548 | 0.623 | -13.7 | 132 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.188 | 0.214 | -13.8 | 146 | 0.00 |
| 59 | T | 2-Hexanone | 0.194 | 0.215 | -10.8 | 127 | 0.00 |
| 60 | T | Dibromochloromethane | 0.411 | 0.472 | -14.8 | 132 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.286 | 0.325 | -13.6 | 132 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.482 | 0.516 | -7.1 | 126 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 114 | 0.00 |
| 64 | T | Tetrachloroethene | 0.470 | 0.538 | -14.5 | 135 | 0.00 |
| 65 | PM | Chlorobenzene | 1.398 | 1.604 | -14.7 | 133 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.478 | 0.552 | -15.5 | 133 | 0.00 |
| 67 | C | Ethyl Benzene | 2.579 | 2.931 | -13.6# | 131 | 0.00 |
| 68 | T | m/p-Xylenes | 0.959 | 1.097 | -14.4 | 131 | 0.00 |
| 69 | T | o-Xylene | 0.895 | 1.028 | -14.9 | 130 | 0.00 |
| 70 | T | Styrene | 1.495 | 1.735 | -16.1 | 132 | 0.00 |
| 71 | P | Bromoform | 0.269 | 0.315 | -17.1 | 133 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 113 | 0.00 |
| 73 | T | Isopropylbenzene | 4.363 | 5.035 | -15.4 | 130 | 0.00 |
| 74 | T | N-amyl acetate | 1.021 | 1.161 | -13.7 | 122 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.708 | 0.834 | -17.8 | 132 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.519 | 0.608 | -17.1 | 131 | 0.00 |
| 77 | T | Bromobenzene | 0.950 | 1.097 | -15.5 | 130 | 0.00 |
| 78 | T | n-propylbenzene | 5.257 | 5.978 | -13.7 | 127 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.958 | 3.387 | -14.5 | 130 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.540 | 4.016 | -13.4 | 127 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.247 | 0.309 | -25.1# | 135 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.068 | 3.467 | -13.0 | 128 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.206 | 3.659 | -14.1 | 128 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.473 | 3.967 | -14.2 | 126 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.662 | 5.229 | -12.2 | 125 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.844 | 4.382 | -14.0 | 126 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.876 | 2.129 | -13.5 | 129 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.858 | 2.072 | -11.5 | 127 | 0.00 |
| 89 | T | n-Butylbenzene | 3.643 | 4.102 | -12.6 | 123 | 0.00 |
| 90 | T | Hexachloroethane | 0.762 | 0.862 | -13.1 | 127 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.626 | 1.833 | -12.7 | 128 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.115 | 0.129 | -12.2 | 128 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.983 | 1.105 | -12.4 | 123 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.643 | 0.713 | -10.9 | 122 | 0.00 |
| 95 | T | Naphthalene | 1.686 | 1.973 | -17.0 | 126 | 0.00 |

Sample Results: **VY020645.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121924\
Data File : VY020645.D
Acq On : 19 Dec 2024 09:43
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 20 00:45:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.831 | 0.934 | -12.4 | 122 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VY020645.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121924\
Data File : VY020645.D
Acq On : 19 Dec 2024 09:43
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 20 00:45:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 122 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 52.037 | -4.1 | 128 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 47.172 | 5.7 | 124 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 48.655 | 2.7# | 138 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 46.509 | 7.0 | 137 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 46.795 | 6.4 | 143 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 50.536 | -1.1 | 140 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 52.658 | -5.3 | 139 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 55.617 | -11.2 | 145 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 56.369 | -12.7 | 142 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 225.962 | 9.6 | 127 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 54.148 | -8.3# | 140 | 0.00 |
| 13 | T | Acrolein | 250.000 | 168.296 | 32.7# | 123 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 51.348 | -2.7 | 134 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 274.269 | -9.7 | 131 | 0.00 |
| 16 | T | Acetone | 250.000 | 249.644 | 0.1 | 134 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 54.388 | -8.8 | 139 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 50.850 | -1.7 | 132 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 56.315 | -12.6 | 133 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 51.663 | -3.3 | 139 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 55.973 | -11.9 | 135 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 54.016 | -8.0 | 128 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 273.086 | -9.2 | 128 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 55.396 | -10.8 | 133 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 251.894 | -0.8 | 126 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 52.067 | -4.1 | 132 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 55.409 | -10.8 | 134 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 55.679 | -11.4 | 121 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 271.132 | -8.5 | 128 | 0.00 |
| 30 | C | Chloroform | 50.000 | 54.569 | -9.1# | 125 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 52.174 | -4.3 | 132 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 55.522 | -11.0 | 135 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 52.284 | -4.6 | 123 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 117 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 56.450 | -12.9 | 130 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 56.915 | -13.8 | 135 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 53.805 | -7.6 | 128 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 57.572 | -15.1 | 137 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 55.640 | -11.3 | 131 | 0.00 |
| 40 | TM | Benzene | 50.000 | 55.955 | -11.9 | 133 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 52.143 | -4.3 | 127 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 54.747 | -9.5 | 128 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 55.280 | -10.6 | 128 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 57.447 | -14.9 | 136 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 55.786 | -11.6# | 133 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 55.885 | -11.8 | 132 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 56.001 | -12.0 | 131 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 55.418 | -10.8 | 128 | 0.00 |

Sample Results: **VY020645.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121924\
Data File : VY020645.D
Acq On : 19 Dec 2024 09:43
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 20 00:45:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 1164.626 | -16.5 | 136 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 55.973 | -11.9 | 127 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 269.490 | -7.8 | 128 | 0.00 |
| 52 | CM | Toluene | 50.000 | 56.356 | -12.7# | 133 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 57.330 | -14.7 | 131 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 56.364 | -12.7 | 130 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 57.107 | -14.2 | 136 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 58.883 | -17.8 | 134 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 56.787 | -13.6 | 132 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 284.827 | -13.9 | 146 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 277.291 | -10.9 | 127 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 57.418 | -14.8 | 132 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 56.781 | -13.6 | 132 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 53.472 | -6.9 | 126 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 114 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 57.159 | -14.3 | 135 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 57.381 | -14.8 | 133 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 57.723 | -15.4 | 133 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 56.821 | -13.6# | 131 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 114.405 | -14.4 | 131 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 57.438 | -14.9 | 130 | 0.00 |
| 70 | T | Styrene | 50.000 | 58.035 | -16.1 | 132 | 0.00 |
| 71 | P | Bromoform | 50.000 | 58.631 | -17.3 | 133 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 113 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 57.692 | -15.4 | 130 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 56.850 | -13.7 | 122 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 58.846 | -17.7 | 132 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 58.557 | -17.1 | 131 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 57.720 | -15.4 | 130 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 56.859 | -13.7 | 127 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 57.255 | -14.5 | 130 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 56.716 | -13.4 | 127 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 62.383 | -24.8 | 135 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 56.500 | -13.0 | 128 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 57.066 | -14.1 | 128 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 57.121 | -14.2 | 126 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 56.081 | -12.2 | 125 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 57.008 | -14.0 | 126 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 56.738 | -13.5 | 129 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 55.759 | -11.5 | 127 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 56.308 | -12.6 | 123 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 56.563 | -13.1 | 127 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 56.390 | -12.8 | 128 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 56.200 | -12.4 | 128 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 56.165 | -12.3 | 123 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 55.442 | -10.9 | 122 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 58.518 | -17.0 | 126 | 0.00 |

Sample Results: **VY020645.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121924\
Data File : VY020645.D
Acq On : 19 Dec 2024 09:43
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 20 00:45:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 56.223 | -12.4 | 122 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

# QC SAMPLE DATA

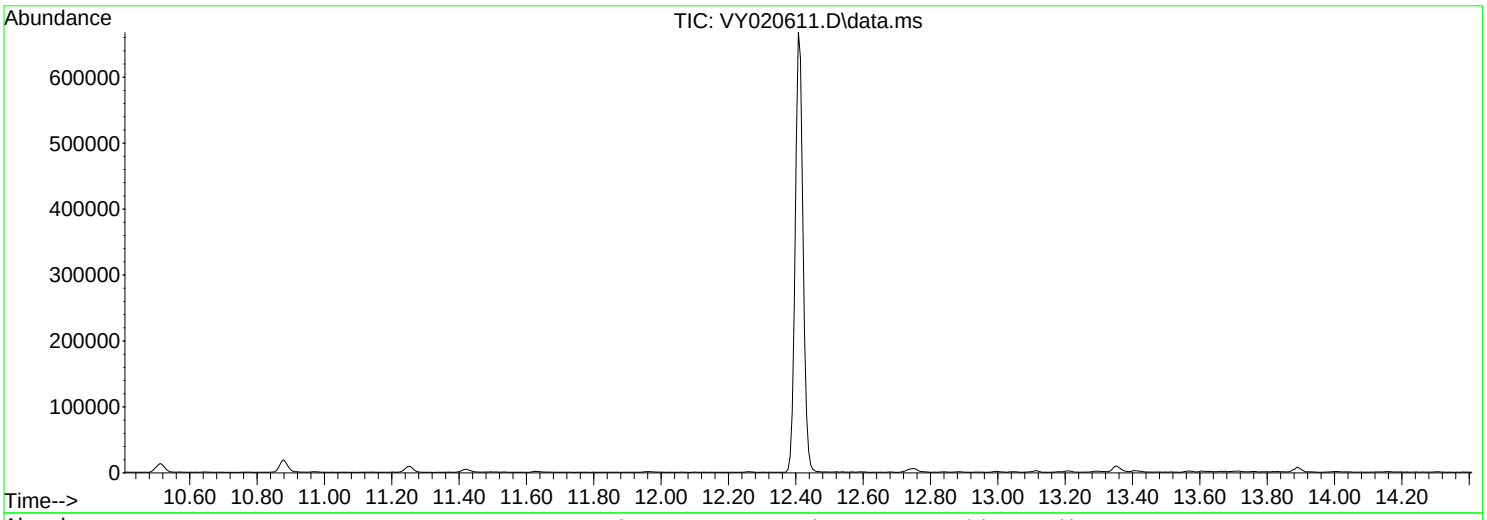
Sample Results: **VY020611.D**

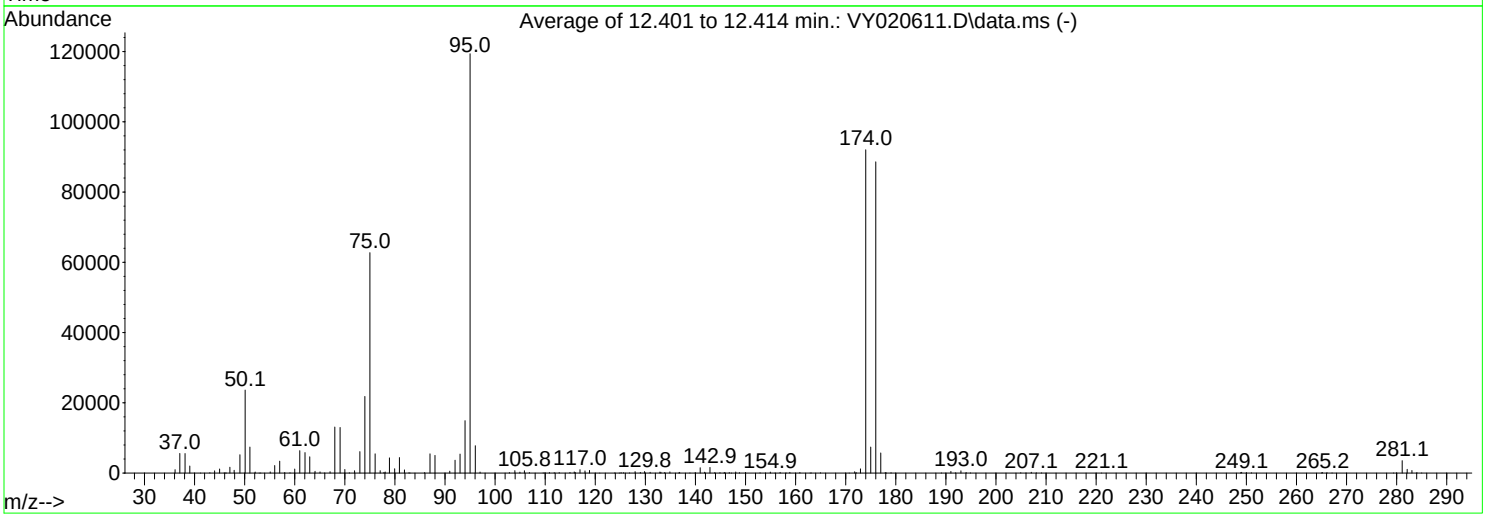
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020611.D
Acq On : 17 Dec 2024 09:00
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Title : SW846 8260
Last Update : Wed Dec 18 05:27:13 2024




AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1744

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 19.8 | 23624 | PASS |
| 75 | 95 | 30 | 60 | 52.6 | 62757 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 119384 | PASS |
| 96 | 95 | 5 | 9 | 6.5 | 7799 | PASS |
| 173 | 174 | 0.00 | 2 | 1.3 | 1208 | PASS |
| 174 | 95 | 50 | 100 | 77.1 | 92040 | PASS |
| 175 | 174 | 5 | 9 | 8.0 | 7407 | PASS |
| 176 | 174 | 95 | 101 | 96.3 | 88608 | PASS |
| 177 | 176 | 5 | 9 | 6.5 | 5728 | PASS |

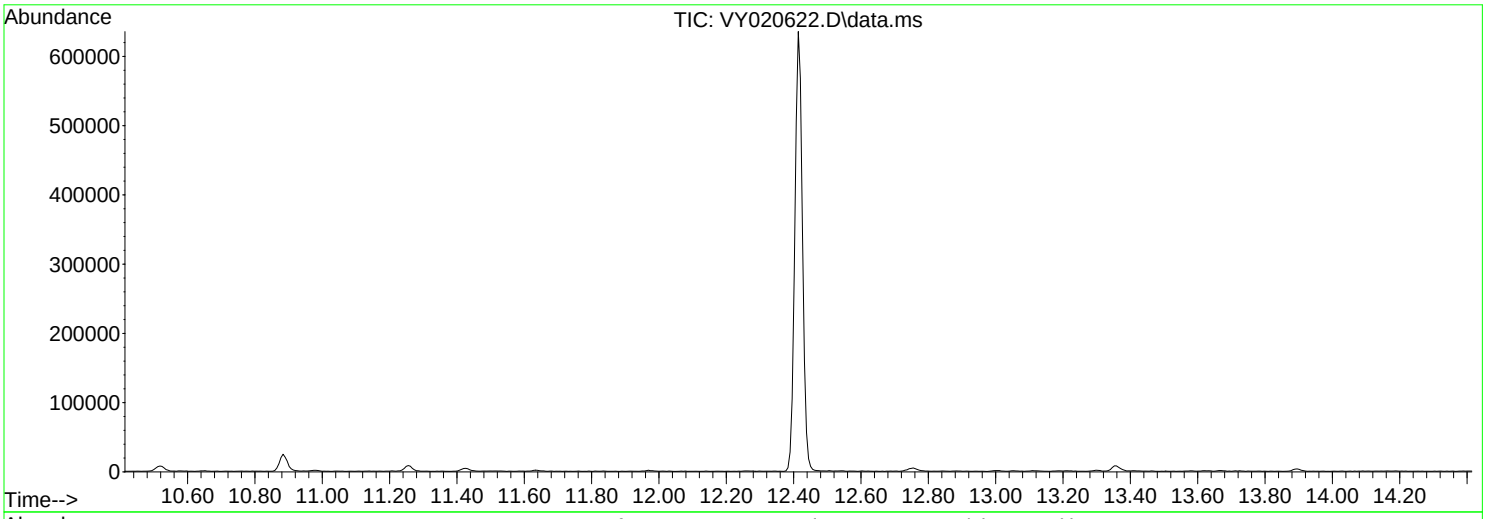
Sample Results: **VY020622.D**

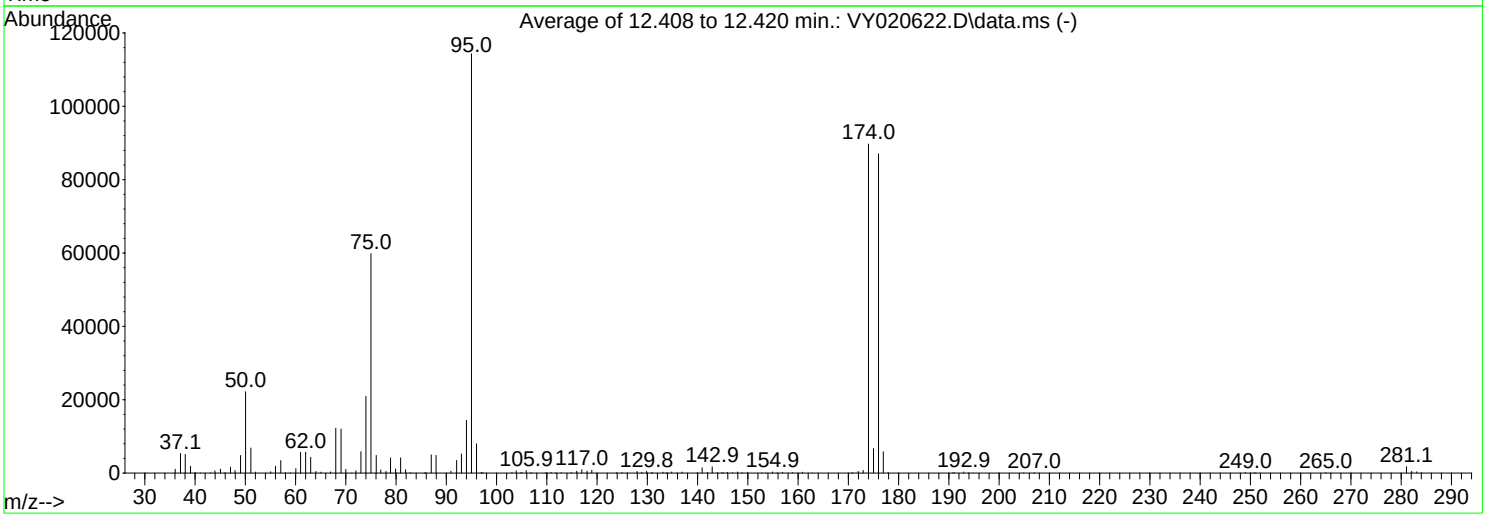
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020622.D
Acq On : 18 Dec 2024 08:46
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Title : SW846 8260
Last Update : Wed Dec 18 05:27:13 2024




AutoFind: Scans 1753, 1754, 1755; Background Corrected with Scan 1745

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 19.4 | 22181 | PASS |
| 75 | 95 | 30 | 60 | 52.4 | 59867 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 114336 | PASS |
| 96 | 95 | 5 | 9 | 7.0 | 7972 | PASS |
| 173 | 174 | 0.00 | 2 | 0.9 | 765 | PASS |
| 174 | 95 | 50 | 100 | 78.5 | 89720 | PASS |
| 175 | 174 | 5 | 9 | 7.4 | 6659 | PASS |
| 176 | 174 | 95 | 101 | 97.0 | 87059 | PASS |
| 177 | 176 | 5 | 9 | 6.7 | 5814 | PASS |

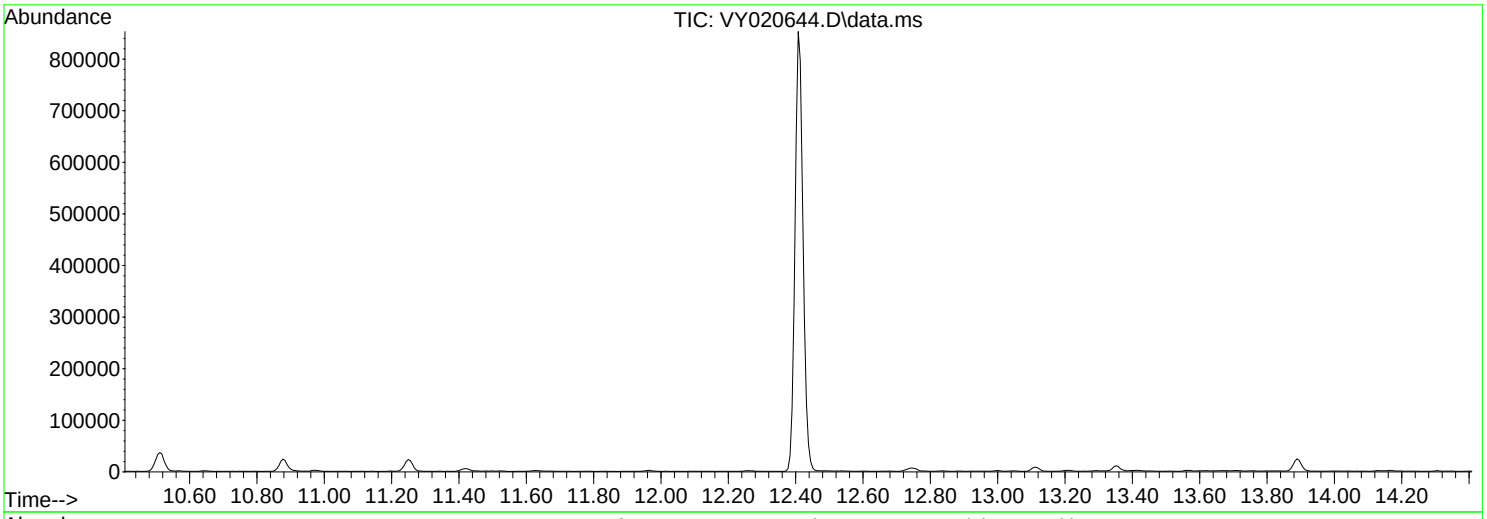
Sample Results: **VY020644.D**

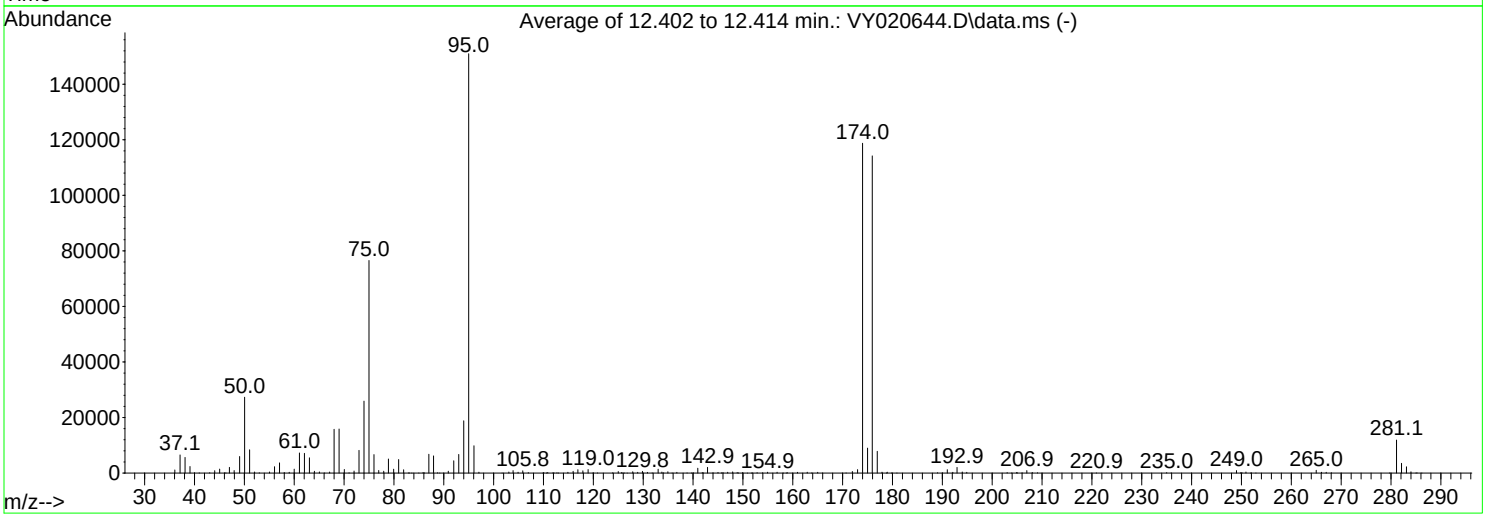
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121924\
Data File : VY020644.D
Acq On : 19 Dec 2024 09:13
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Title : SW846 8260
Last Update : Wed Dec 18 05:27:13 2024




AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1744

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 18.1 | 27309 | PASS |
| 75 | 95 | 30 | 60 | 50.7 | 76547 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 150976 | PASS |
| 96 | 95 | 5 | 9 | 6.5 | 9845 | PASS |
| 173 | 174 | 0.00 | 2 | 1.1 | 1249 | PASS |
| 174 | 95 | 50 | 100 | 78.7 | 118747 | PASS |
| 175 | 174 | 5 | 9 | 7.6 | 8988 | PASS |
| 176 | 174 | 95 | 101 | 96.2 | 114192 | PASS |
| 177 | 176 | 5 | 9 | 6.9 | 7838 | PASS |

Raw Data: **VY020625.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Kleinfelder | Date Collected: | |
| Project: | Tanner G. Duckrey Public School | Date Received: | |
| Client Sample ID: | VY1218SBL01 | SDG No.: | P5277 |
| Lab Sample ID: | VY1218SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020625.D | 1 | | 12/18/24 10:52 | VY121824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.61 | U | 0.61 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 0.72 | U | 0.72 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.75 | U | 0.75 | 5.00 | ug/Kg |
| 108-88-3 | Toluene | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.62 | U | 0.62 | 5.00 | ug/Kg |
| 1330-20-7 | Total Xylenes | 2.10 | U | 2.10 | 15.0 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.7 | | 50 - 163 | 99% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 44.7 | | 54 - 147 | 89% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.4 | | 58 - 134 | 97% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 37.4 | | 29 - 146 | 75% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 201000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 356000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 296000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 114000 | 13.352 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020625.D
Acq On : 18 Dec 2024 10:52
Operator : SY/MD
Sample : VY1218SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1218SBL01

Quant Time: Dec 18 14:21:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

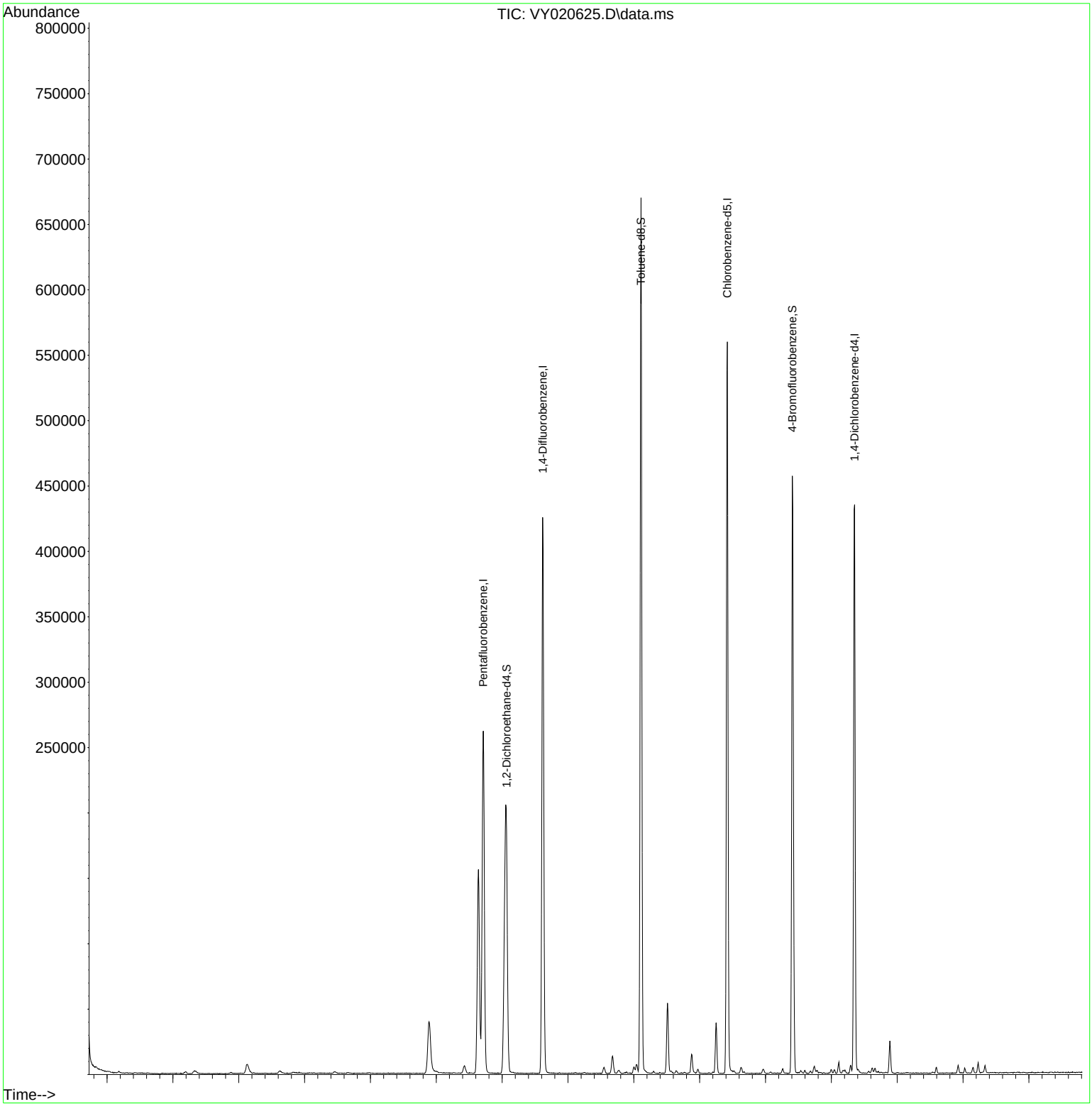
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 201389 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 355898 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 296016 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 114022 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 109578 | 49.681 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 99.360% | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 112159 | 44.716 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 89.440% | | |
| 50) Toluene-d8 | 10.109 | 98 | 424991 | 48.408 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 96.820% | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 128486 | 37.413 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 74.820% | | |
| Target Compounds | | | | | | Qvalue |

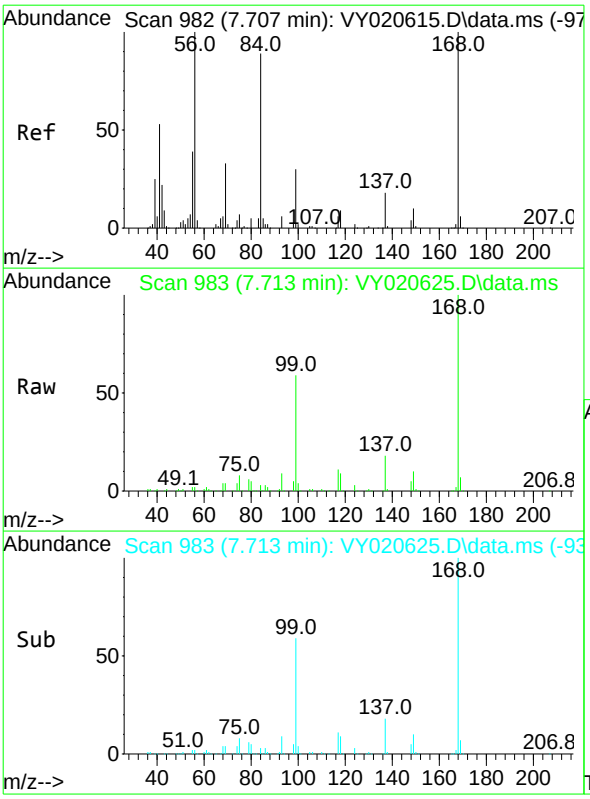
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020625.D
Acq On : 18 Dec 2024 10:52
Operator : SY/MD
Sample : VY1218SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1218SBL01

Quant Time: Dec 18 14:21:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



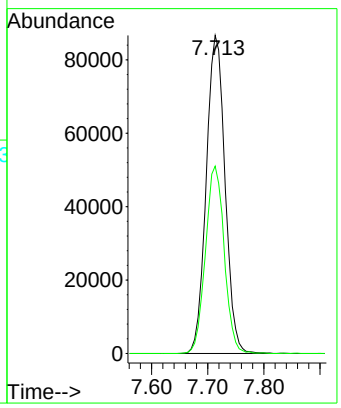


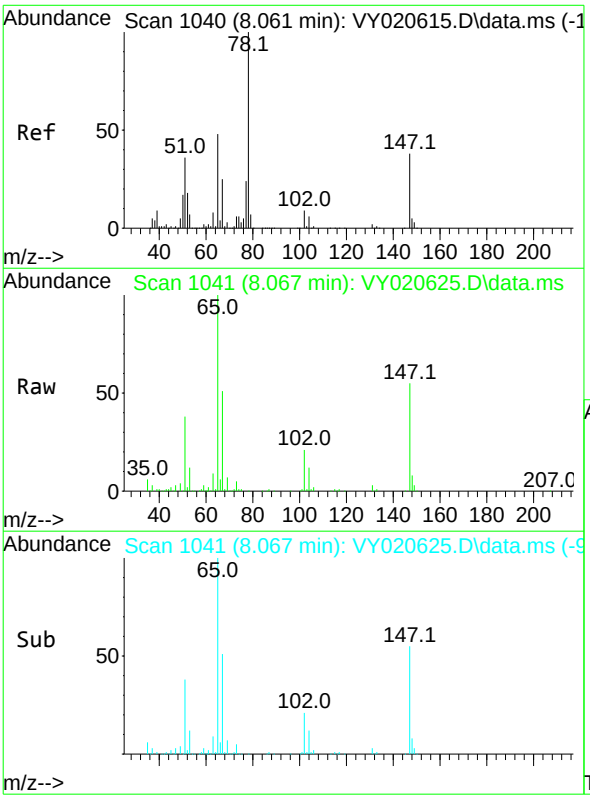

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY020625.D
Acq: 18 Dec 2024 10:52

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1218SBL01

Tgt Ion:168 Resp: 201389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 58.9 | 47.0 | 70.6 |

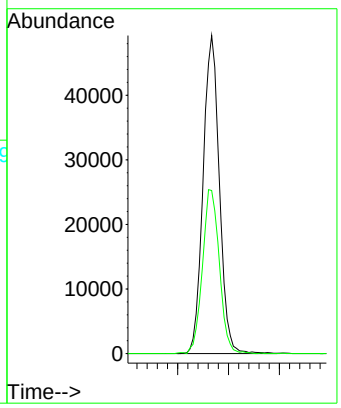


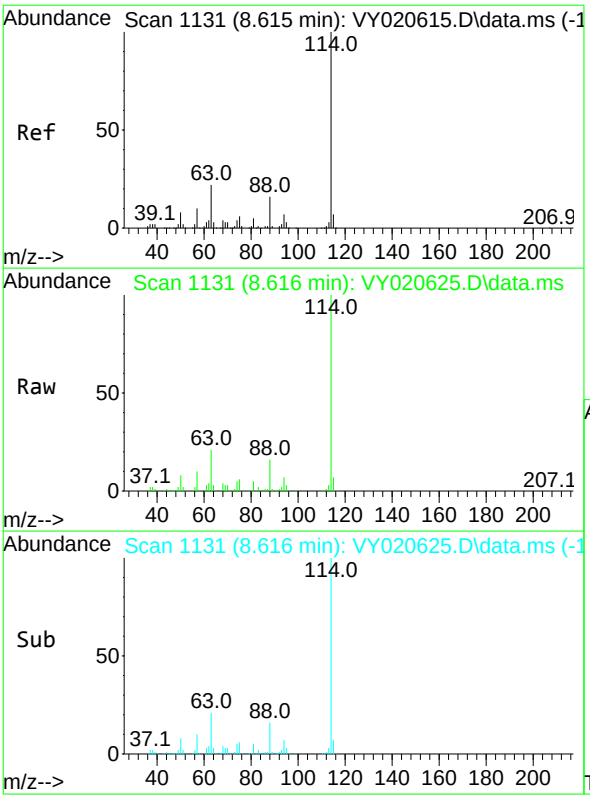




#33
1,2-Dichloroethane-d4
Concen: 49.681 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY020625.D
Acq: 18 Dec 2024 10:52

Tgt Ion: 65 Resp: 109578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.4 | 0.0 | 108.0 |



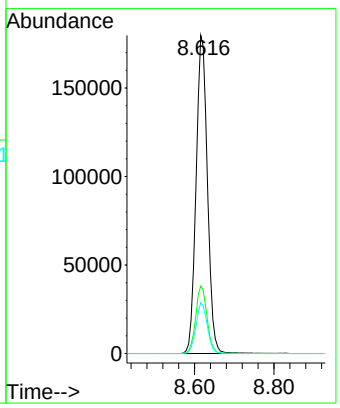


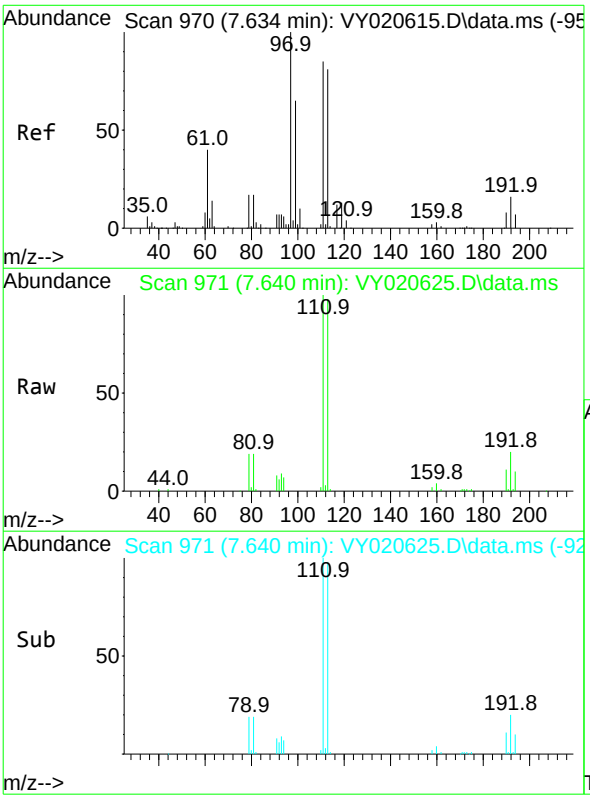

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020625.D
Acq: 18 Dec 2024 10:52

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1218SBL01

Tgt Ion:114 Resp: 355898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.2 | 0.0 | 44.0 |
| 88 | 16.0 | 0.0 | 32.8 |

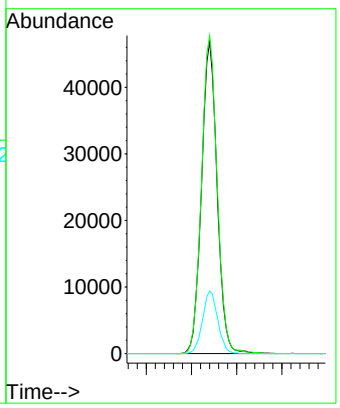


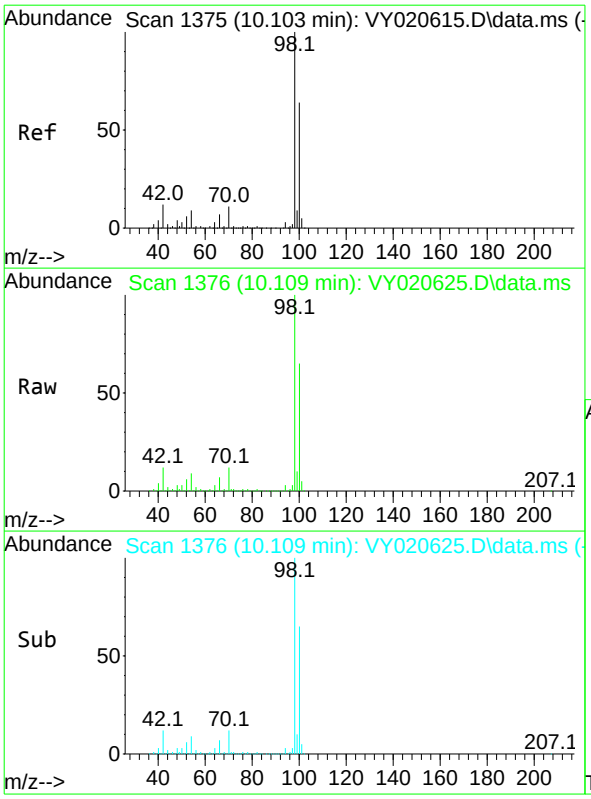




#35
Dibromofluoromethane
Concen: 44.716 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY020625.D
Acq: 18 Dec 2024 10:52

Tgt Ion:113 Resp: 112159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.5 | 82.9 | 124.3 |
| 192 | 19.5 | 15.7 | 23.5 |



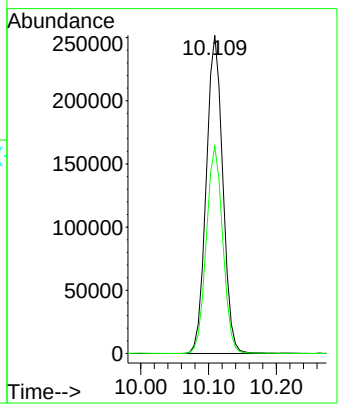


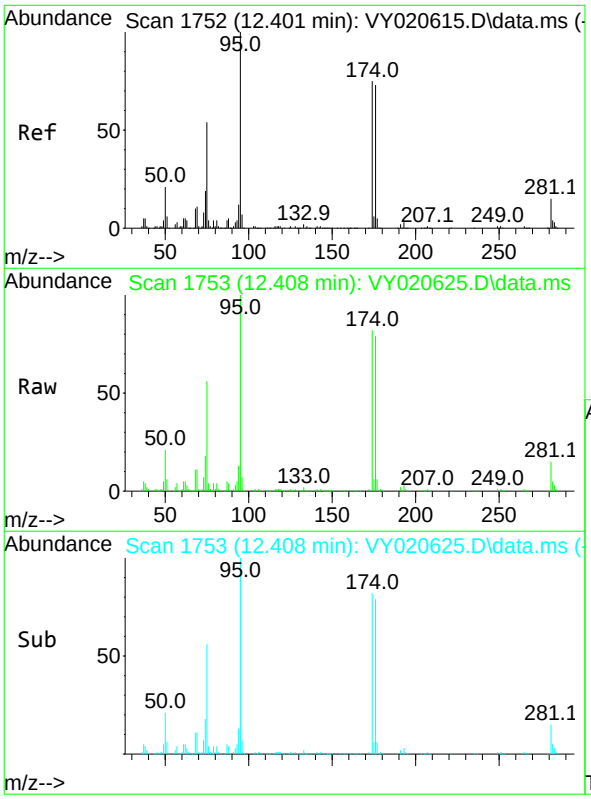

#50
Toluene-d8
Concen: 48.408 ug/l
RT: 10.109 min Scan# 13
Delta R.T. 0.006 min
Lab File: VY020625.D
Acq: 18 Dec 2024 10:52

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1218SBL01

Tgt Ion: 98 Resp: 424991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.2 | 52.1 | 78.1 |

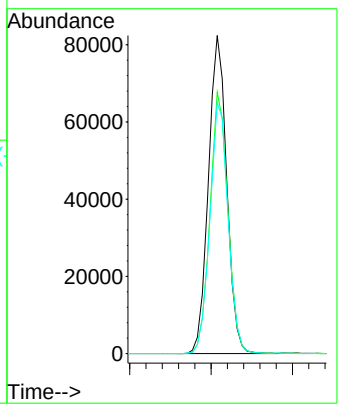


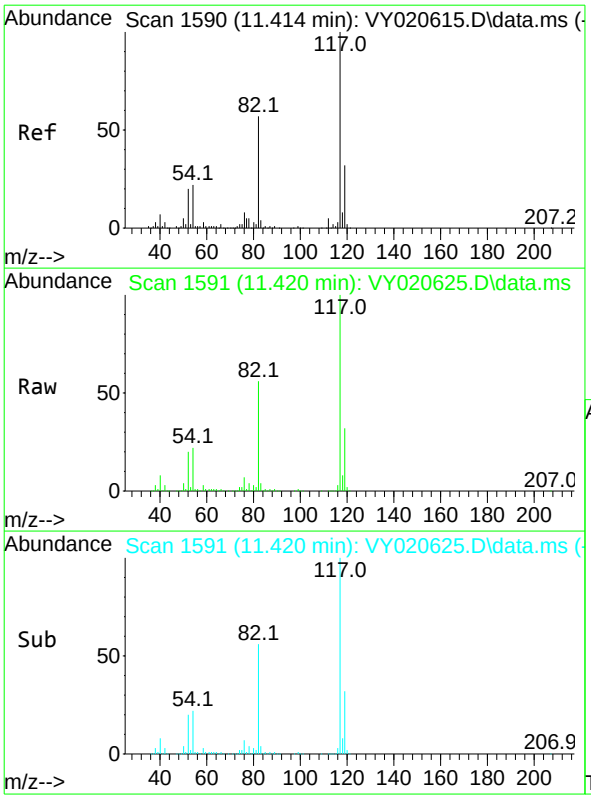




#62
4-Bromofluorobenzene
Concen: 37.413 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020625.D
Acq: 18 Dec 2024 10:52

Tgt Ion: 95 Resp: 128486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 81.0 | 0.0 | 161.8 |
| 176 | 78.5 | 0.0 | 156.6 |



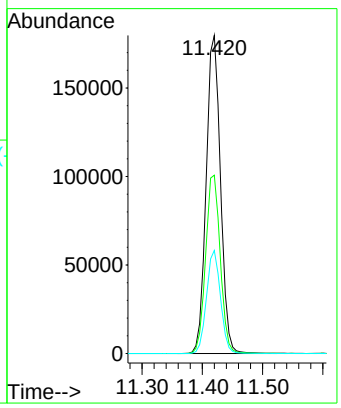


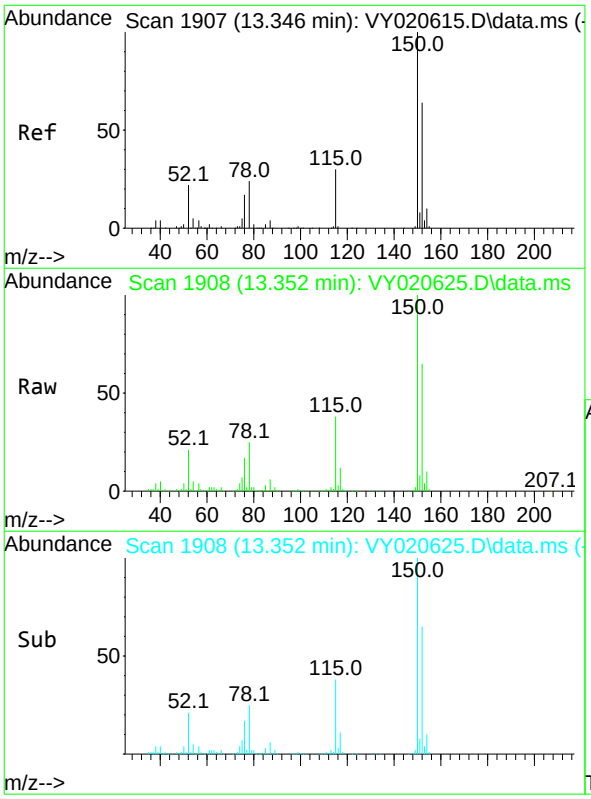

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020625.D
Acq: 18 Dec 2024 10:52

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1218SBL01

Tgt Ion:117 Resp: 296016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.0 | 45.8 | 68.6 |
| 119 | 32.4 | 25.3 | 37.9 |

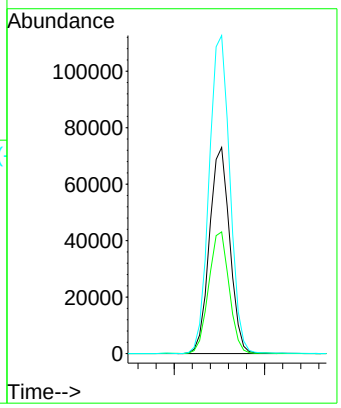



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY020625.D
Acq: 18 Dec 2024 10:52

Tgt Ion:152 Resp: 114022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.2 | 30.2 | 90.6 |
| 150 | 157.4 | 0.0 | 355.4 |



Raw Data: **VY020646.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Kleinfelder | Date Collected: | |
| Project: | Tanner G. Duckrey Public School | Date Received: | |
| Client Sample ID: | VY1219SBL01 | SDG No.: | P5277 |
| Lab Sample ID: | VY1219SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020646.D | 1 | | 12/19/24 11:07 | VY121924 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.61 | U | 0.61 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 0.72 | U | 0.72 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.75 | U | 0.75 | 5.00 | ug/Kg |
| 108-88-3 | Toluene | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.62 | U | 0.62 | 5.00 | ug/Kg |
| 1330-20-7 | Total Xylenes | 2.10 | U | 2.10 | 15.0 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 44.5 | | 50 - 163 | 89% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 45.8 | | 54 - 147 | 92% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 43.8 | | 58 - 134 | 88% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 40.3 | | 29 - 146 | 81% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 204000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 319000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 271000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 145000 | 13.353 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121924\
Data File : VY020646.D
Acq On : 19 Dec 2024 11:07
Operator : SY/MD
Sample : VY1219SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1219SBL01

Quant Time: Dec 20 00:46:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

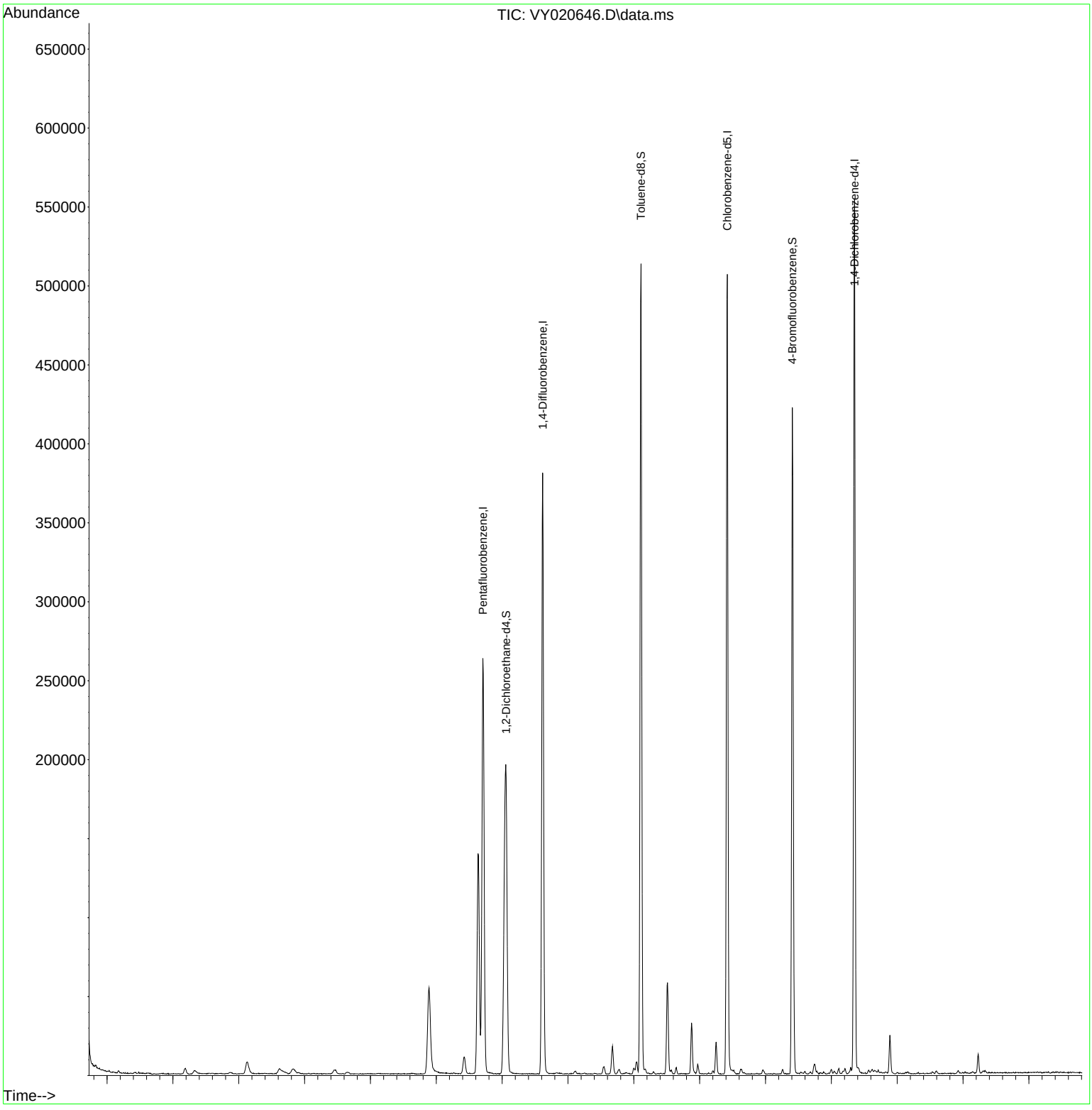
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 204045 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 318952 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 271132 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 145317 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 99418 | 44.488 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 88.980% | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 102958 | 45.802 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 91.600% | | |
| 50) Toluene-d8 | 10.109 | 98 | 344522 | 43.788 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 87.580% | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 124147 | 40.337 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 80.680% | | |
| Target Compounds | | | | | | Qvalue |

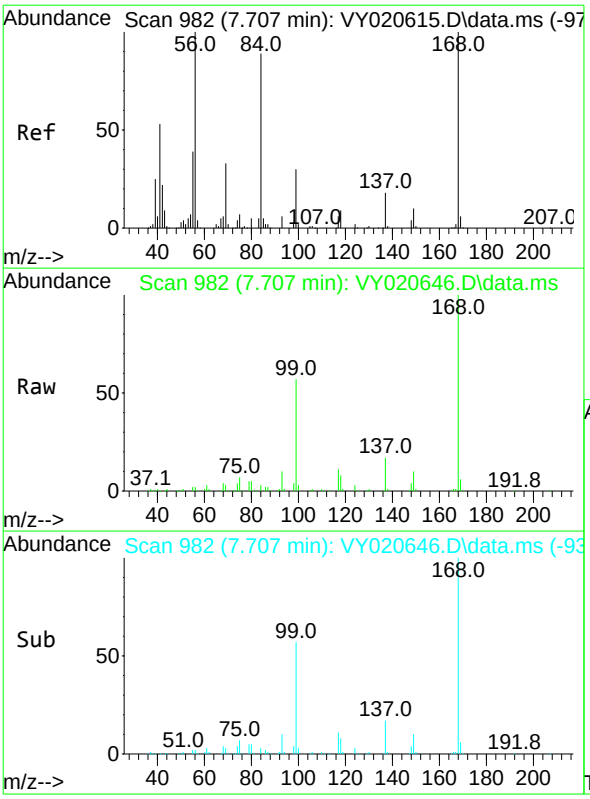
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121924\
Data File : VY020646.D
Acq On : 19 Dec 2024 11:07
Operator : SY/MD
Sample : VY1219SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1219SBL01

Quant Time: Dec 20 00:46:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



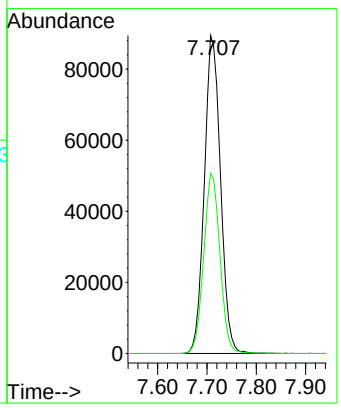


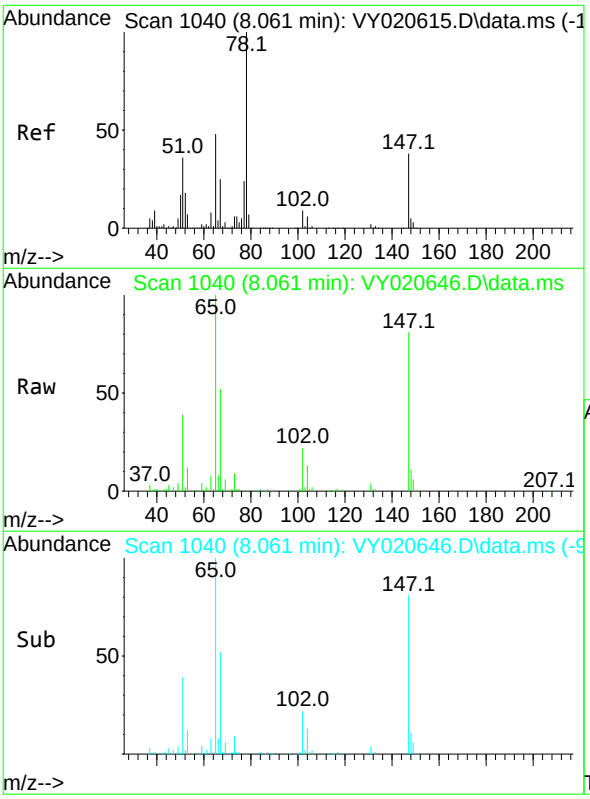

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020646.D
Acq: 19 Dec 2024 11:07

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1219SBL01

Tgt Ion:168 Resp: 204045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 56.6 | 47.0 | 70.6 |

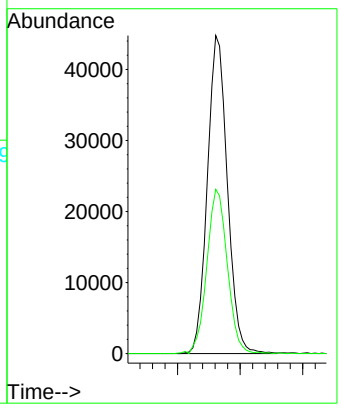


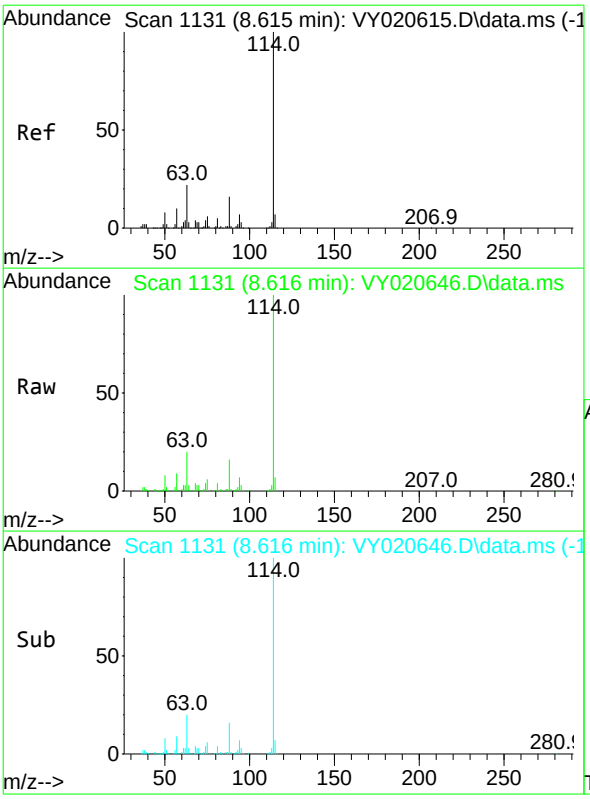




#33
1,2-Dichloroethane-d4
Concen: 44.488 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020646.D
Acq: 19 Dec 2024 11:07

Tgt Ion: 65 Resp: 99418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.8 | 0.0 | 108.0 |



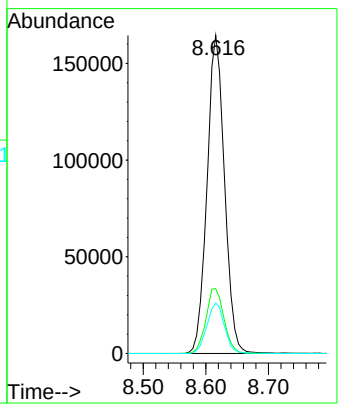


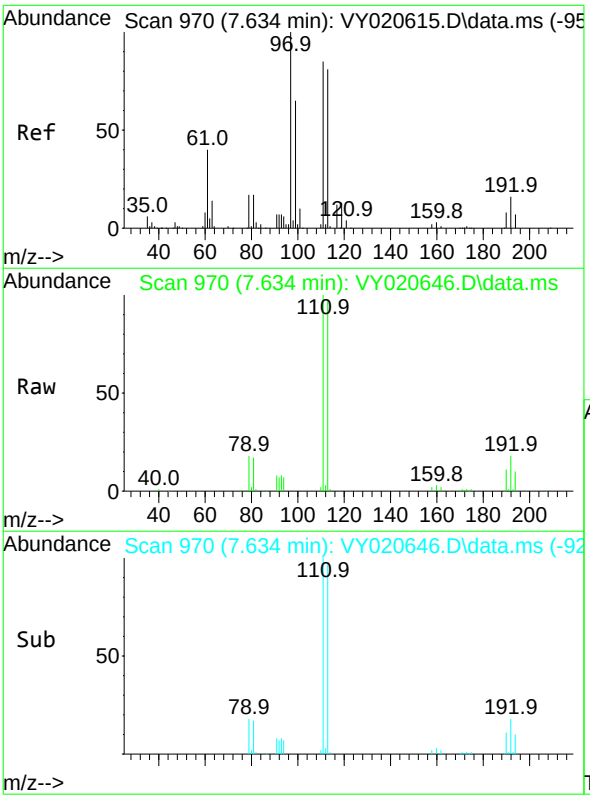

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020646.D
Acq: 19 Dec 2024 11:07

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1219SBL01

Tgt Ion:114 Resp: 318952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.4 | 0.0 | 44.0 |
| 88 | 15.9 | 0.0 | 32.8 |

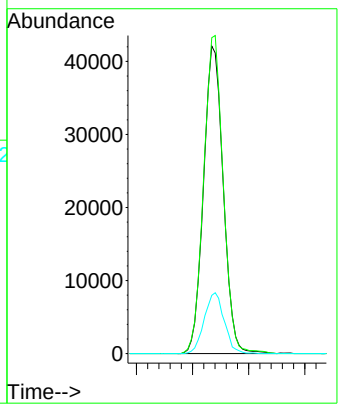


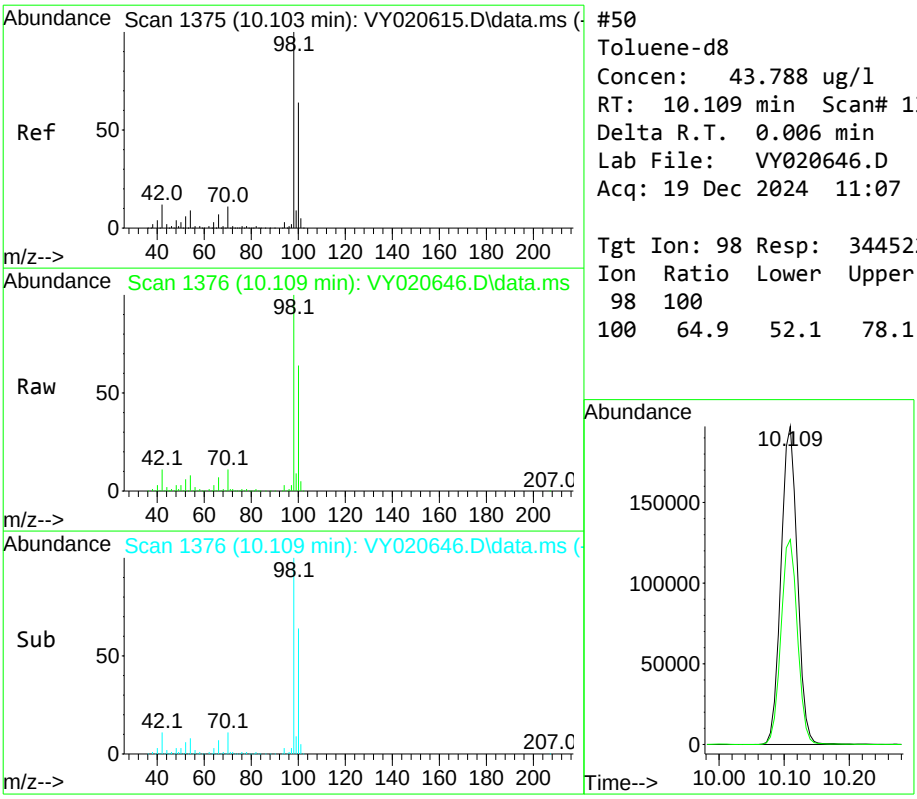




#35
Dibromofluoromethane
Concen: 45.802 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020646.D
Acq: 19 Dec 2024 11:07

Tgt Ion:113 Resp: 102958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.3 | 82.9 | 124.3 |
| 192 | 20.0 | 15.7 | 23.5 |





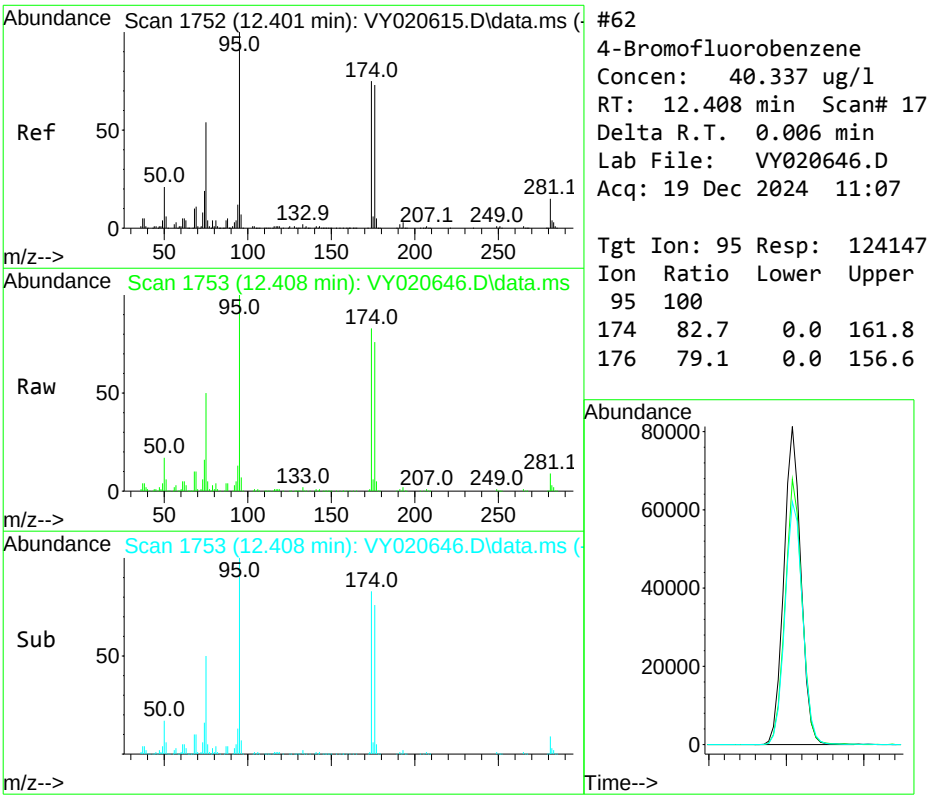

#50
Toluene-d8
Concen: 43.788 ug/l
RT: 10.109 min Scan# 13
Delta R.T. 0.006 min
Lab File: VY020646.D
Acq: 19 Dec 2024 11:07

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1219SBL01

Tgt Ion: 98 Resp: 344522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.9 | 52.1 | 78.1 |

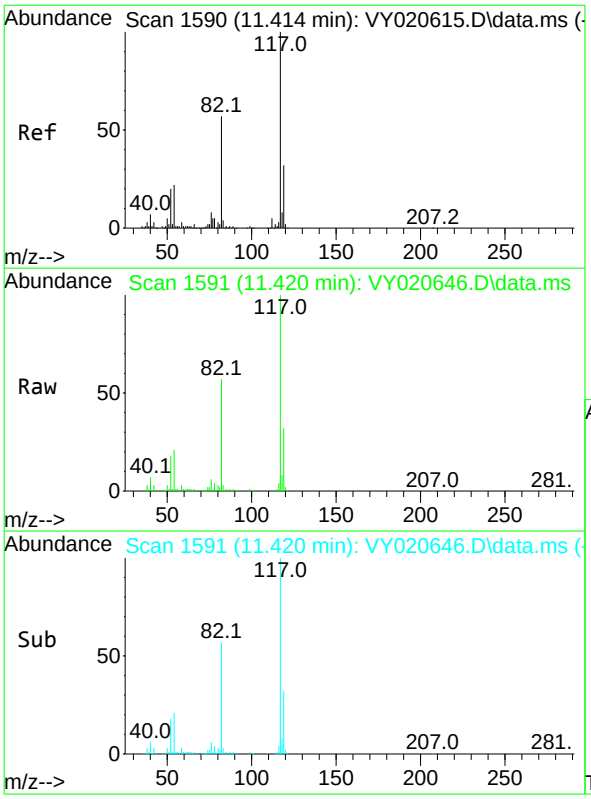



#62
4-Bromofluorobenzene
Concen: 40.337 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020646.D
Acq: 19 Dec 2024 11:07

Tgt Ion: 95 Resp: 124147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 82.7 | 0.0 | 161.8 |
| 176 | 79.1 | 0.0 | 156.6 |

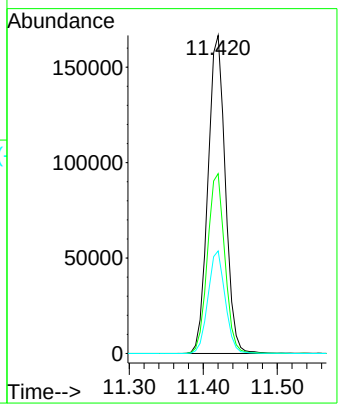


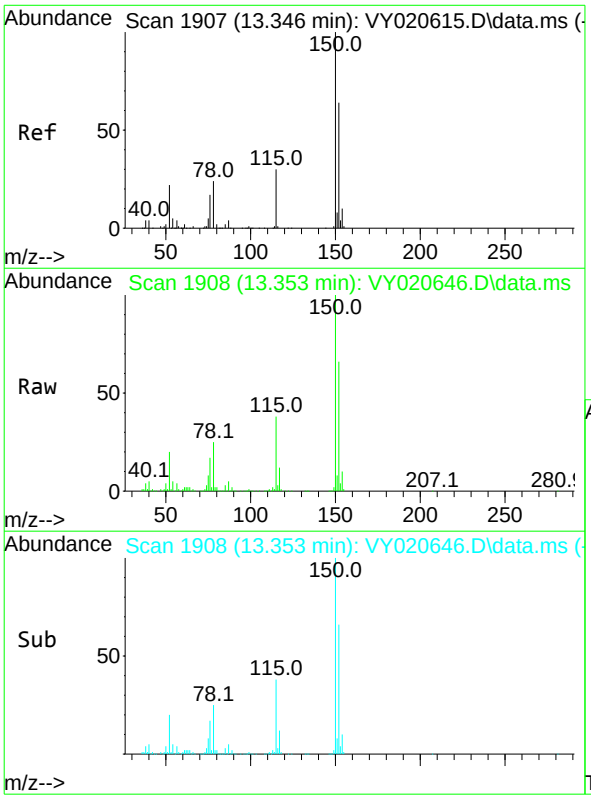

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020646.D
Acq: 19 Dec 2024 11:07

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1219SBL01

Tgt Ion:117 Resp: 271132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.5 | 45.8 | 68.6 |
| 119 | 32.2 | 25.3 | 37.9 |

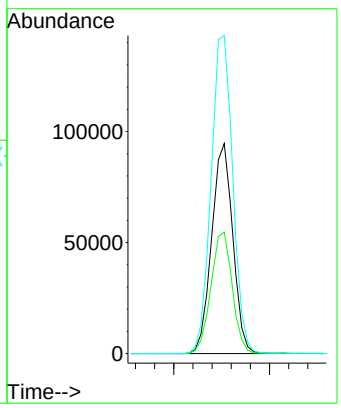



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY020646.D
Acq: 19 Dec 2024 11:07

Tgt Ion:152 Resp: 145317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.4 | 30.2 | 90.6 |
| 150 | 155.2 | 0.0 | 355.4 |



Raw Data: **VY020626.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Kleinfelder | Date Collected: | |
| Project: | Tanner G. Duckrey Public School | Date Received: | |
| Client Sample ID: | VY1218SBS01 | SDG No.: | P5277 |
| Lab Sample ID: | VY1218SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020626.D | 1 | | 12/18/24 11:19 | VY121824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 156-59-2 | cis-1,2-Dichloroethene | 19.2 | | 0.61 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 19.4 | | 0.78 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 19.5 | | 0.72 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 19.4 | | 0.75 | 5.00 | ug/Kg |
| 108-88-3 | Toluene | 19.3 | | 0.67 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 19.3 | | 0.62 | 5.00 | ug/Kg |
| 1330-20-7 | Total Xylenes | 57.4 | | 2.10 | 15.0 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 19.1 | | 0.67 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 48.4 | | 50 - 163 | 97% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.3 | | 54 - 147 | 97% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.7 | | 58 - 134 | 97% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 46.3 | | 29 - 146 | 93% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 167000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 258000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 227000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 127000 | 13.347 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VY020626.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020626.D
Acq On : 18 Dec 2024 11:19
Operator : SY/MD
Sample : VY1218SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 14:21:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1218SBS01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 167281 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 257615 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 226665 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 127451 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 88674 | 48.401 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 96.800% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 87767 | 48.340 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 96.680% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 309318 | 48.674 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 97.340% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 115004 | 46.263 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 92.520% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 40382 | 19.327 | ug/l | 99 |
| 3) Chloromethane | 2.068 | 50 | 30252 | 19.541 | ug/l | 97 |
| 4) Vinyl Chloride | 2.208 | 62 | 30090 | 20.882 | ug/l | 93 |
| 5) Bromomethane | 2.592 | 94 | 17369 | 18.752 | ug/l | 94 |
| 6) Chloroethane | 2.733 | 64 | 17918 | 20.123 | ug/l | 97 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 58469 | 19.392 | ug/l | 95 |
| 8) Diethyl Ether | 3.452 | 74 | 18809 | 17.788 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 37241 | 17.232 | ug/l | 100 |
| 10) Methyl Iodide | 4.007 | 142 | 41758 | 17.355 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.860 | 59 | 19583 | 78.568 | ug/l | 97 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 35177 | 16.776 | ug/l | 99 |
| 13) Acrolein | 3.653 | 56 | 8215 | 94.829 | ug/l | 94 |
| 14) Allyl chloride | 4.385 | 41 | 69625 | 18.949 | ug/l | 99 |
| 15) Acrylonitrile | 5.068 | 53 | 49364 | 97.584 | ug/l | 99 |
| 16) Acetone | 3.873 | 43 | 29969 | 77.909 | ug/l | 98 |
| 17) Carbon Disulfide | 4.110 | 76 | 119696 | 17.537 | ug/l | 99 |
| 18) Methyl Acetate | 4.391 | 43 | 24523 | 19.673 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.110 | 73 | 107210 | 19.809 | ug/l | 95 |
| 20) Methylene Chloride | 4.623 | 84 | 44364 | 19.476 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 44598 | 18.960 | ug/l | 96 |
| 22) Diisopropyl ether | 6.019 | 45 | 148852 | 19.958 | ug/l | 95 |
| 23) Vinyl Acetate | 5.964 | 43 | 416297 | 98.552 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 83933 | 19.210 | ug/l | 99 |
| 25) 2-Butanone | 6.903 | 43 | 61848 | 90.838 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 71249 | 17.250 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 52075 | 19.243 | ug/l | 99 |
| 28) Bromochloromethane | 7.244 | 49 | 25031 | 16.984 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.268 | 42 | 41982 | 97.675 | ug/l | 99 |
| 30) Chloroform | 7.421 | 83 | 90485 | 17.145 | ug/l | 99 |
| 31) Cyclohexane | 7.701 | 56 | 78663 | 18.829 | ug/l | 95 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 77928 | 19.413 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 63989 | 19.328 | ug/l | 100 |
| 37) Ethyl Acetate | 6.988 | 43 | 29965 | 19.242 | ug/l | 97 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 70634 | 19.284 | ug/l | 96 |
| 39) Methylcyclohexane | 9.110 | 83 | 81692 | 18.932 | ug/l | 98 |
| 40) Benzene | 8.079 | 78 | 189386 | 19.516 | ug/l | 97 |

Sample Results: **VY020626.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020626.D
Acq On : 18 Dec 2024 11:19
Operator : SY/MD
Sample : VY1218SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 14:21:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1218SBS01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.226 | 41 | 18878 | 22.930 ug/l # | 81 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 50543 | 19.638 ug/l | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 58670 | 19.900 ug/l # | 91 |
| 44) Trichloroethene | 8.866 | 130 | 46211 | 19.380 ug/l | 98 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 44886 | 19.791 ug/l | 96 |
| 46) Dibromomethane | 9.231 | 93 | 23180 | 19.339 ug/l | 100 |
| 47) Bromodichloromethane | 9.420 | 83 | 62416 | 19.278 ug/l | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 27180 | 19.393 ug/l | 99 |
| 49) 1,4-Dioxane | 9.225 | 88 | 5652 | 411.180 ug/l | 95 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 151100 | 97.097 ug/l | 100 |
| 52) Toluene | 10.170 | 92 | 116630 | 19.339 ug/l | 98 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 59203 | 19.624 ug/l | 97 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 69444 | 19.425 ug/l | 97 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 30990 | 19.556 ug/l | 99 |
| 56) Ethyl methacrylate | 10.439 | 69 | 45754 | 19.902 ug/l | 99 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 56163 | 19.881 ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 95263 | 98.479 ug/l | 99 |
| 59) 2-Hexanone | 10.762 | 43 | 97879 | 97.964 ug/l | 99 |
| 60) Dibromochloromethane | 10.908 | 129 | 41648 | 19.651 ug/l | 98 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 29380 | 19.931 ug/l | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 39902 | 18.715 ug/l | 97 |
| 65) Chlorobenzene | 11.438 | 112 | 122617 | 19.347 ug/l | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 42870 | 19.781 ug/l | 98 |
| 67) Ethyl Benzene | 11.518 | 91 | 226042 | 19.332 ug/l | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 166597 | 38.321 ug/l | 99 |
| 69) o-Xylene | 11.957 | 106 | 77614 | 19.134 ug/l | 96 |
| 70) Styrene | 11.969 | 104 | 131983 | 19.475 ug/l | 99 |
| 71) Bromoform | 12.133 | 173 | 24420 | 20.042 ug/l # | 100 |
| 73) Isopropylbenzene | 12.255 | 105 | 212024 | 19.063 ug/l | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 50923 | 19.564 ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 36238 | 20.073 ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 26707m | 20.172 ug/l | |
| 77) Bromobenzene | 12.536 | 156 | 46315 | 19.117 ug/l | 97 |
| 78) n-propylbenzene | 12.597 | 91 | 254635 | 19.003 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 145409 | 19.287 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 172109 | 19.071 ug/l | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 12641 | 20.041 ug/l | 98 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 149033 | 19.054 ug/l | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 154550 | 18.910 ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 170656 | 19.278 ug/l | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 224573 | 18.898 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 184653 | 18.847 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 91457 | 19.123 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 89466 | 18.888 ug/l | 98 |
| 89) n-Butylbenzene | 13.621 | 91 | 175462 | 18.896 ug/l | 100 |
| 90) Hexachloroethane | 13.883 | 117 | 37311 | 19.216 ug/l | 98 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 80206 | 19.356 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 5613 | 19.150 ug/l | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.926 | 180 | 46722 | 18.641 ug/l | 98 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 29648 | 18.095 ug/l | 99 |
| 95) Naphthalene | 15.145 | 128 | 83096 | 19.338 ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 39852 | 18.819 ug/l | 99 |

Sample Results: **VY020626.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020626.D
Acq On : 18 Dec 2024 11:19
Operator : SY/MD
Sample : VY1218SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 14:21:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1218SBS01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

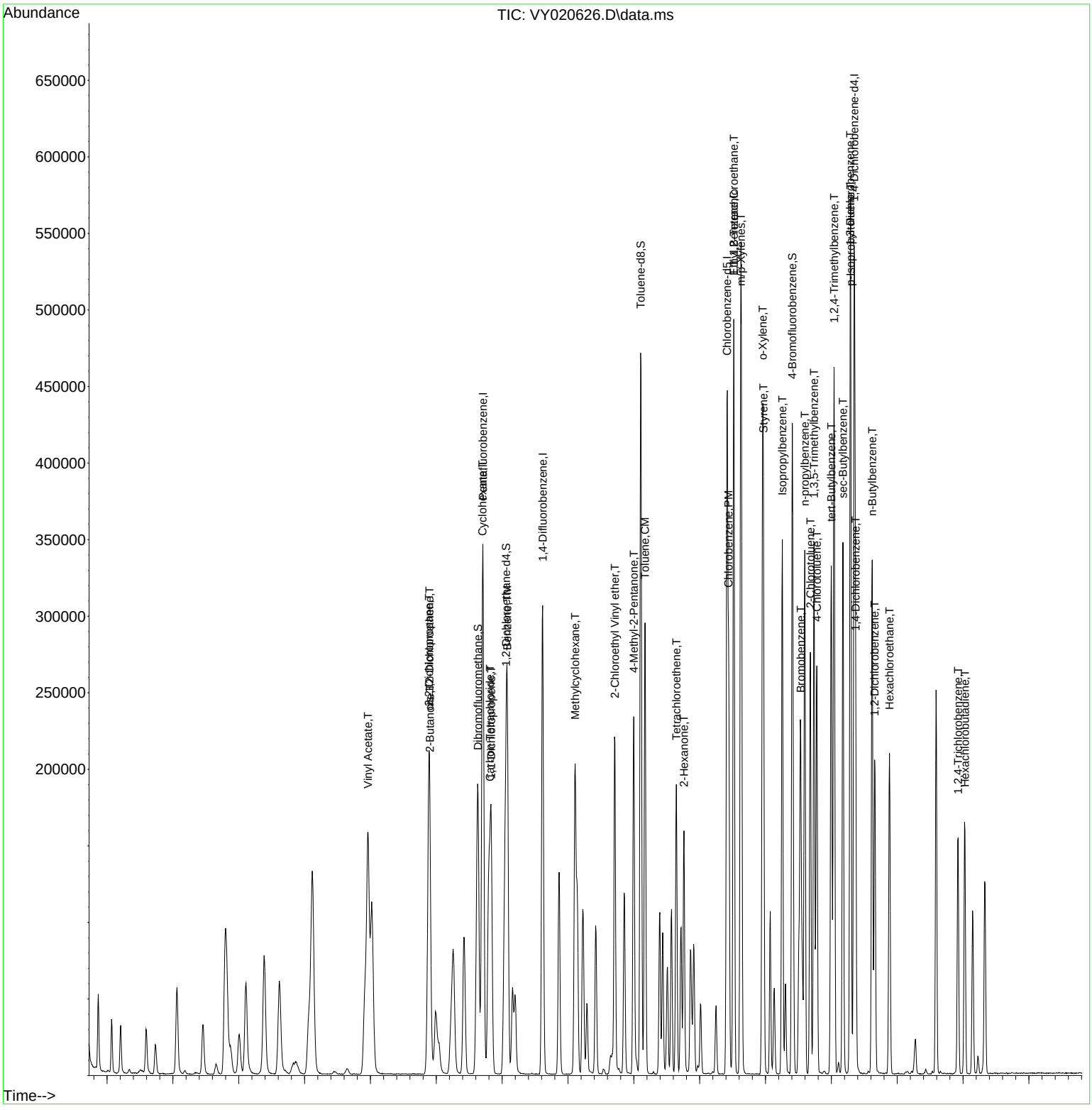
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020626.D
Acq On : 18 Dec 2024 11:19
Operator : SY/MD
Sample : VY1218SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 14:21:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1218SBS01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024



Raw Data: **VY020647.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Kleinfelder | Date Collected: | |
| Project: | Tanner G. Duckrey Public School | Date Received: | |
| Client Sample ID: | VY1219SBS01 | SDG No.: | P5277 |
| Lab Sample ID: | VY1219SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020647.D | 1 | | 12/19/24 11:53 | VY121924 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 156-59-2 | cis-1,2-Dichloroethene | 21.3 | | 0.61 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 21.2 | | 0.78 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 21.4 | | 0.72 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 21.4 | | 0.75 | 5.00 | ug/Kg |
| 108-88-3 | Toluene | 21.5 | | 0.67 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 21.2 | | 0.62 | 5.00 | ug/Kg |
| 1330-20-7 | Total Xylenes | 64.6 | | 2.10 | 15.0 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 21.1 | | 0.67 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 54.5 | | 50 - 163 | 109% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 55.5 | | 54 - 147 | 111% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 55.6 | | 58 - 134 | 111% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 53.6 | | 29 - 146 | 107% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 185000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 283000 | 8.615 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 248000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 139000 | 13.352 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VY020647.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121924\
Data File : VY020647.D
Acq On : 19 Dec 2024 11:53
Operator : SY/MD
Sample : VY1219SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 20 00:47:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1219SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/20/2024
Supervised By :Semsettin Yesilyurt 12/20/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 184895 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 283194 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 247561 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 139236 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 110359 | 54.498 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 109.000% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 110812 | 55.520 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 111.040% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 388095 | 55.554 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 111.100% | | | |
| 62) 4-Bromofluorobenzene | 12.407 | 95 | 146340 | 53.552 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 107.100% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 46604 | 20.180 | ug/l | 99 |
| 3) Chloromethane | 2.074 | 50 | 32178 | 18.805 | ug/l | 99 |
| 4) Vinyl Chloride | 2.208 | 62 | 29453 | 18.493 | ug/l | 98 |
| 5) Bromomethane | 2.598 | 94 | 15687 | 15.323 | ug/l | 93 |
| 6) Chloroethane | 2.738 | 64 | 14290 | 14.520 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.061 | 101 | 57129 | 17.143 | ug/l | 97 |
| 8) Diethyl Ether | 3.458 | 74 | 18049 | 15.443 | ug/l | 92 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 38154 | 15.973 | ug/l | 97 |
| 10) Methyl Iodide | 4.013 | 142 | 45573 | 17.136 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.872 | 59 | 20125 | 70.688 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 35580 | 15.351 | ug/l | 93 |
| 13) Acrolein | 3.659 | 56 | 8452 | 88.270 | ug/l | 97 |
| 14) Allyl chloride | 4.390 | 41 | 68670 | 16.909 | ug/l | 98 |
| 15) Acrylonitrile | 5.067 | 53 | 54120 | 96.793 | ug/l | 97 |
| 16) Acetone | 3.878 | 43 | 28434 | 65.941 | ug/l | 100 |
| 17) Carbon Disulfide | 4.110 | 76 | 121614 | 16.120 | ug/l | 99 |
| 18) Methyl Acetate | 4.390 | 43 | 25492 | 18.503 | ug/l | 96 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 121819 | 20.364 | ug/l | 100 |
| 20) Methylene Chloride | 4.622 | 84 | 48520 | 19.271 | ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 50361 | 19.371 | ug/l | 93 |
| 22) Diisopropyl ether | 6.024 | 45 | 156745 | 19.014 | ug/l | 96 |
| 23) Vinyl Acetate | 5.963 | 43 | 447758 | 95.902 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 94173 | 19.500 | ug/l | 98 |
| 25) 2-Butanone | 6.896 | 43 | 74559 | 99.075 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 84303 | 18.466 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 63846 | 21.345 | ug/l | 97 |
| 28) Bromochloromethane | 7.250 | 49 | 27683 | 16.994 | ug/l | 96 |
| 29) Tetrahydrofuran | 7.268 | 42 | 50035 | 105.321 | ug/l | 99 |
| 30) Chloroform | 7.427 | 83 | 107747 | 18.928 | ug/l | 98 |
| 31) Cyclohexane | 7.701 | 56 | 90313 | 19.558 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 94090 | 21.207 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 75411 | 20.721 | ug/l | 99 |
| 37) Ethyl Acetate | 6.988 | 43 | 37099 | 21.671 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 85038 | 21.119 | ug/l | 93 |
| 39) Methylcyclohexane | 9.109 | 83 | 95987 | 20.236 | ug/l | 100 |
| 40) Benzene | 8.085 | 78 | 227976 | 21.371 | ug/l | 100 |

Sample Results: **VY020647.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121924\
Data File : VY020647.D
Acq On : 19 Dec 2024 11:53
Operator : SY/MD
Sample : VY1219SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 20 00:47:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1219SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/20/2024
Supervised By :Semsettin Yesilyurt 12/20/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.225 | 41 | 15207 | 16.803 | ug/l | # | 85 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 61160 | 21.617 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.201 | 43 | 69490 | 21.441 | ug/l | | 99 |
| 44) Trichloroethene | 8.865 | 130 | 56052 | 21.384 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 54493 | 21.857 | ug/l | | 98 |
| 46) Dibromomethane | 9.231 | 93 | 29599 | 22.464 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.426 | 83 | 76212 | 21.413 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 32186 | 20.890 | ug/l | | 96 |
| 49) 1,4-Dioxane | 9.237 | 88 | 6938 | 459.147 | ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 181234 | 105.942 | ug/l | | 99 |
| 52) Toluene | 10.170 | 92 | 142231 | 21.454 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 71410 | 21.532 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 84026 | 21.381 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 38316 | 21.995 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.444 | 69 | 54998 | 21.762 | ug/l | | 96 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 69158 | 22.270 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 113969 | 107.175 | ug/l | | 98 |
| 59) 2-Hexanone | 10.761 | 43 | 115614 | 105.263 | ug/l | | 97 |
| 60) Dibromochloromethane | 10.914 | 129 | 51946 | 22.297 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.017 | 107 | 36878 | 22.758 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.645 | 164 | 49209 | 21.133 | ug/l | | 98 |
| 65) Chlorobenzene | 11.444 | 112 | 151005 | 21.815 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 51570 | 21.787 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.517 | 91 | 270705 | 21.198 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 203604 | 42.880 | ug/l | | 99 |
| 69) o-Xylene | 11.956 | 106 | 95914 | 21.650 | ug/l | | 100 |
| 70) Styrene | 11.968 | 104 | 160252 | 21.650 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 29878 | 22.451 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 256085 | 21.076 | ug/l | | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 60196 | 21.169 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 45346 | 22.992 | ug/l | | 97 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 29715m | 20.544 | ug/l | | |
| 77) Bromobenzene | 12.535 | 156 | 56425 | 21.319 | ug/l | | 99 |
| 78) n-propylbenzene | 12.596 | 91 | 307113 | 20.979 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 176449 | 21.424 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 209105 | 21.209 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 15550 | 22.567 | ug/l | | 96 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 179017 | 20.951 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 185911 | 20.822 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.047 | 105 | 207246 | 21.430 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.176 | 105 | 271663 | 20.926 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 225018 | 21.022 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.291 | 146 | 111668 | 21.373 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 111847 | 21.614 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.621 | 91 | 208511 | 20.555 | ug/l | | 100 |
| 90) Hexachloroethane | 13.883 | 117 | 44930 | 21.182 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.663 | 146 | 98502 | 21.760 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 7038 | 21.979 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.925 | 180 | 55848 | 20.396 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 36777 | 20.546 | ug/l | | 99 |
| 95) Naphthalene | 15.151 | 128 | 100318 | 21.370 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 48835 | 21.109 | ug/l | | 99 |

Sample Results: **VY020647.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121924\
Data File : VY020647.D
Acq On : 19 Dec 2024 11:53
Operator : SY/MD
Sample : VY1219SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 20 00:47:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1219SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/20/2024
Supervised By :Semsettin Yesilyurt 12/20/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

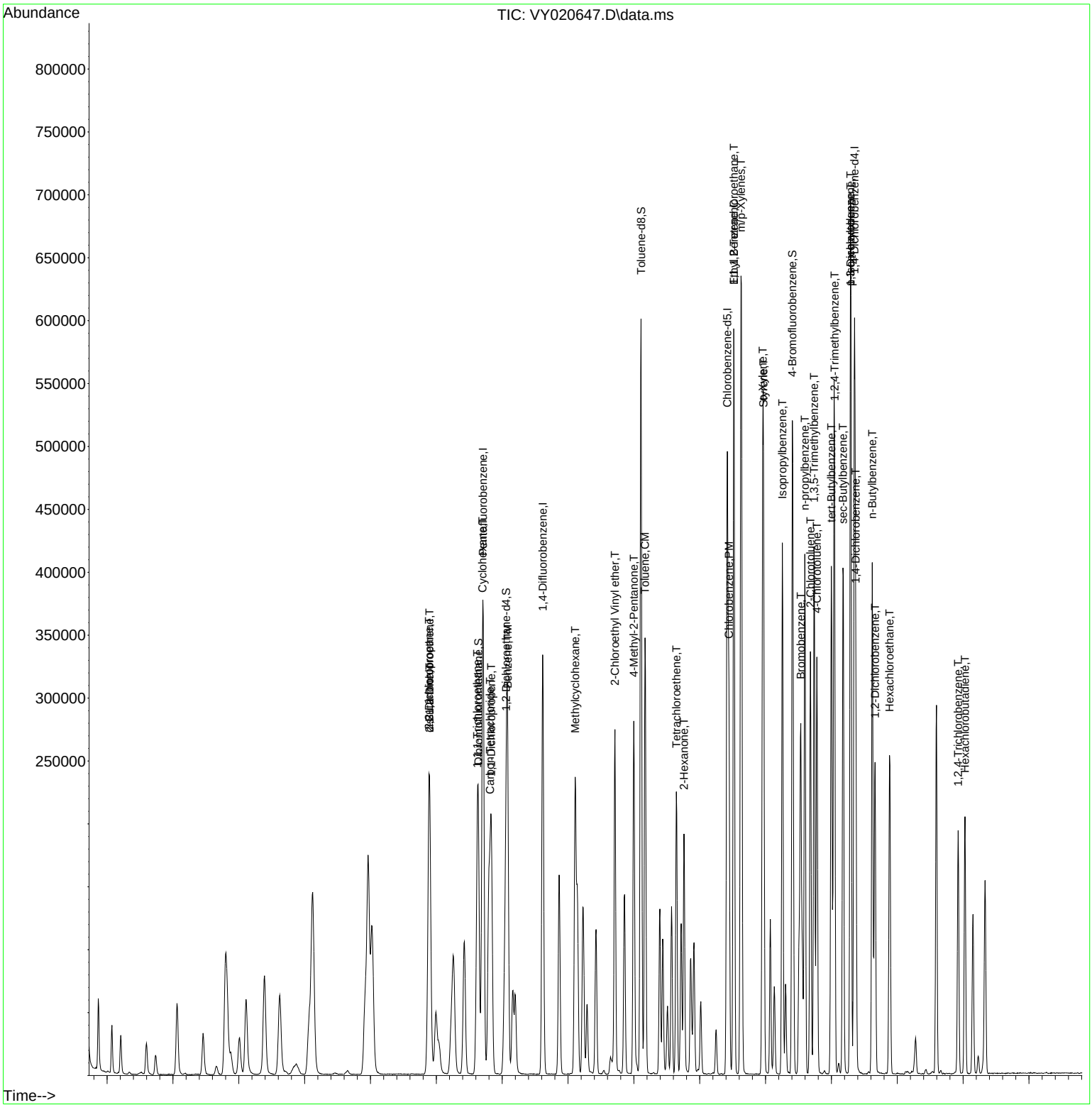
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121924\
Data File : VY020647.D
Acq On : 19 Dec 2024 11:53
Operator : SY/MD
Sample : VY1219SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 20 00:47:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1219SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/20/2024
Supervised By :Semsettin Yesilyurt 12/20/2024



Raw Data: **VY020627.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Kleinfelder | Date Collected: | |
| Project: | Tanner G. Duckrey Public School | Date Received: | |
| Client Sample ID: | VY1218SBSD01 | SDG No.: | P5277 |
| Lab Sample ID: | VY1218SBSD01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020627.D | 1 | | 12/18/24 11:42 | VY121824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 156-59-2 | cis-1,2-Dichloroethene | 20.8 | | 0.61 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 20.8 | | 0.78 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 20.7 | | 0.72 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 20.7 | | 0.75 | 5.00 | ug/Kg |
| 108-88-3 | Toluene | 20.4 | | 0.67 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 20.3 | | 0.62 | 5.00 | ug/Kg |
| 1330-20-7 | Total Xylenes | 61.2 | | 2.10 | 15.0 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 20.1 | | 0.67 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 51.7 | | 50 - 163 | 103% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.1 | | 54 - 147 | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.5 | | 58 - 134 | 103% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 48.3 | | 29 - 146 | 97% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 153000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 244000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 215000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 121000 | 13.347 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020627.D
Acq On : 18 Dec 2024 11:42
Operator : SY/MD
Sample : VY1218SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 18 14:21:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1218SBSD01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 153098 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 244096 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 214944 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 120747 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 86732 | 51.726 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 103.460% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 86233 | 50.126 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.260% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 310144 | 51.507 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 103.020% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 113747 | 48.292 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 96.580% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 38435 | 20.099 | ug/l | 97 |
| 3) Chloromethane | 2.074 | 50 | 26666 | 18.820 | ug/l | 98 |
| 4) Vinyl Chloride | 2.208 | 62 | 25628 | 19.433 | ug/l | 95 |
| 5) Bromomethane | 2.592 | 94 | 17707 | 20.888 | ug/l | 100 |
| 6) Chloroethane | 2.739 | 64 | 16084 | 19.737 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 54495 | 19.749 | ug/l | 97 |
| 8) Diethyl Ether | 3.458 | 74 | 18841 | 19.469 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 38613 | 19.522 | ug/l | 100 |
| 10) Methyl Iodide | 4.007 | 142 | 45735 | 20.769 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.860 | 59 | 18625 | 82.982 | ug/l # | 86 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 36924 | 19.240 | ug/l | 96 |
| 13) Acrolein | 3.659 | 56 | 8392 | 105.846 | ug/l | 98 |
| 14) Allyl chloride | 4.385 | 41 | 71890 | 21.378 | ug/l | 99 |
| 15) Acrylonitrile | 5.068 | 53 | 47243 | 102.042 | ug/l | 100 |
| 16) Acetone | 3.873 | 43 | 32300 | 92.921 | ug/l | 95 |
| 17) Carbon Disulfide | 4.104 | 76 | 128006 | 20.491 | ug/l | 99 |
| 18) Methyl Acetate | 4.397 | 43 | 24304 | 21.304 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 105197 | 21.238 | ug/l | 99 |
| 20) Methylene Chloride | 4.622 | 84 | 43686 | 20.955 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 43916 | 20.400 | ug/l | 96 |
| 22) Diisopropyl ether | 6.019 | 45 | 148554 | 21.763 | ug/l | 95 |
| 23) Vinyl Acetate | 5.964 | 43 | 408423 | 105.645 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 85392 | 21.354 | ug/l | 98 |
| 25) 2-Butanone | 6.896 | 43 | 60654 | 97.337 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 70010 | 18.520 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 51600 | 20.834 | ug/l | 99 |
| 28) Bromochloromethane | 7.250 | 49 | 24611 | 18.246 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.262 | 42 | 40544 | 103.068 | ug/l | 99 |
| 30) Chloroform | 7.421 | 83 | 88937 | 18.850 | ug/l | 98 |
| 31) Cyclohexane | 7.701 | 56 | 76241 | 19.940 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 76355 | 20.784 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 62499 | 19.924 | ug/l | 99 |
| 37) Ethyl Acetate | 6.988 | 43 | 28092 | 19.038 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 69992 | 20.167 | ug/l | 95 |
| 39) Methylcyclohexane | 9.110 | 83 | 79720 | 19.499 | ug/l | 98 |
| 40) Benzene | 8.079 | 78 | 190548 | 20.723 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020627.D
Acq On : 18 Dec 2024 11:42
Operator : SY/MD
Sample : VY1218SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 18 14:21:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1218SBSD01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 15591 | 19.986 ug/l # | 92 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 50556 | 20.731 ug/l | 100 |
| 43) Isopropyl Acetate | 8.201 | 43 | 56566 | 20.249 ug/l # | 88 |
| 44) Trichloroethene | 8.866 | 130 | 46762 | 20.697 ug/l | 94 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 44913 | 20.900 ug/l | 93 |
| 46) Dibromomethane | 9.231 | 93 | 23137 | 20.372 ug/l | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 64097 | 20.894 ug/l | 96 |
| 48) Methyl methacrylate | 9.219 | 41 | 26036 | 19.605 ug/l | 97 |
| 49) 1,4-Dioxane | 9.231 | 88 | 4955 | 380.438 ug/l # | 96 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 143998 | 97.658 ug/l | 100 |
| 52) Toluene | 10.170 | 92 | 116834 | 20.446 ug/l | 97 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 59267 | 20.733 ug/l | 97 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 69750 | 20.591 ug/l | 98 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 31492 | 20.973 ug/l | 99 |
| 56) Ethyl methacrylate | 10.439 | 69 | 44249 | 20.313 ug/l | 99 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 55078 | 20.577 ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 96709 | 105.511 ug/l | 100 |
| 59) 2-Hexanone | 10.762 | 43 | 93397 | 98.655 ug/l | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 41457 | 20.645 ug/l | 97 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 28993 | 20.758 ug/l | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 40481 | 20.022 ug/l | 92 |
| 65) Chlorobenzene | 11.438 | 112 | 122990 | 20.464 ug/l | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.512 | 131 | 44028 | 21.424 ug/l | 100 |
| 67) Ethyl Benzene | 11.518 | 91 | 224839 | 20.278 ug/l | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 167194 | 40.556 ug/l | 100 |
| 69) o-Xylene | 11.957 | 106 | 79188 | 20.587 ug/l | 99 |
| 70) Styrene | 11.969 | 104 | 134103 | 20.867 ug/l | 99 |
| 71) Bromoform | 12.133 | 173 | 23868 | 20.657 ug/l # | 100 |
| 73) Isopropylbenzene | 12.255 | 105 | 212192 | 20.138 ug/l | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 49369 | 20.020 ug/l | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 35934 | 21.009 ug/l | 96 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 25214m | 20.102 ug/l | |
| 77) Bromobenzene | 12.530 | 156 | 47727 | 20.794 ug/l | 98 |
| 78) n-propylbenzene | 12.597 | 91 | 256750 | 20.224 ug/l | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 145869 | 20.423 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 174821 | 20.447 ug/l | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 11485 | 19.219 ug/l | 98 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 152691 | 20.606 ug/l | 99 |
| 83) tert-Butylbenzene | 12.999 | 119 | 159815 | 20.640 ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 171781 | 20.483 ug/l | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 227197 | 20.180 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 188392 | 20.296 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 91586 | 20.214 ug/l | 98 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 91045 | 20.289 ug/l | 98 |
| 89) n-Butylbenzene | 13.621 | 91 | 174537 | 19.840 ug/l | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 37017 | 20.123 ug/l | 99 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 81563 | 20.777 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 5446 | 19.612 ug/l | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 47095 | 19.833 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 30799 | 19.841 ug/l | 99 |
| 95) Naphthalene | 15.145 | 128 | 81118 | 19.926 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 40302 | 20.088 ug/l | 99 |

Sample Results: **VY020627.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020627.D
Acq On : 18 Dec 2024 11:42
Operator : SY/MD
Sample : VY1218SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 18 14:21:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1218SBSD01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **VY020627.D**

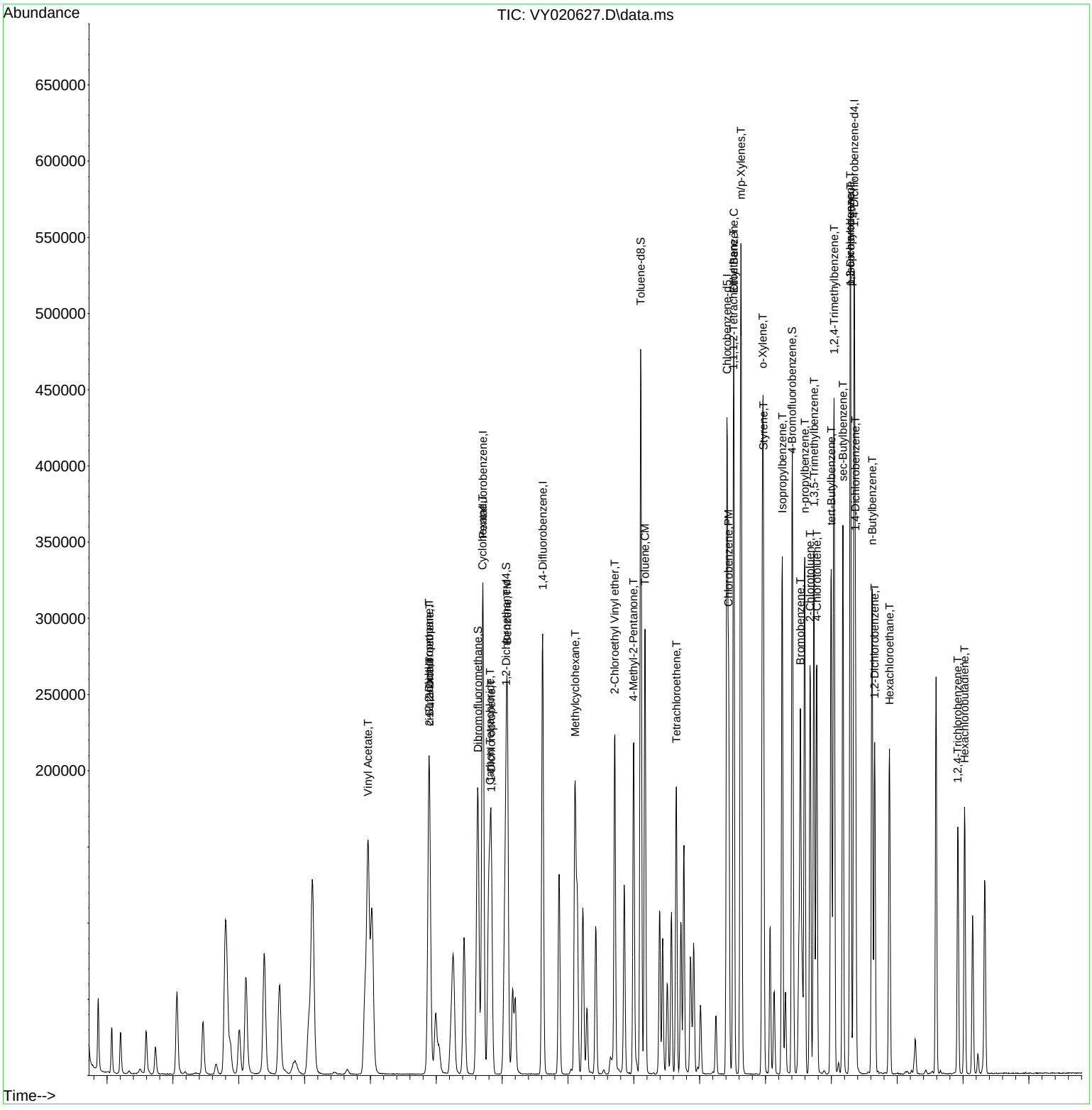
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020627.D
Acq On : 18 Dec 2024 11:42
Operator : SY/MD
Sample : VY1218SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 18 14:21:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1218SBSD01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

# Manual Integration Report

| Sequence: | VY121724 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC010 | VY020613.D | 1,2,3-Trichloropropane | MMDadoda | 12/18/2024 8:36:29 AM | SAM | 12/18/2024 8:50:42 AM | Peak Integrated by Software |
| VSTDICC020 | VY020614.D | 1,2,3-Trichloropropane | MMDadoda | 12/18/2024 8:36:31 AM | SAM | 12/18/2024 8:50:43 AM | Peak Integrated by Software |
| VSTDICCC050 | VY020615.D | 1,2,3-Trichloropropane | MMDadoda | 12/18/2024 8:36:34 AM | SAM | 12/18/2024 8:50:47 AM | Peak Integrated by Software |
| VSTDICC100 | VY020616.D | 1,2,3-Trichloropropane | MMDadoda | 12/18/2024 8:36:37 AM | SAM | 12/18/2024 8:50:48 AM | Peak Integrated by Software |
| VSTDICC150 | VY020617.D | 1,2,3-Trichloropropane | MMDadoda | 12/18/2024 8:36:38 AM | SAM | 12/18/2024 8:50:50 AM | Peak Integrated by Software |
| VSTDICC005 | VY020619.D | 1,2,3-Trichloropropane | MMDadoda | 12/18/2024 8:36:41 AM | SAM | 12/18/2024 8:50:52 AM | Peak Integrated by Software |
| VSTDICC005 | VY020619.D | Methacrylonitrile | MMDadoda | 12/18/2024 8:36:41 AM | SAM | 12/18/2024 8:50:52 AM | Peak Integrated by Software |
| VSTDICV050 | VY020620.D | 1,2,3-Trichloropropane | Romaben | 12/18/2024 8:31:07 AM | MMDadoda | 12/18/2024 8:36:43 AM | Peak Integrated by Software |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

# Manual Integration Report

| Sequence: | VY121824 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICV050 | VY020623.D | 1,2,3-Trichloropropane | Romaben | 12/19/2024 9:18:44 AM | SAM | 12/19/2024 2:49:07 PM | Peak Integrated by Software |
| VSTDCCC050 | VY020624.D | 1,2,3-Trichloropropane | Romaben | 12/19/2024 9:18:47 AM | SAM | 12/19/2024 2:49:08 PM | Peak Integrated by Software |
| VY1218SBS01 | VY020626.D | 1,2,3-Trichloropropane | Romaben | 12/19/2024 9:18:51 AM | SAM | 12/19/2024 2:49:10 PM | Peak Integrated by Software |
| VY1218SBSD01 | VY020627.D | 1,2,3-Trichloropropane | Romaben | 12/19/2024 9:18:54 AM | SAM | 12/19/2024 2:49:10 PM | Peak Integrated by Software |
| VSTDCCC050 | VY020643.D | 1,2,3-Trichloropropane | Romaben | 12/19/2024 9:18:40 AM | SAM | 12/19/2024 2:49:13 PM | Peak Integrated by Software |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

# Manual Integration Report

| Sequence: | VY121924 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VY020645.D | 1,2,3-Trichloropropane | MMDadoda | 12/20/2024 10:52:39 AM | SAM | 12/20/2024 10:57:13 AM | Peak Integrated by Software |
| VY1219SBS01 | VY020647.D | 1,2,3-Trichloropropane | MMDadoda | 12/20/2024 10:52:40 AM | SAM | 12/20/2024 10:57:14 AM | Peak Integrated by Software |
| VSTDCCC050 | VY020662.D | 1,2,3-Trichloropropane | MMDadoda | 12/20/2024 10:52:46 AM | SAM | 12/20/2024 10:57:18 AM | Peak Integrated by Software |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY121724

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 12/18/2024 8:38:34 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/18/2024 8:51:04 AM | | |
| SubDirectory | VY121724 | HP Acquire Method | | HP Processing Method | 82y121724s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132182 |
| Initial Calibration Stds | VP132183,VP132184,VP132185,VP132186,VP132187,VP132188 |
| CCC | |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | VP132189 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY020611.D | 17 Dec 2024 09:00 | SY/MD | Ok |
| 2 | VSTDICC005 | VY020612.D | 17 Dec 2024 09:38 | SY/MD | Ok |
| 3 | VSTDICC010 | VY020613.D | 17 Dec 2024 10:01 | SY/MD | Ok,M |
| 4 | VSTDICC020 | VY020614.D | 17 Dec 2024 10:23 | SY/MD | Ok,M |
| 5 | VSTDICCC050 | VY020615.D | 17 Dec 2024 10:51 | SY/MD | Ok,M |
| 6 | VSTDICC100 | VY020616.D | 17 Dec 2024 11:14 | SY/MD | Ok,M |
| 7 | VSTDICC150 | VY020617.D | 17 Dec 2024 11:37 | SY/MD | Ok,M |
| 8 | VIBLK | VY020618.D | 17 Dec 2024 12:24 | SY/MD | Ok |
| 9 | VSTDICC005 | VY020619.D | 17 Dec 2024 14:51 | SY/MD | Ok,M |
| 10 | VSTDICV050 | VY020620.D | 17 Dec 2024 17:41 | SY/MD | Ok,M |

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY121824

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 12/19/2024 2:48:41 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/19/2024 2:49:14 PM | | |
| SubDirectory | VY121824 | HP Acquire Method | | HP Processing Method | 82y121724s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132202 |
| Initial Calibration Stds | |
| CCC | VP132203,VP132204 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY020622.D | 18 Dec 2024 08:46 | SY/MD | Ok |
| 2 | VSTDICV050 | VY020623.D | 18 Dec 2024 09:43 | SY/MD | Ok,M |
| 3 | VSTDCCC050 | VY020624.D | 18 Dec 2024 10:06 | SY/MD | Ok,M |
| 4 | VY1218SBL01 | VY020625.D | 18 Dec 2024 10:52 | SY/MD | Ok |
| 5 | VY1218SBS01 | VY020626.D | 18 Dec 2024 11:19 | SY/MD | Ok,M |
| 6 | VY1218SBSD01 | VY020627.D | 18 Dec 2024 11:42 | SY/MD | Ok,M |
| 7 | P5277-01 | VY020628.D | 18 Dec 2024 12:05 | SY/MD | Not Ok |
| 8 | P5277-02 | VY020629.D | 18 Dec 2024 12:33 | SY/MD | Ok |
| 9 | P5277-03 | VY020630.D | 18 Dec 2024 12:57 | SY/MD | Ok |
| 10 | P5287-01 | VY020631.D | 18 Dec 2024 13:20 | SY/MD | Ok |
| 11 | P5287-03 | VY020632.D | 18 Dec 2024 13:44 | SY/MD | Ok |
| 12 | P5312-03 | VY020633.D | 18 Dec 2024 14:07 | SY/MD | ReRun |
| 13 | P5312-01 | VY020634.D | 18 Dec 2024 14:30 | SY/MD | ReRun |
| 14 | P5299-04 | VY020635.D | 18 Dec 2024 14:54 | SY/MD | Ok |
| 15 | P5301-03 | VY020636.D | 18 Dec 2024 15:17 | SY/MD | ReRun |
| 16 | P5277-02 | VY020637.D | 18 Dec 2024 15:41 | SY/MD | Not Ok |
| 17 | P5301-01 | VY020638.D | 18 Dec 2024 16:04 | SY/MD | Ok |
| 18 | P5299-02 | VY020639.D | 18 Dec 2024 16:27 | SY/MD | Ok |
| 19 | P5299-03 | VY020640.D | 18 Dec 2024 16:51 | SY/MD | Ok |
| 20 | P5279-03 | VY020641.D | 18 Dec 2024 17:14 | SY/MD | Not Ok |
| 21 | P5299-01 | VY020642.D | 18 Dec 2024 17:38 | SY/MD | Ok |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY121824

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 12/19/2024 2:48:41 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/19/2024 2:49:14 PM | | |
| SubDirectory | VY121824 | HP Acquire Method | | HP Processing Method | 82y121724s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132202 |
| Initial Calibration Stds | |
| CCC | VP132203,VP132204 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | VSTDCCC050 | VY020643.D | 18 Dec 2024 18:00 | SY/MD | Ok,M |

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY121924

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 12/20/2024 10:52:52 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/20/2024 10:57:22 AM | | |
| SubDirectory | VY121924 | HP Acquire Method | | HP Processing Method | 82y121724s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132238 |
| Initial Calibration Stds | |
| CCC | VP132239,VP132240 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY020644.D | 19 Dec 2024 09:13 | SY/MD | Ok |
| 2 | VSTDCCC050 | VY020645.D | 19 Dec 2024 09:43 | SY/MD | Ok,M |
| 3 | VY1219SBL01 | VY020646.D | 19 Dec 2024 11:07 | SY/MD | Ok |
| 4 | VY1219SBS01 | VY020647.D | 19 Dec 2024 11:53 | SY/MD | Ok,M |
| 5 | VY1219SBSD01 | VY020648.D | 19 Dec 2024 12:16 | SY/MD | Ok,M |
| 6 | P5312-03RE | VY020649.D | 19 Dec 2024 12:52 | SY/MD | Confirms |
| 7 | P5312-01RE | VY020650.D | 19 Dec 2024 13:15 | SY/MD | Confirms |
| 8 | P5301-03RE | VY020651.D | 19 Dec 2024 13:39 | SY/MD | Confirms |
| 9 | P5306-01 | VY020652.D | 19 Dec 2024 14:02 | SY/MD | ReRun |
| 10 | P5306-03 | VY020653.D | 19 Dec 2024 14:26 | SY/MD | Not Ok |
| 11 | P5306-05 | VY020654.D | 19 Dec 2024 14:49 | SY/MD | ReRun |
| 12 | P5306-07 | VY020655.D | 19 Dec 2024 15:12 | SY/MD | ReRun |
| 13 | P5306-09 | VY020656.D | 19 Dec 2024 15:36 | SY/MD | ReRun |
| 14 | P5306-11 | VY020657.D | 19 Dec 2024 15:59 | SY/MD | ReRun |
| 15 | P5306-13 | VY020658.D | 19 Dec 2024 16:23 | SY/MD | ReRun |
| 16 | P5343-01 | VY020659.D | 19 Dec 2024 16:46 | SY/MD | Ok |
| 17 | P5277-01 | VY020660.D | 19 Dec 2024 17:09 | SY/MD | Ok |
| 18 | P5343-03 | VY020661.D | 19 Dec 2024 17:33 | SY/MD | Ok |
| 19 | VSTDCCC050 | VY020662.D | 19 Dec 2024 17:56 | SY/MD | Ok,M |

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY121724

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 12/18/2024 8:38:34 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/18/2024 8:51:04 AM | | |
| SubDirectory | VY121724 | HP Acquire Method | | HP Processing Method | 82y121724s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132182 |
| Initial Calibration Stds | VP132183,VP132184,VP132185,VP132186,VP132187,VP132188 |
| CCC | |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | VP132189 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY020611.D | 17 Dec 2024 09:00 | | SY/MD | Ok |
| 2 | VSTDICC005 | VSTDICC005 | VY020612.D | 17 Dec 2024 09:38 | | SY/MD | Ok |
| 3 | VSTDICC010 | VSTDICC010 | VY020613.D | 17 Dec 2024 10:01 | Com #16,30 on LR | SY/MD | Ok,M |
| 4 | VSTDICC020 | VSTDICC020 | VY020614.D | 17 Dec 2024 10:23 | Com #11 on QR | SY/MD | Ok,M |
| 5 | VSTDICCC050 | VSTDICCC050 | VY020615.D | 17 Dec 2024 10:51 | Com #13 fail for method | SY/MD | Ok,M |
| 6 | VSTDICC100 | VSTDICC100 | VY020616.D | 17 Dec 2024 11:14 | | SY/MD | Ok,M |
| 7 | VSTDICC150 | VSTDICC150 | VY020617.D | 17 Dec 2024 11:37 | | SY/MD | Ok,M |
| 8 | VIBLK | VIBLK | VY020618.D | 17 Dec 2024 12:24 | | SY/MD | Ok |
| 9 | VSTDICC005 | VSTDICC005 | VY020619.D | 17 Dec 2024 14:51 | %D fail for com #11 | SY/MD | Ok,M |
| 10 | VSTDICV050 | ICVVY121724 | VY020620.D | 17 Dec 2024 17:41 | ICV fail for com #11,16 | SY/MD | Ok,M |

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY121824

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 12/19/2024 2:48:41 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/19/2024 2:49:14 PM | | |
| SubDirectory | VY121824 | HP Acquire Method | | HP Processing Method | 82y121724s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132202 |
| Initial Calibration Stds | |
| CCC | VP132203,VP132204 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY020622.D | 18 Dec 2024 08:46 | | SY/MD | Ok |
| 2 | VSTDICV050 | ICVVY121824 | VY020623.D | 18 Dec 2024 09:43 | | SY/MD | Ok,M |
| 3 | VSTDCCC050 | VSTDCCC050 | VY020624.D | 18 Dec 2024 10:06 | | SY/MD | Ok,M |
| 4 | VY1218SBL01 | VY1218SBL01 | VY020625.D | 18 Dec 2024 10:52 | | SY/MD | Ok |
| 5 | VY1218SBS01 | VY1218SBS01 | VY020626.D | 18 Dec 2024 11:19 | | SY/MD | Ok,M |
| 6 | VY1218SBSD01 | VY1218SBSD01 | VY020627.D | 18 Dec 2024 11:42 | | SY/MD | Ok,M |
| 7 | P5277-01 | COMP-1A | VY020628.D | 18 Dec 2024 12:05 | vial-A Not purged | SY/MD | Not Ok |
| 8 | P5277-02 | COMP-2A | VY020629.D | 18 Dec 2024 12:33 | vial-A | SY/MD | Ok |
| 9 | P5277-03 | COMP-3A | VY020630.D | 18 Dec 2024 12:57 | vial-A | SY/MD | Ok |
| 10 | P5287-01 | STONES-A | VY020631.D | 18 Dec 2024 13:20 | vial-A | SY/MD | Ok |
| 11 | P5287-03 | STONES-B | VY020632.D | 18 Dec 2024 13:44 | vial-A | SY/MD | Ok |
| 12 | P5312-03 | CONCRETE-VNJ-222 | VY020633.D | 18 Dec 2024 14:07 | vial-A Surrogate Fail | SY/MD | ReRun |
| 13 | P5312-01 | SOIL-VNJ-222 | VY020634.D | 18 Dec 2024 14:30 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 14 | P5299-04 | SB-02 | VY020635.D | 18 Dec 2024 14:54 | vial-A | SY/MD | Ok |
| 15 | P5301-03 | HR-04-121624 | VY020636.D | 18 Dec 2024 15:17 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 16 | P5277-02 | COMP-2A | VY020637.D | 18 Dec 2024 15:41 | vial-B NOT PURGE | SY/MD | Not Ok |
| 17 | P5301-01 | HR-01-121624 | VY020638.D | 18 Dec 2024 16:04 | vial-B | SY/MD | Ok |
| 18 | P5299-02 | SB-02 | VY020639.D | 18 Dec 2024 16:27 | vial-A | SY/MD | Ok |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY121824

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 12/19/2024 2:48:41 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/19/2024 2:49:14 PM | | |
| SubDirectory | VY121824 | HP Acquire Method | | HP Processing Method | 82y121724s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132202 |
| Initial Calibration Stds | |
| CCC | VP132203,VP132204 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P5299-03 | SB-01 | VY020640.D | 18 Dec 2024 16:51 | vial-A | SY/MD | Ok |
| 20 | P5279-03 | ROCKAWAY-PARK | VY020641.D | 18 Dec 2024 17:14 | vial-A NOT PURGE | SY/MD | Not Ok |
| 21 | P5299-01 | SB-01 | VY020642.D | 18 Dec 2024 17:38 | vial-A | SY/MD | Ok |
| 22 | VSTDCCC050 | VSTDCCC050EC | VY020643.D | 18 Dec 2024 18:00 | | SY/MD | Ok,M |

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY121924

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 12/20/2024 10:52:52 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/20/2024 10:57:22 AM | | |
| SubDirectory | VY121924 | HP Acquire Method | | HP Processing Method | 82y121724s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132238 |
| Initial Calibration Stds | |
| CCC | VP132239,VP132240 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY020644.D | 19 Dec 2024 09:13 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VY020645.D | 19 Dec 2024 09:43 | | SY/MD | Ok,M |
| 3 | VY1219SBL01 | VY1219SBL01 | VY020646.D | 19 Dec 2024 11:07 | | SY/MD | Ok |
| 4 | VY1219SBS01 | VY1219SBS01 | VY020647.D | 19 Dec 2024 11:53 | BS low for com #12 | SY/MD | Ok,M |
| 5 | VY1219SBSD01 | VY1219SBSD01 | VY020648.D | 19 Dec 2024 12:16 | | SY/MD | Ok,M |
| 6 | P5312-03RE | CONCRETE-VNJ-222R | VY020649.D | 19 Dec 2024 12:52 | vial- B BS low; Internal standard fail | SY/MD | Confirms |
| 7 | P5312-01RE | SOIL-VNJ-222RE | VY020650.D | 19 Dec 2024 13:15 | vial- B BS low; Internal standard fail | SY/MD | Confirms |
| 8 | P5301-03RE | HR-04-121624RE | VY020651.D | 19 Dec 2024 13:39 | vial- B BS low; ISTD Fail | SY/MD | Confirms |
| 9 | P5306-01 | OU4-VSL-07-121224 | VY020652.D | 19 Dec 2024 14:02 | vial- B End CCC fail | SY/MD | ReRun |
| 10 | P5306-03 | OU4-VSL-08-121224 | VY020653.D | 19 Dec 2024 14:26 | vial- A End CCC fail; Not purge | SY/MD | Not Ok |
| 11 | P5306-05 | OU4-VSL-09-121224 | VY020654.D | 19 Dec 2024 14:49 | vial- A End CCC fail; Surrogate fail | SY/MD | ReRun |
| 12 | P5306-07 | OU4-VSL-10-121224 | VY020655.D | 19 Dec 2024 15:12 | vial- A End CCC fail; Internal standard fail; Surrogate fail | SY/MD | ReRun |
| 13 | P5306-09 | OU4-VSL-11-121224 | VY020656.D | 19 Dec 2024 15:36 | vial- A End CCC fail; Surrogate fail | SY/MD | ReRun |
| 14 | P5306-11 | OU4-VSL-12-121224 | VY020657.D | 19 Dec 2024 15:59 | vial- A End CCC fail; Surrogate fail | SY/MD | ReRun |
| 15 | P5306-13 | OU4-VSL-13-121224 | VY020658.D | 19 Dec 2024 16:23 | vial- A End CCC fail; Surrogate fail | SY/MD | ReRun |
| 16 | P5343-01 | VNJ210 | VY020659.D | 19 Dec 2024 16:46 | vial- A Internal standard fail | SY/MD | Ok |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY121924

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 12/20/2024 10:52:52 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/20/2024 10:57:22 AM | | |
| SubDirectory | VY121924 | HP Acquire Method | | HP Processing Method | 82y121724s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132238 |
| Initial Calibration Stds | |
| CCC | VP132239,VP132240 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 17 | P5277-01 | COMP-1A | VY020660.D | 19 Dec 2024 17:09 | vial- B | SY/MD | Ok |
| 18 | P5343-03 | VNJ281 | VY020661.D | 19 Dec 2024 17:33 | | SY/MD | Ok |
| 19 | VSTDCCC050 | VSTDCCC050EC | VY020662.D | 19 Dec 2024 17:56 | CCC fail for many comp. | SY/MD | Ok,M |

M : Manual Integration

Alliance TECHNICAL GROUP

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 12/16/2024

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:00
**In Date:** 12/13/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:25
**Out Date:** 12/14/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB133946

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|
| P5277-01 | COMP-1A | 1 | 1.15 | 8.66 | 9.81 | 8.81 | 88.5 | |
| P5277-02 | COMP-2A | 2 | 1.16 | 8.64 | 9.8 | 7.98 | 78.9 | |
| P5277-03 | COMP-3A | 3 | 1.19 | 8.45 | 9.64 | 8.79 | 89.9 | |
| P5277-04 | SB-13 | 4 | 1.14 | 8.61 | 9.75 | 8.89 | 90.0 | |
| P5277-05 | SB-14 | 5 | 1.15 | 8.81 | 9.96 | 9.14 | 90.7 | |
| P5277-06 | SB-15 | 6 | 1.18 | 8.74 | 9.92 | 9.08 | 90.4 | |
| P5277-07 | SB-16 | 7 | 1.15 | 8.81 | 9.96 | 8.68 | 85.5 | |
| P5277-08 | SB-17 | 8 | 1.12 | 8.86 | 9.98 | 7.98 | 77.4 | |
| P5277-09 | SB-18 | 9 | 1.16 | 8.74 | 9.9 | 8.34 | 82.2 | |
| P5277-10 | SB-19 | 10 | 1.14 | 8.83 | 9.97 | 8.42 | 82.4 | |
| P5277-11 | SB-20 | 11 | 1.19 | 8.52 | 9.71 | 8.13 | 81.5 | |
| P5277-12 | SB-21 | 12 | 1.17 | 8.72 | 9.89 | 9.05 | 90.4 | |
| P5277-13 | SB-22 | 13 | 1.15 | 8.80 | 9.95 | 9.03 | 89.5 | |
| P5277-14 | SB-23 | 14 | 1.14 | 8.61 | 9.75 | 8.51 | 85.6 | |
| P5277-15 | SB-24 | 15 | 1.16 | 8.40 | 9.56 | 8.68 | 89.5 | |
| P5279-01 | ROCKAWAY-PARK | 16 | 1.18 | 8.47 | 9.65 | 9.11 | 93.6 | |
| P5279-03 | ROCKAWAY-PARK | 17 | 1.15 | 8.50 | 9.65 | 9.14 | 94.0 | |
| P5287-01 | STONES-A | 18 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | stone sample, 100 % solids |
| P5287-02 | STONES-A-E2 | 19 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | stone sample, 100 % solids |
| P5287-03 | STONES-B | 20 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | stone sample, 100 % solids |
| P5287-04 | STONES-B-E2 | 21 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | stone sample, 100 % solids |
| P5288-05 | SVOC-GPC-BLANK | 22 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P5288-06 | PEST-GPC-BLANK | 23 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P5288-07 | PEST-GPC-BLANK-SPIKE | 24 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P5288-08 | PCB-GPC-BLANK | 25 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P5288-09 | PCB-GPC-BLANK-SPIKE | 26 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P5288-10 | SVOC-GPC2-BLANK | 27 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P5288-11 | PEST-GPC2-BLANK | 28 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 12/16/2024

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:00
**In Date:** 12/13/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:25
**Out Date:** 12/14/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB133946

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|
| P5288-12 | PEST-GPC2-BLANK-SPIKE | 29 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P5288-13 | PCB-GPC2-BLANK | 30 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P5288-14 | PCB-GPC2-BLANK-SPIKE | 31 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$


# SHIPPING DOCUMENTS

# CHEMTECH
## CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. P5277
COC Number 2042290

### CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Kleinfelder
ADDRESS: 25 Gold Drive
CITY Hamilton STATE: NJ ZIP: 08691
ATTENTION: Mark Warchol
PHONE: 484-883-3892 FAX:

### CLIENT PROJECT INFORMATION

PROJECT NAME: Duckrey School
PROJECT NO.: 20004341.001A LOCATION: Philadelphia, PA
PROJECT MANAGER: Mark Warchol
e-mail: mwarchol@kleinfelder.com
PHONE: 484-883-3892 FAX:

### CLIENT BILLING INFORMATION

BILL TO: Same PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

### DATA TURNAROUND INFORMATION

FAX (RUSH) 5 DAYS*
HARDCOPY (DATA PACKAGE): 5 DAYS*
EDD: 5 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

### DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☑ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other
☐ EDD FORMAT

### ANALYSIS

1 HAVEP List: Fill Clean E-F Parameters 2 3 4 5 6 7 8 9

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | COMP-1A | Soil | ✓ | | 12/12/24 | 3 | 10:40 | E | | | | | | | | | |
| 2. | COMP-2A | | ↓ | | | ↓ | 11:05 | ✓ | | | | | | | | | |
| 3. | COMP-3A | | ↓ | | | ↓ | 11:45 | | | | | | | | | | |
| 4. | SB-13 | | | ✓ | | 1 | 10:10 | | | | | | | | | | |
| 5. | SB-14 | | | ↓ | | ↓ | 10:20 | | | | | | | | | | |
| 6. | SB-15 | | | | | | 10:25 | | | | | | | | | | |
| 7. | SB-16 | | | | | | 10:35 | | | | | | | | | | |
| 8. | SB-17 | | | | | | 10:45 | | | | | | | | | | |
| 9. | SB-18 | ↓ | | ↓ | ↓ | ↓ | 10:50 | ↓ | | | | | | | | | |
| 10. | SB-19 | | | | | | 10:55 | | | | | | | | | | |

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

### SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. | 12/12/14 15:00 | 1. |
| 2. FedEx | 12-13-24 820 | 2. |
| 3. | | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 4.3°C °C
Comments: Put grabs on hold until further notice

Page 1 of 2

CLIENT: ☐ Hand Delivered ☑ Other FedEx
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO



WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

# CHEMTECH
## CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. P5277
QUOTE NO.
COC Number 2041891

### CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Kleinfelder
ADDRESS: 25 Gold Drive
CITY Hamilton STATE: NJ ZIP: 08691
ATTENTION: Mark Warchol
PHONE: 484-883-3890 FAX:

### CLIENT PROJECT INFORMATION

PROJECT NAME: Duckrey School
PROJECT NO.: 24004341.001A LOCATION: Philadelphia, PA
PROJECT MANAGER: Mark Warchol
e-mail: mwarchol@kleinfelder.com
PHONE: 484-883-3892 FAX:

### CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS: Same
CITY STATE: ZIP:
ATTENTION: PHONE:

### DATA TURNAROUND INFORMATION

FAX (RUSH) 5 DAYS*
HARDCOPY (DATA PACKAGE): 5 DAYS*
EDD: 5 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

### DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☑ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ EDD FORMAT
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other

### ANALYSIS

PADEP HSF Full TCL + Full E-II Parameters

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | E | | | | | | | | | ← Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER |
| 1. | SB-20 | Soil | | ✓ | 12/12/24 | 11:00 | 1 | ✓ | | | | | | | | | |
| 2. | SB-21 | | | | | 11:15 | | | | | | | | | | | |
| 3. | SB-22 | | | | | 11:25 | | | | | | | | | | | |
| 4. | SB-23 | | | | | 11:30 | | | | | | | | | | | |
| 5. | SB-24 | | | | | 11:40 | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | |

### SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. | 12/12/24 15:00 | 1. |
| 2. FedEx | 12-13-24 11:20 | 2. |
| 3. | | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 4.3°C
Comments: Put grabs on hold until further notice

Page 2 of 2

CLIENT: ☐ Hand Delivered ☑ Other FedEx
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO



WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# Laboratory Certification

| Certified By | License No. |
|---|---|
| | |
| CAS EPA CLP Contract | 68HERH20D0011 |
| | |
| Connecticut | PH-0830 |
| | |
| DOD ELAP (ANAB) | L2219 |
| | |
| Maine | 2024021 |
| | |
| Maryland | 296 |
| | |
| New Hampshire | 255424 Rev 1 |
| | |
| New Jersey | 20012 |
| | |
| New York | 11376 |
| | |
| Pennsylvania | 68-00548 |
| | |
| Soil Permit | 525-24-234-08441 |
| | |
| Texas | T104704488 |

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** P5277 POWE02
**Client Name :** Kleinfelder
**Client Contact :** Mark Warchol
**Invoice Name :** Kleinfelder
**Invoice Contact :** Mark Warchol

**Order Date :** 12/13/2024 11:44:00 AM
**Project Name :** Tanner G. Duckrey Public S
**Receive DateTime :** 12/13/2024 11:20:00 AM
**Purchase Order :**

**Project Mgr :**
**Report Type :** Results+QC
**EDD Type :** EXCEL NOCLEANUP
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| P5277-01 | COMP-1A | Solid | 12/12/2024 | 10:40 | | | | | 5 Bus. Days |
| | | | | | VOCMS Group1 | | 8260D | | ~~3 Bus. Days~~ |
| P5277-02 | COMP-2A | Solid | 12/12/2024 | 11:05 | | | | | 5 Bus. Days |
| | | | | | VOCMS Group1 | | 8260D | | ~~3 Bus. Days~~ |
| P5277-03 | COMP-3A | Solid | 12/12/2024 | 11:45 | | | | | 5 Bus. Days |
| | | | | | VOCMS Group1 | | 8260D | | ~~3 Bus. Days~~ |

**Relinguished By :**
**Date / Time :** 12/13/24 1212

**Received By :**
**Date / Time :** 12/13/24 12:12

**Storage Area :** VOA Refridgerator Room