CHEMTECH 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 |

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | O5252 | **OrderDate:** | 11/3/2023 2:14:16 PM |
| **Client:** | RMJ Environomics, Inc. | **Project:** | 245 Greenwood Ave |
| **Contact:** | Jonathan Pereira | **Location:** | I31,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **O5252-03** | **WASTE-VOC** | **SOIL** | | | **11/03/23** | | | **11/03/23** |
| | | | VOC-TCLVOA-10 | 8260D | | | 11/07/23 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** O5252

**Client:** RMJ Environomics, Inc.

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID:** | **WASTE-VOC** | | | | | | | |
| O5252-03 | WASTE-VOC | SOIL | Methylene Chloride | 37.5 | B | 6.10 | 10.1 | ug/Kg |
| | | | **Total Voc :** | 37.5 | | | | |
| | | | **Total Concentration:** | 37.5 | | | | |

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# QC SUMMARY

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# Surrogate Summary

**SDG No.:** O5252

**Client:** RMJ Environomics, Inc.

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| O5252-03 | WASTE-VOC | 1,2-Dichloroethane-d4 | 50 | 58.6 | 117 | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 49.7 | 99 | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 49.0 | 98 | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 43.6 | 87 | 70 (39) | 130 (149) |
| VY1107SBL01 | VY1107SBL01 | 1,2-Dichloroethane-d4 | 50 | 62.4 | 125 | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 49.2 | 98 | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 49.6 | 99 | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 51.2 | 102 | 70 (39) | 130 (149) |
| VY1107SBS01 | VY1107SBS01 | 1,2-Dichloroethane-d4 | 50 | 52.4 | 105 | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 50.2 | 100 | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 50.0 | 100 | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 48.4 | 97 | 70 (39) | 130 (149) |
| VY1107SBSD01 | VY1107SBSD01 | 1,2-Dichloroethane-d4 | 50 | 53.4 | 107 | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 50.2 | 100 | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 50.8 | 102 | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 50.1 | 100 | 70 (39) | 130 (149) |

( ) = LABORATORY INHOUSE LIMIT

( ) = LABORATORY INHOUSE LIMIT

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**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary**
**SW-846**

**SDG No.:** O5252

**Client:** RMJ Environomics, Inc.

**Analytical Method:** SW8260D **Datafile :** VY016245.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1107SBS01 | Dichlorodifluoromethane | 20 | 17.9 | ug/Kg | 90 | | | 40 (64) | 160 (136) | |
| | Chloromethane | 20 | 15.9 | ug/Kg | 79 | | | 40 (70) | 160 (130) | |
| | Vinyl chloride | 20 | 17.4 | ug/Kg | 87 | | | 70 (72) | 130 (129) | |
| | Bromomethane | 20 | 17.3 | ug/Kg | 86 | | | 40 (58) | 160 (141) | |
| | Chloroethane | 20 | 17.8 | ug/Kg | 89 | | | 40 (69) | 160 (130) | |
| | Trichlorofluoromethane | 20 | 20.0 | ug/Kg | 100 | | | 40 (69) | 160 (134) | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 20.8 | ug/Kg | 104 | | | 70 (81) | 130 (123) | |
| | 1,1-Dichloroethene | 20 | 19.4 | ug/Kg | 97 | | | 70 (79) | 130 (121) | |
| | Acetone | 100 | 96.7 | ug/Kg | 97 | | | 40 (60) | 160 (131) | |
| | Carbon disulfide | 20 | 15.1 | ug/Kg | 76 | | | 40 (45) | 160 (154) | |
| | Methyl tert-butyl Ether | 20 | 21.3 | ug/Kg | 106 | | | 70 (77) | 130 (129) | |
| | Methyl Acetate | 20 | 22.0 | ug/Kg | 110 | | | 70 (69) | 130 (149) | |
| | Methylene Chloride | 20 | 20.0 | ug/Kg | 100 | | | 70 (39) | 130 (175) | |
| | trans-1,2-Dichloroethene | 20 | 19.0 | ug/Kg | 95 | | | 70 (80) | 130 (123) | |
| | 1,1-Dichloroethane | 20 | 21.0 | ug/Kg | 105 | | | 70 (82) | 130 (123) | |
| | Cyclohexane | 20 | 18.2 | ug/Kg | 91 | | | 70 (76) | 130 (122) | |
| | 2-Butanone | 100 | 110 | ug/Kg | 110 | | | 40 (69) | 160 (131) | |
| | Carbon Tetrachloride | 20 | 21.3 | ug/Kg | 106 | | | 70 (76) | 130 (129) | |
| | cis-1,2-Dichloroethene | 20 | 20.4 | ug/Kg | 102 | | | 70 (82) | 130 (123) | |
| | Bromochloromethane | 20 | 19.6 | ug/Kg | 98 | | | 70 (80) | 130 (127) | |
| | Chloroform | 20 | 21.3 | ug/Kg | 106 | | | 70 (82) | 130 (125) | |
| | 1,1,1-Trichloroethane | 20 | 20.3 | ug/Kg | 102 | | | 70 (80) | 130 (126) | |
| | Methylcyclohexane | 20 | 18.1 | ug/Kg | 91 | | | 70 (77) | 130 (123) | |
| | Benzene | 20 | 19.1 | ug/Kg | 96 | | | 70 (84) | 130 (121) | |
| | 1,2-Dichloroethane | 20 | 19.8 | ug/Kg | 99 | | | 70 (81) | 130 (126) | |
| | Trichloroethene | 20 | 19.1 | ug/Kg | 96 | | | 70 (83) | 130 (122) | |
| | 1,2-Dichloropropane | 20 | 21.0 | ug/Kg | 105 | | | 70 (83) | 130 (122) | |
| | Bromodichloromethane | 20 | 21.0 | ug/Kg | 105 | | | 70 (82) | 130 (123) | |
| | 4-Methyl-2-Pentanone | 100 | 110 | ug/Kg | 110 | | | 40 (70) | 160 (135) | |
| | Toluene | 20 | 19.4 | ug/Kg | 97 | | | 70 (83) | 130 (122) | |
| | t-1,3-Dichloropropene | 20 | 20.5 | ug/Kg | 103 | | | 70 (78) | 130 (124) | |
| | cis-1,3-Dichloropropene | 20 | 20.3 | ug/Kg | 102 | | | 70 (81) | 130 (122) | |
| | 1,1,2-Trichloroethane | 20 | 21.3 | ug/Kg | 106 | | | 70 (82) | 130 (125) | |
| | 2-Hexanone | 100 | 110 | ug/Kg | 110 | | | 40 (66) | 160 (138) | |
| | Dibromochloromethane | 20 | 20.9 | ug/Kg | 104 | | | 70 (79) | 130 (125) | |
| | 1,2-Dibromoethane | 20 | 20.7 | ug/Kg | 104 | | | 70 (80) | 130 (125) | |
| | Tetrachloroethene | 20 | 18.4 | ug/Kg | 92 | | | 70 (83) | 130 (125) | |
| | Chlorobenzene | 20 | 20.0 | ug/Kg | 100 | | | 70 (84) | 130 (122) | |
| | Ethyl Benzene | 20 | 19.7 | ug/Kg | 99 | | | 70 (82) | 130 (124) | |
| | m/p-Xylenes | 40 | 39.1 | ug/Kg | 98 | | | 70 (83) | 130 (124) | |
| | o-Xylene | 20 | 19.5 | ug/Kg | 98 | | | 70 (83) | 130 (123) | |
| | Styrene | 20 | 19.7 | ug/Kg | 99 | | | 70 (82) | 130 (124) | |
| | Bromoform | 20 | 21.5 | ug/Kg | 108 | | | 70 (75) | 130 (127) | |
| | Isopropylbenzene | 20 | 20.1 | ug/Kg | 101 | | | 70 (82) | 130 (124) | |
| | 1,1,2,2-Tetrachloroethane | 20 | 22.6 | ug/Kg | 113 | | | 70 (77) | 130 (127) | |
| | 1,3-Dichlorobenzene | 20 | 20.3 | ug/Kg | 102 | | | 70 (83) | 130 (122) | |
| | 1,4-Dichlorobenzene | 20 | 19.8 | ug/Kg | 99 | | | 70 (84) | 130 (121) | |
| | 1,2-Dichlorobenzene | 20 | 20.3 | ug/Kg | 102 | | | 70 (83) | 130 (124) | |
| | 1,2-Dibromo-3-Chloropropane | 20 | 20.0 | ug/Kg | 100 | | | 40 (66) | 160 (134) | |

( ) = LABORATORY INHOUSE LIMIT

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
## SW-846

**SDG No.:** O5252

**Client:** RMJ Environomics, Inc.

**Analytical Method:** SW8260D **Datafile :** VY016245.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1107SBS01 | 1,2,4-Trichlorobenzene | 20 | 18.8 | ug/Kg | 94 | | | 70 (78) | 130 (127) | |
| | 1,2,3-Trichlorobenzene | 20 | 18.3 | ug/Kg | 92 | | | 70 (70) | 130 (137) | |

( ) = LABORATORY INHOUSE LIMIT

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**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary**
**SW-846**

**SDG No.:** O5252

**Client:** RMJ Environomics, Inc.

**Analytical Method:** SW8260D **Datafile :** VY016246.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1107SBSD01 | Dichlorodifluoromethane | 20 | 17.9 | ug/Kg | 90 | 0 | | 40 (64) | 160 (136) | 30 (20) |
| | Chloromethane | 20 | 16.7 | ug/Kg | 84 | 6 | | 40 (70) | 160 (130) | 30 (20) |
| | Vinyl chloride | 20 | 18.6 | ug/Kg | 93 | 7 | | 70 (72) | 130 (129) | 30 (20) |
| | Bromomethane | 20 | 18.7 | ug/Kg | 94 | 9 | | 40 (58) | 160 (141) | 30 (20) |
| | Chloroethane | 20 | 18.8 | ug/Kg | 94 | 5 | | 40 (69) | 160 (130) | 30 (20) |
| | Trichlorofluoromethane | 20 | 21.0 | ug/Kg | 105 | 5 | | 40 (69) | 160 (134) | 30 (20) |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 21.0 | ug/Kg | 105 | 1 | | 70 (81) | 130 (123) | 30 (20) |
| | 1,1-Dichloroethene | 20 | 19.8 | ug/Kg | 99 | 2 | | 70 (79) | 130 (121) | 30 (20) |
| | Acetone | 100 | 95.6 | ug/Kg | 96 | 1 | | 40 (60) | 160 (131) | 30 (20) |
| | Carbon disulfide | 20 | 15.7 | ug/Kg | 79 | 4 | | 40 (45) | 160 (154) | 30 (20) |
| | Methyl tert-butyl Ether | 20 | 22.0 | ug/Kg | 110 | 4 | | 70 (77) | 130 (129) | 30 (20) |
| | Methyl Acetate | 20 | 22.3 | ug/Kg | 112 | 2 | | 70 (69) | 130 (149) | 30 (20) |
| | Methylene Chloride | 20 | 21.4 | ug/Kg | 107 | 7 | | 70 (39) | 130 (175) | 30 (20) |
| | trans-1,2-Dichloroethene | 20 | 19.9 | ug/Kg | 100 | 5 | | 70 (80) | 130 (123) | 30 (20) |
| | 1,1-Dichloroethane | 20 | 21.7 | ug/Kg | 109 | 4 | | 70 (82) | 130 (123) | 30 (20) |
| | Cyclohexane | 20 | 18.6 | ug/Kg | 93 | 2 | | 70 (76) | 130 (122) | 30 (20) |
| | 2-Butanone | 100 | 110 | ug/Kg | 110 | 0 | | 40 (69) | 160 (131) | 30 (20) |
| | Carbon Tetrachloride | 20 | 21.3 | ug/Kg | 106 | 0 | | 70 (76) | 130 (129) | 30 (20) |
| | cis-1,2-Dichloroethene | 20 | 21.6 | ug/Kg | 108 | 6 | | 70 (82) | 130 (123) | 30 (20) |
| | Bromochloromethane | 20 | 21.2 | ug/Kg | 106 | 8 | | 70 (80) | 130 (127) | 30 (20) |
| | Chloroform | 20 | 21.7 | ug/Kg | 109 | 3 | | 70 (82) | 130 (125) | 30 (20) |
| | 1,1,1-Trichloroethane | 20 | 21.0 | ug/Kg | 105 | 3 | | 70 (80) | 130 (126) | 30 (20) |
| | Methylcyclohexane | 20 | 17.9 | ug/Kg | 90 | 1 | | 70 (77) | 130 (123) | 30 (20) |
| | Benzene | 20 | 19.9 | ug/Kg | 100 | 4 | | 70 (84) | 130 (121) | 30 (20) |
| | 1,2-Dichloroethane | 20 | 20.3 | ug/Kg | 102 | 3 | | 70 (81) | 130 (126) | 30 (20) |
| | Trichloroethene | 20 | 19.6 | ug/Kg | 98 | 2 | | 70 (83) | 130 (122) | 30 (20) |
| | 1,2-Dichloropropane | 20 | 21.2 | ug/Kg | 106 | 1 | | 70 (83) | 130 (122) | 30 (20) |
| | Bromodichloromethane | 20 | 21.5 | ug/Kg | 108 | 3 | | 70 (82) | 130 (123) | 30 (20) |
| | 4-Methyl-2-Pentanone | 100 | 110 | ug/Kg | 110 | 0 | | 40 (70) | 160 (135) | 30 (20) |
| | Toluene | 20 | 19.9 | ug/Kg | 100 | 3 | | 70 (83) | 130 (122) | 30 (20) |
| | t-1,3-Dichloropropene | 20 | 20.9 | ug/Kg | 104 | 1 | | 70 (78) | 130 (124) | 30 (20) |
| | cis-1,3-Dichloropropene | 20 | 20.9 | ug/Kg | 104 | 2 | | 70 (81) | 130 (122) | 30 (20) |
| | 1,1,2-Trichloroethane | 20 | 21.3 | ug/Kg | 106 | 0 | | 70 (82) | 130 (125) | 30 (20) |
| | 2-Hexanone | 100 | 110 | ug/Kg | 110 | 0 | | 40 (66) | 160 (138) | 30 (20) |
| | Dibromochloromethane | 20 | 21.6 | ug/Kg | 108 | 4 | | 70 (79) | 130 (125) | 30 (20) |
| | 1,2-Dibromoethane | 20 | 20.8 | ug/Kg | 104 | 0 | | 70 (80) | 130 (125) | 30 (20) |
| | Tetrachloroethene | 20 | 18.6 | ug/Kg | 93 | 1 | | 70 (83) | 130 (125) | 30 (20) |
| | Chlorobenzene | 20 | 20.2 | ug/Kg | 101 | 1 | | 70 (84) | 130 (122) | 30 (20) |
| | Ethyl Benzene | 20 | 20.1 | ug/Kg | 101 | 2 | | 70 (82) | 130 (124) | 30 (20) |
| | m/p-Xylenes | 40 | 39.7 | ug/Kg | 99 | 1 | | 70 (83) | 130 (124) | 30 (20) |
| | o-Xylene | 20 | 20.2 | ug/Kg | 101 | 3 | | 70 (83) | 130 (123) | 30 (20) |
| | Styrene | 20 | 20.0 | ug/Kg | 100 | 1 | | 70 (82) | 130 (124) | 30 (20) |
| | Bromoform | 20 | 21.3 | ug/Kg | 106 | 2 | | 70 (75) | 130 (127) | 30 (20) |
| | Isopropylbenzene | 20 | 20.3 | ug/Kg | 102 | 1 | | 70 (82) | 130 (124) | 30 (20) |
| | 1,1,2,2-Tetrachloroethane | 20 | 22.4 | ug/Kg | 112 | 1 | | 70 (77) | 130 (127) | 30 (20) |
| | 1,3-Dichlorobenzene | 20 | 20.9 | ug/Kg | 104 | 2 | | 70 (83) | 130 (122) | 30 (20) |
| | 1,4-Dichlorobenzene | 20 | 20.9 | ug/Kg | 104 | 5 | | 70 (84) | 130 (121) | 30 (20) |
| | 1,2-Dichlorobenzene | 20 | 21.2 | ug/Kg | 106 | 4 | | 70 (83) | 130 (124) | 30 (20) |
| | 1,2-Dibromo-3-Chloropropane | 20 | 21.3 | ug/Kg | 106 | 6 | | 40 (66) | 160 (134) | 30 (20) |

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**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary**
**SW-846**

**SDG No.:** O5252

**Client:** RMJ Environomics, Inc.

**Analytical Method:** SW8260D **Datafile :** VY016246.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| **VY1107SBSD01** | 1,2,4-Trichlorobenzene | 20 | 20.8 | ug/Kg | 104 | 10 | | 70 (78) | 130 (127) | 30 (20) |
| | 1,2,3-Trichlorobenzene | 20 | 20.6 | ug/Kg | 103 | 11 | | 70 (70) | 130 (137) | 30 (20) |

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1107SBL01

Lab Name: CHEMTECH Contract: RMJE02

Lab Code: CHEM Case No.: O5252 SAS No.: O5252 SDG NO.: O5252

Lab File ID: VY016244.D Lab Sample ID: VY1107SBL01

Date Analyzed: 11/07/2023 Time Analyzed: 09:31

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 |
|---|---|---|---|
| VY1107SBS01 | VY1107SBS01 | VY016245.D | 11/07/2023 |
| VY1107SBSD01 | VY1107SBSD01 | VY016246.D | 11/07/2023 |
| WASTE-VOC | O5252-03 | VY016247.D | 11/07/2023 |

COMMENTS:

Raw Data: **VY016140.D**

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

Lab Name: CHEMTECH Contract: RMJE02

Lab Code: CHEM Case No.: 05252 SAS No.: 05252 SDG NO.: 05252

Lab File ID: VY016140.D BFB Injection Date: 10/31/2023

Instrument ID: MSVOA_Y BFB Injection Time: 08:42

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 | 18.9 |
| 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 | 6.7 |
| 173 | Less than 2.0% of mass 174 | 0.8 ( 0.9 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 84.6 |
| 175 | 5.0 - 9.0% of mass 174 | 6.4 ( 7.5 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 81.6 ( 96.5 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.8 ( 7.1 ) 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 |
|---|---|---|---|---|
| VSTDICC005 | VSTDICC005 | VY016142.D | 10/31/2023 | 12:26 |
| VSTDICC010 | VSTDICC010 | VY016143.D | 10/31/2023 | 12:49 |
| VSTDICC020 | VSTDICC020 | VY016144.D | 10/31/2023 | 13:12 |
| VSTDICCC050 | VSTDICCC050 | VY016145.D | 10/31/2023 | 13:37 |
| VSTDICC100 | VSTDICC100 | VY016146.D | 10/31/2023 | 14:13 |
| VSTDICC150 | VSTDICC150 | VY016147.D | 10/31/2023 | 14:40 |

Raw Data: **VY016242.D**

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

Lab Name: CHEMTECH Contract: RMJE02

Lab Code: CHEM Case No.: O5252 SAS No.: O5252 SDG NO.: O5252

Lab File ID: VY016242.D BFB Injection Date: 11/07/2023

Instrument ID: MSVOA_Y BFB Injection Time: 08:03

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 | 18.4 |
| 75 | 30.0 - 60.0% of mass 95 | 51.7 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.4 |
| 173 | Less than 2.0% of mass 174 | 0.9 ( 1 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 90.3 |
| 175 | 5.0 - 9.0% of mass 174 | 6.8 ( 7.5 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 86.8 ( 96.1 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 6.1 ( 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 | VY016243.D | 11/07/2023 | 08:35 |
| VY1107SBL01 | VY1107SBL01 | VY016244.D | 11/07/2023 | 09:31 |
| VY1107SBS01 | VY1107SBS01 | VY016245.D | 11/07/2023 | 10:08 |
| VY1107SBSD01 | VY1107SBSD01 | VY016246.D | 11/07/2023 | 10:31 |
| WASTE-VOC | O5252-03 | VY016247.D | 11/07/2023 | 11:34 |

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: RMJE02

Lab Code: CHEM Case No.: 05252 SAS No.: 05252 SDG NO.: 05252

Lab File ID: VY016243.D Date Analyzed: 11/07/2023

Instrument ID: MSVOA_Y Time Analyzed: 08:35

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 | 164275 | 7.80 | 262616 | 8.70 | 222967 | 11.50 |
| UPPER LIMIT | 328550 | 8.295 | 525232 | 9.197 | 445934 | 12.002 |
| LOWER LIMIT | 82137.5 | 7.295 | 131308 | 8.197 | 111484 | 11.002 |
| EPA SAMPLE NO. | | | | | | |
| WASTE-VOC | 104317 | 7.80 | 183103 | 8.70 | 164024 | 11.50 |
| VY1107SBL01 | 106864 | 7.80 | 189173 | 8.70 | 181795 | 11.50 |
| VY1107SBS01 | 169940 | 7.80 | 275085 | 8.70 | 237625 | 11.50 |
| VY1107SBSD01 | 160601 | 7.80 | 263538 | 8.70 | 230283 | 11.50 |

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.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: RMJE02

Lab Code: CHEM Case No.: 05252 SAS No.: 05252 SDG NO.: 05252

Lab File ID: VY016243.D Date Analyzed: 11/07/2023

Instrument ID: MSVOA_Y Time Analyzed: 08:35

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 100419 | 13.434 | | | | |
| UPPER LIMIT | 200838 | 13.934 | | | | |
| LOWER LIMIT | 50209.5 | 12.934 | | | | |
| EPA SAMPLE NO. | | | | | | |
| WASTE-VOC | 59390 | 13.43 | | | | |
| VY1107SBL01 | 83712 | 13.43 | | | | |
| VY1107SBS01 | 111499 | 13.43 | | | | |
| VY1107SBSD01 | 109001 | 13.43 | | | | |

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.

CHEMTECH

# SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RMJ Environomics, Inc. | Date Collected: | 11/03/23 |
| Project: | 245 Greenwood Ave | Date Received: | 11/03/23 |
| Client Sample ID: | WASTE-VOC | SDG No.: | O5252 |
| Lab Sample ID: | O5252-03 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 4.94 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY016247.D | 1 | | 11/07/23 11:34 | VY110723 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.60 | U | 1.60 | 5.10 | ug/Kg |
| 74-87-3 | Chloromethane | 0.92 | U | 0.92 | 5.10 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.94 | U | 0.94 | 5.10 | ug/Kg |
| 74-83-9 | Bromomethane | 1.20 | U | 1.20 | 5.10 | ug/Kg |
| 75-00-3 | Chloroethane | 0.89 | U | 0.89 | 5.10 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 1.10 | U | 1.10 | 5.10 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.73 | U | 0.73 | 5.10 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.80 | U | 0.80 | 5.10 | ug/Kg |
| 67-64-1 | Acetone | 9.50 | U | 9.50 | 25.3 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 2.20 | U | 2.20 | 5.10 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.66 | U | 0.66 | 5.10 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.60 | U | 1.60 | 5.10 | ug/Kg |
| 75-09-2 | Methylene Chloride | 37.5 | B | 6.10 | 10.1 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.74 | U | 0.74 | 5.10 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.73 | U | 0.73 | 5.10 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.71 | U | 0.71 | 5.10 | ug/Kg |
| 78-93-3 | 2-Butanone | 7.40 | U | 7.40 | 25.3 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.79 | U | 0.79 | 5.10 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.65 | U | 0.65 | 5.10 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.40 | U | 2.40 | 5.10 | ug/Kg |
| 67-66-3 | Chloroform | 1.30 | U | 1.30 | 5.10 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.77 | U | 0.77 | 5.10 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 3.40 | U | 3.40 | 5.10 | ug/Kg |
| 71-43-2 | Benzene | 0.67 | U | 0.67 | 5.10 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.73 | U | 0.73 | 5.10 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.67 | U | 0.67 | 5.10 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.60 | U | 0.60 | 5.10 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.71 | U | 0.71 | 5.10 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 4.60 | U | 4.60 | 25.3 | ug/Kg |
| 108-88-3 | Toluene | 0.66 | U | 0.66 | 5.10 | ug/Kg |
| 10061-02-6 | t-1,3-Dichloropropene | 0.78 | U | 0.78 | 5.10 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.75 | U | 0.75 | 5.10 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RMJ Environomics, Inc. | Date Collected: | 11/03/23 |
| Project: | 245 Greenwood Ave | Date Received: | 11/03/23 |
| Client Sample ID: | WASTE-VOC | SDG No.: | O5252 |
| Lab Sample ID: | O5252-03 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 4.94 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY016247.D | 1 | | 11/07/23 11:34 | VY110723 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | 0.87 | U | 0.87 | 5.10 | ug/Kg |
| 591-78-6 | 2-Hexanone | 5.30 | U | 5.30 | 25.3 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.86 | U | 0.86 | 5.10 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.80 | U | 0.80 | 5.10 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.78 | U | 0.78 | 5.10 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.64 | U | 0.64 | 5.10 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.68 | U | 0.68 | 5.10 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.40 | U | 1.40 | 10.1 | ug/Kg |
| 95-47-6 | o-Xylene | 0.78 | U | 0.78 | 5.10 | ug/Kg |
| 100-42-5 | Styrene | 0.70 | U | 0.70 | 5.10 | ug/Kg |
| 75-25-2 | Bromoform | 0.96 | U | 0.96 | 5.10 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.72 | U | 0.72 | 5.10 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.10 | U | 1.10 | 5.10 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.69 | U | 0.69 | 5.10 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.61 | U | 0.61 | 5.10 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.61 | U | 0.61 | 5.10 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.20 | U | 1.20 | 5.10 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.62 | U | 0.62 | 5.10 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.64 | U | 0.64 | 5.10 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 58.6 | | 70 (50) - 130 (163) | 117% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.7 | | 70 (54) - 130 (147) | 99% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.0 | | 70 (58) - 130 (134) | 98% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 43.6 | | 70 (39) - 130 (149) | 87% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 104000 | 7.795 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 183000 | 8.697 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 164000 | 11.502 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 59400 | 13.434 | | | |

Raw Data: **VY016247.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RMJ Environomics, Inc. | Date Collected: | 11/03/23 |
| Project: | 245 Greenwood Ave | Date Received: | 11/03/23 |
| Client Sample ID: | WASTE-VOC | SDG No.: | O5252 |
| Lab Sample ID: | O5252-03 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 4.94 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY016247.D | 1 | | 11/07/23 11:34 | VY110723 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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\VY110723\
Data File : VY016247.D
Acq On : 07 Nov 2023 11:34
Operator : SY/MD
Sample : 05252-03
Misc : 4.94g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
WASTE-VOC

Quant Time: Nov 07 23:44:08 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration

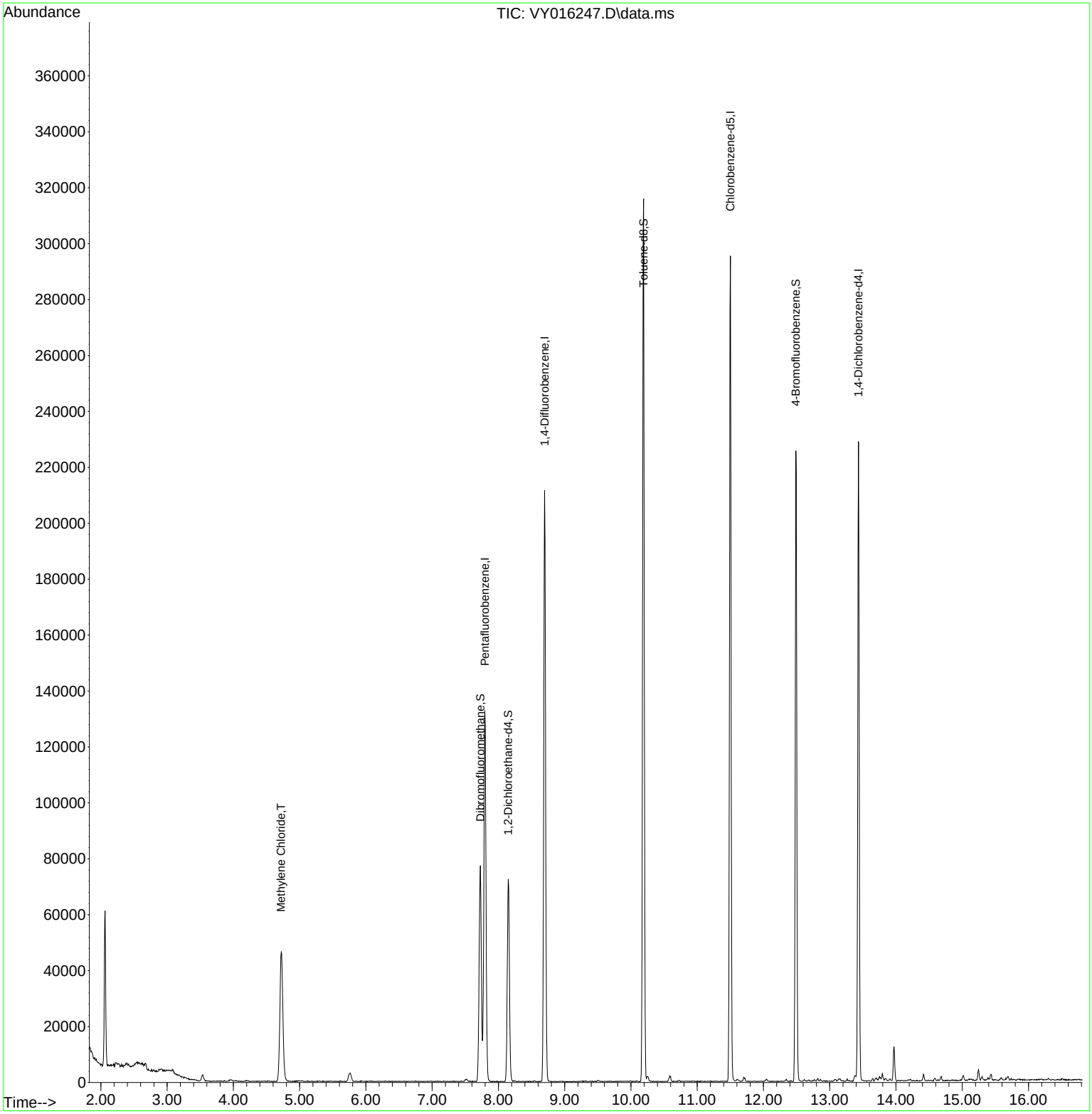
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.795 | 168 | 104317 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.697 | 114 | 183103 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.502 | 117 | 164024 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.434 | 152 | 59390 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.149 | 65 | 57215 | 58.614 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 117.220% | | | |
| 35) Dibromofluoromethane | 7.728 | 113 | 54282 | 49.727 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 99.460% | | | |
| 50) Toluene-d8 | 10.191 | 98 | 211918 | 48.964 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 97.920% | | | |
| 62) 4-Bromofluorobenzene | 12.489 | 95 | 64491 | 43.577 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 87.160% | | | |
| Target Compounds | | | | | | Qvalue |
| 20) Methylene Chloride | 4.716 | 84 | 37538 | 37.018 | ug/l # | 83 |

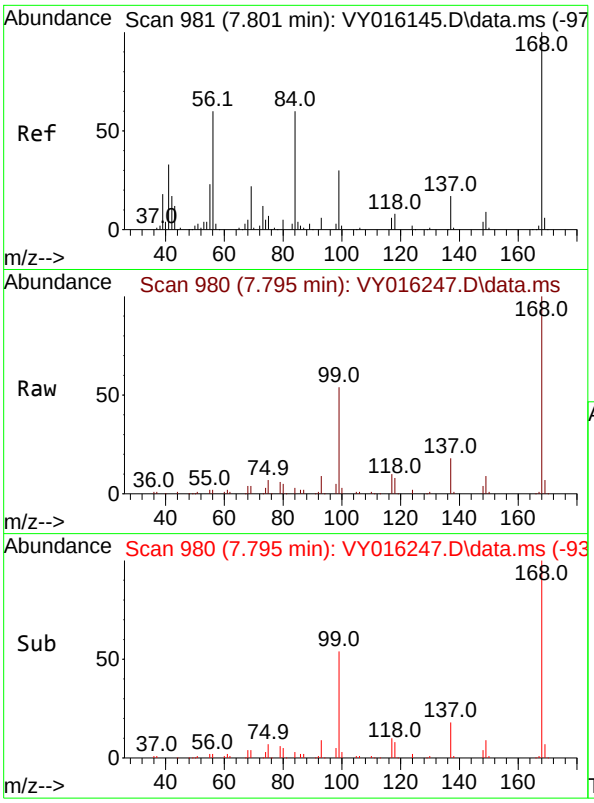
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016247.D
Acq On : 07 Nov 2023 11:34
Operator : SY/MD
Sample : 05252-03
Misc : 4.94g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
WASTE-VOC

Quant Time: Nov 07 23:44:08 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration



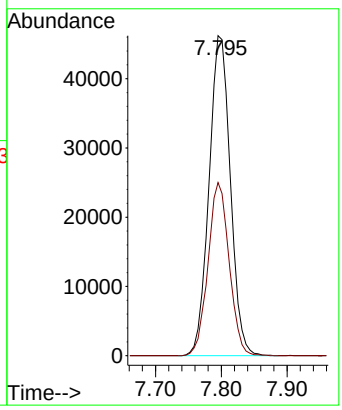


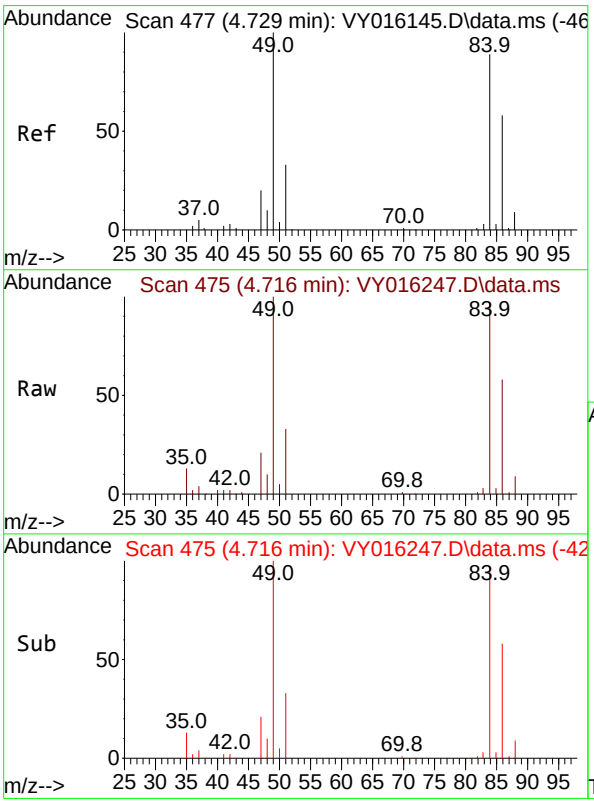

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY016247.D
Acq: 07 Nov 2023 11:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
WASTE-VOC

Tgt Ion:168 Resp: 104317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 54.1 | 43.4 | 65.0 |

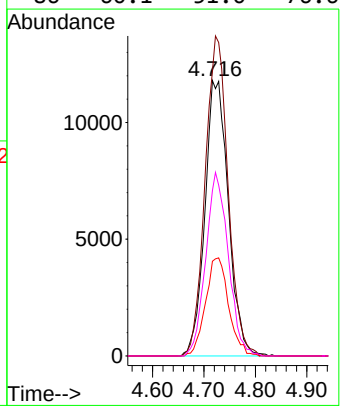


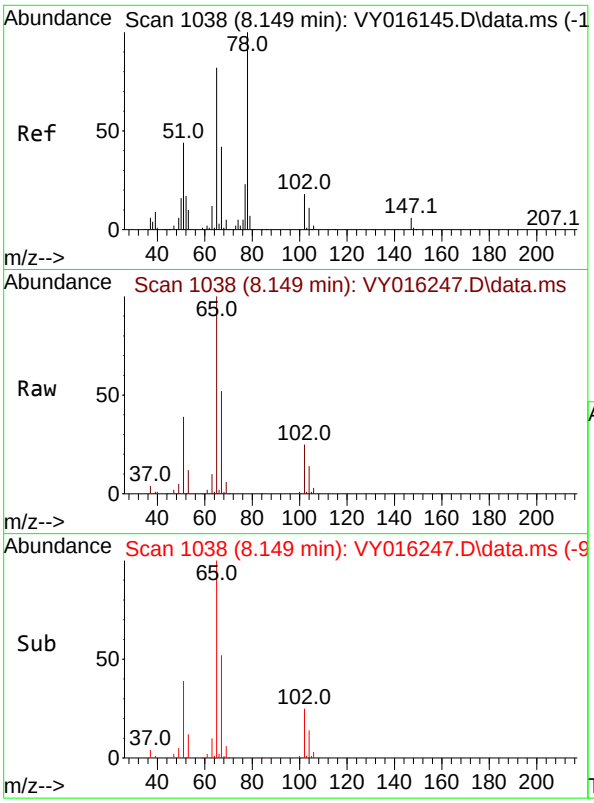




#20
Methylene Chloride
Concen: 37.018 ug/l
RT: 4.716 min Scan# 475
Delta R.T. -0.013 min
Lab File: VY016247.D
Acq: 07 Nov 2023 11:34

Tgt Ion: 84 Resp: 37538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 103.4 | 106.9 | 160.3# |
| 51 | 34.4 | 33.2 | 49.8 |
| 86 | 60.1 | 51.0 | 76.6 |



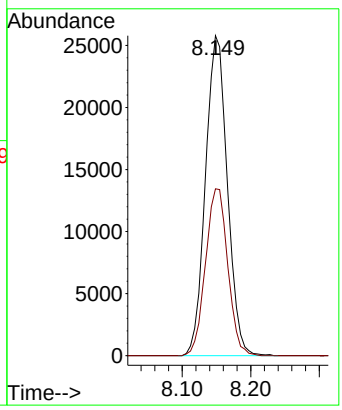


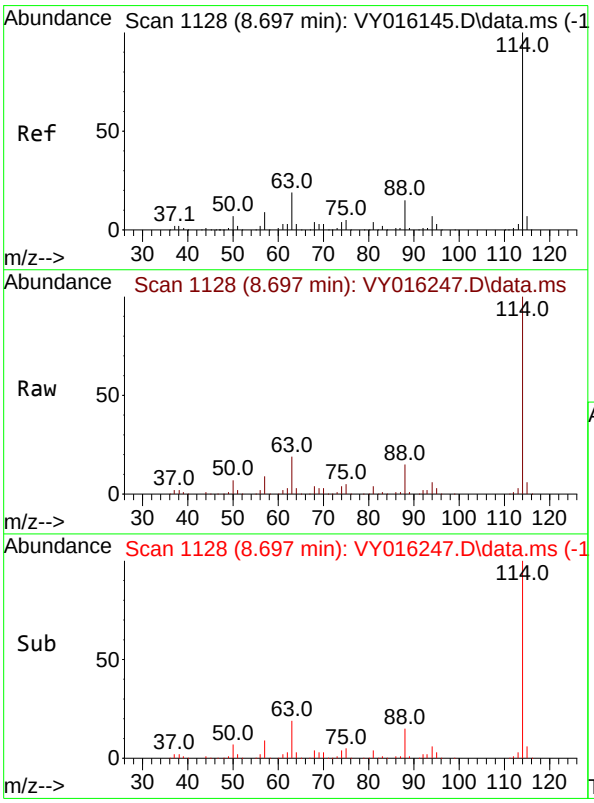

#33
1,2-Dichloroethane-d4
Concen: 58.614 ug/l
RT: 8.149 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY016247.D
Acq: 07 Nov 2023 11:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
WASTE-VOC

Tgt Ion: 65 Resp: 57215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.1 | 0.0 | 101.8 |

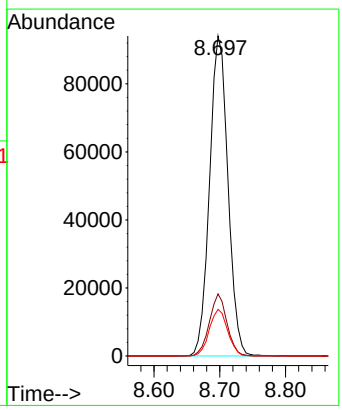


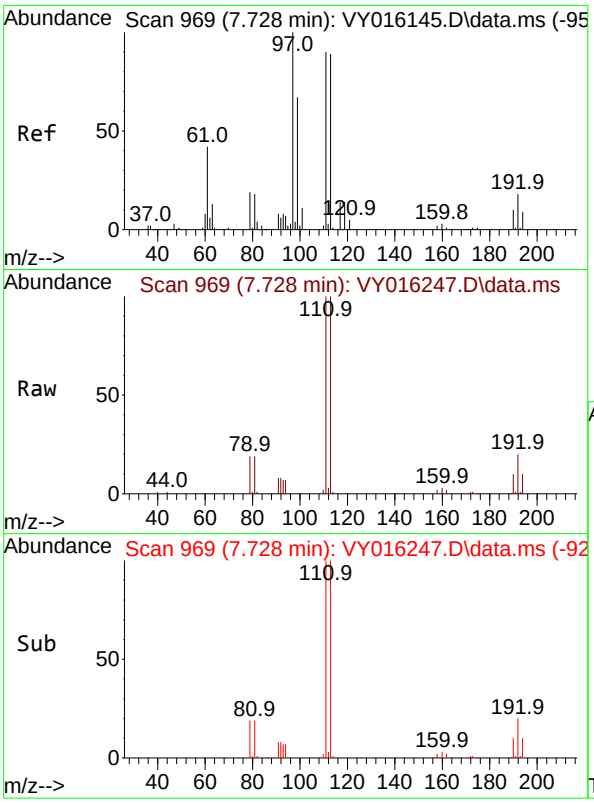




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.697 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VY016247.D
Acq: 07 Nov 2023 11:34

Tgt Ion:114 Resp: 183103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.4 | 0.0 | 42.4 |
| 88 | 14.6 | 0.0 | 30.6 |



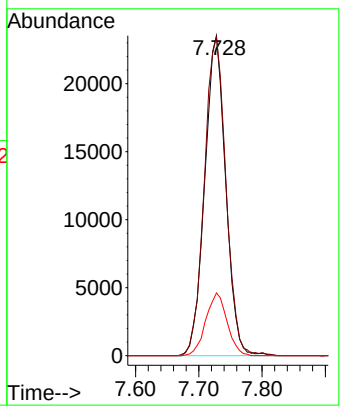


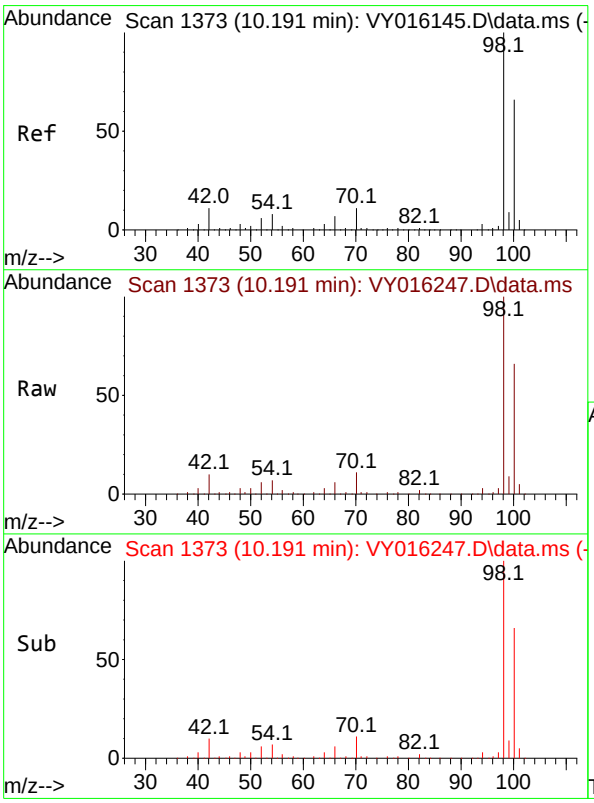

#35
Dibromofluoromethane
Concen: 49.727 ug/l
RT: 7.728 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY016247.D
Acq: 07 Nov 2023 11:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
WASTE-VOC

Tgt Ion:113 Resp: 54282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.7 | 81.3 | 121.9 |
| 192 | 19.9 | 16.9 | 25.3 |

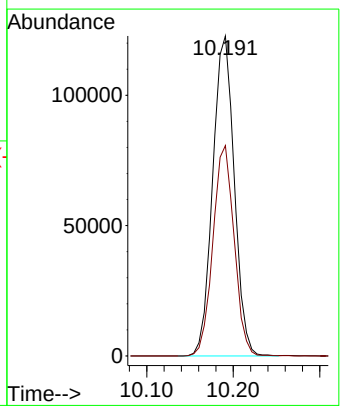


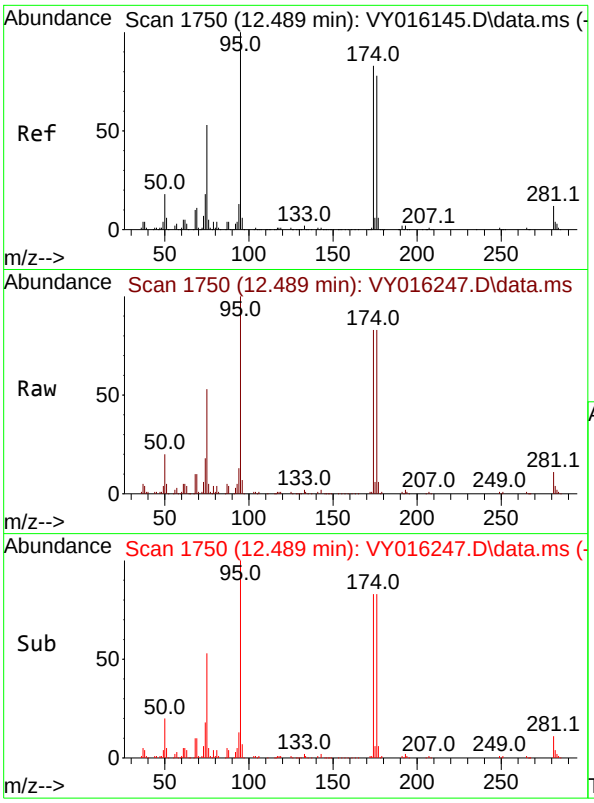




#50
Toluene-d8
Concen: 48.964 ug/l
RT: 10.191 min Scan# 1373
Delta R.T. -0.000 min
Lab File: VY016247.D
Acq: 07 Nov 2023 11:34

Tgt Ion: 98 Resp: 211918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.9 | 50.1 | 75.1 |



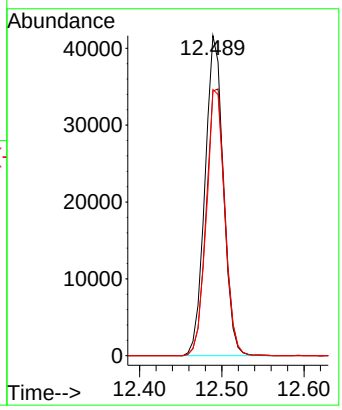


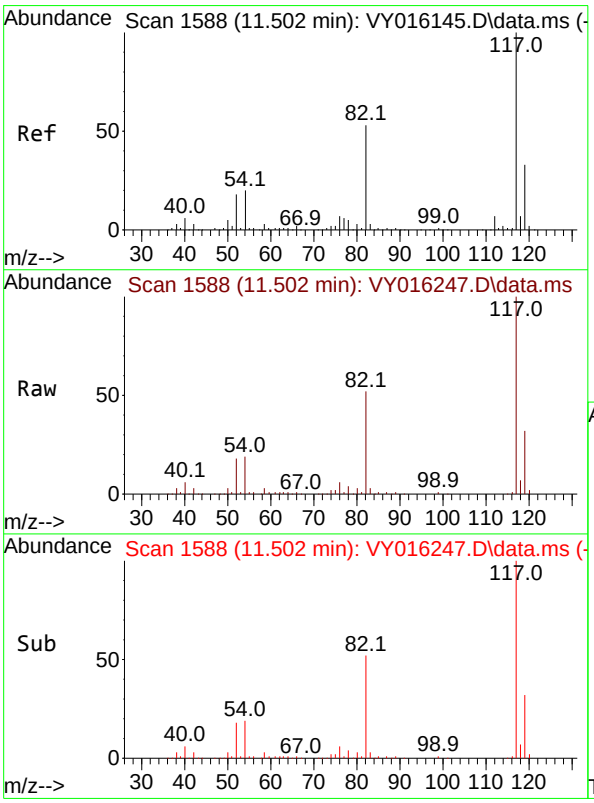

#62
4-Bromofluorobenzene
Concen: 43.577 ug/l
RT: 12.489 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY016247.D
Acq: 07 Nov 2023 11:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
WASTE-VOC

Tgt Ion: 95 Resp: 64491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.4 | 0.0 | 178.2 |
| 176 | 83.4 | 0.0 | 173.8 |

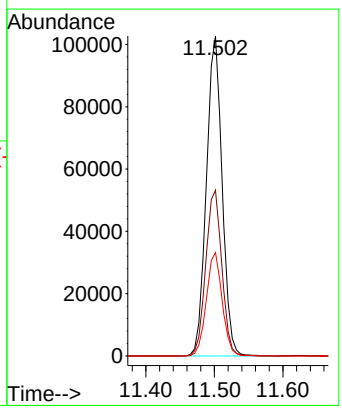


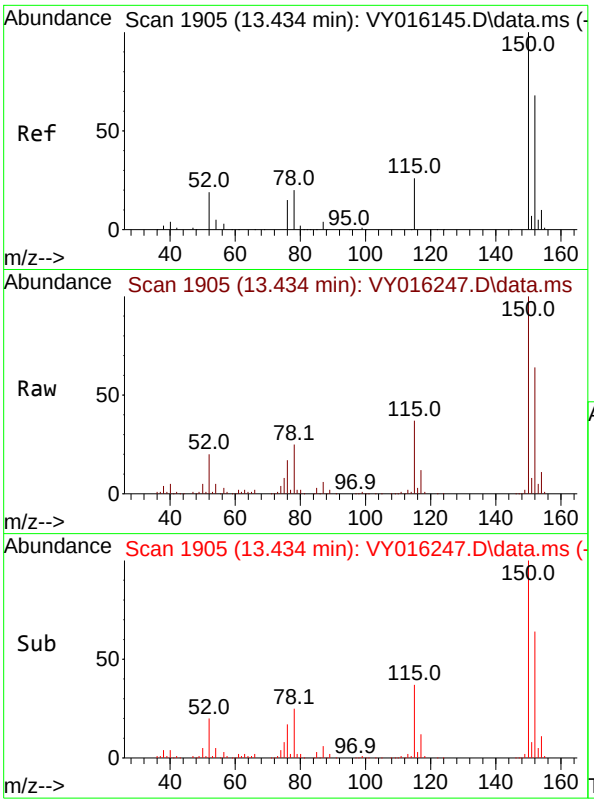




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.502 min Scan# 1588
Delta R.T. -0.000 min
Lab File: VY016247.D
Acq: 07 Nov 2023 11:34

Tgt Ion:117 Resp: 164024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 51.8 | 43.4 | 65.0 |
| 119 | 32.3 | 26.3 | 39.5 |



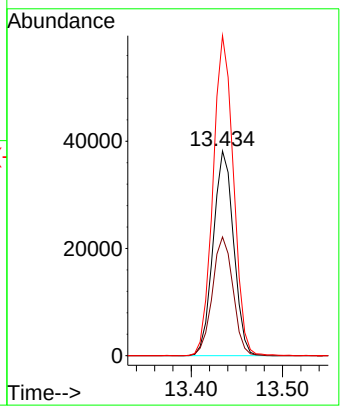



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.434 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY016247.D
Acq: 07 Nov 2023 11:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
WASTE-VOC

Tgt Ion:152 Resp: 59390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.4 | 28.8 | 86.5 |
| 150 | 156.3 | 0.0 | 348.8 |



Sample Results: **VY016247.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016247.D
Acq On : 07 Nov 2023 11:34
Operator : SY/MD
Sample : 05252-03
Misc : 4.94g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
WASTE-VOC

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Title : SW846 8260

Signal : TIC: VY016247.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.064 | 34 | 40 | 46 | rVB | 55441 | 80397 | 14.72% | 2.641% |
| 2 | 4.722 | 465 | 476 | 492 | rBV2 | 46220 | 145393 | 26.62% | 4.775% |
| 3 | 5.765 | 636 | 647 | 657 | rBV3 | 3112 | 9914 | 1.82% | 0.326% |
| 4 | 7.728 | 959 | 969 | 974 | rBV | 77235 | 179841 | 32.93% | 5.907% |
| 5 | 7.795 | 974 | 980 | 992 | rVB | 132639 | 295975 | 54.19% | 9.721% |
| 6 | 8.149 | 1030 | 1038 | 1049 | rBV | 72364 | 161864 | 29.63% | 5.316% |
| 7 | 8.697 | 1119 | 1128 | 1143 | rVB | 211505 | 408363 | 74.77% | 13.412% |
| 8 | 10.191 | 1365 | 1373 | 1380 | rBV | 315678 | 546195 | 100.00% | 17.939% |
| 9 | 11.502 | 1580 | 1588 | 1599 | rBV | 295259 | 476968 | 87.33% | 15.665% |
| 10 | 12.489 | 1743 | 1750 | 1765 | rVB2 | 225587 | 365565 | 66.93% | 12.007% |
| 11 | 13.434 | 1899 | 1905 | 1914 | rVB | 228524 | 354868 | 64.97% | 11.655% |
| 12 | 13.971 | 1987 | 1993 | 2000 | rVB2 | 12392 | 19376 | 3.55% | 0.636% |

Sum of corrected areas: 3044719

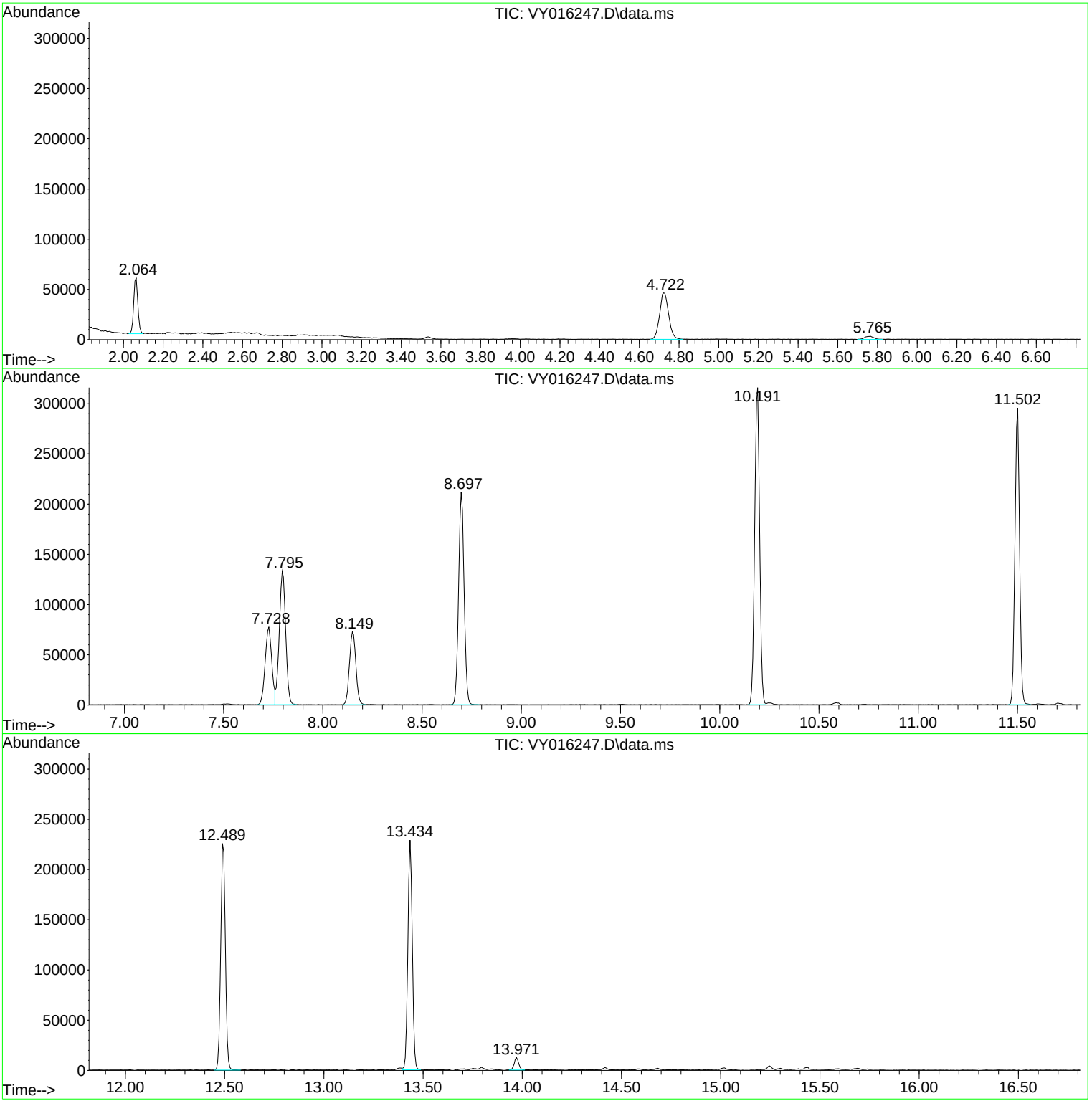
Sample Results: **VY016247.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016247.D
Acq On : 07 Nov 2023 11:34
Operator : SY/MD
Sample : 05252-03
Misc : 4.94g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
WASTE-VOC

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



# Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016247.D
Acq On : 07 Nov 2023 11:34
Operator : SY/MD
Sample : 05252-03
Misc : 4.94g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
WASTE-VOC

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016247.D
Acq On : 07 Nov 2023 11:34
Operator : SY/MD
Sample : 05252-03
Misc : 4.94g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
WASTE-VOC

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | Internal Standard # | Internal Standard RT | Internal Standard Resp | Internal Standard Conc |
|---|---|---|---|---|---|---|---|---|

CHEMTECH

# CALIBRATION SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: RMJE02

Lab Code: CHEM Case No.: O5252 SAS No.: O5252 SDG No.: O5252

Instrument ID: MSVOA_Y Calibration Date(s): 10/31/2023 10/31/2023

Heated Purge: (Y/N) Y Calibration Time(s): 12:26 14:40

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

LAB FILE ID: RRF005 = VY016142.D RRF010 = VY016143.D RRF020 = VY016144.D
RRF050 = VY016145.D RRF100 = VY016146.D RRF150 = VY016147.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.280 | 0.326 | 0.304 | 0.335 | 0.346 | 0.322 | 0.319 | 7.5 |
| Chloromethane | 0.424 | 0.471 | 0.443 | 0.435 | 0.451 | 0.425 | 0.442 | 4 |
| Vinyl Chloride | 0.402 | 0.465 | 0.440 | 0.469 | 0.495 | 0.464 | 0.456 | 6.9 |
| Bromomethane | 0.282 | 0.307 | 0.299 | 0.302 | 0.333 | 0.323 | 0.308 | 6 |
| Chloroethane | 0.277 | 0.333 | 0.322 | 0.318 | 0.346 | 0.328 | 0.321 | 7.3 |
| Trichlorofluoromethane | 0.619 | 0.704 | 0.671 | 0.702 | 0.735 | 0.697 | 0.688 | 5.8 |
| 1,1,2-Trichlorotrifluoroethane | 0.411 | 0.435 | 0.430 | 0.438 | 0.456 | 0.431 | 0.433 | 3.4 |
| 1,1-Dichloroethene | 0.371 | 0.409 | 0.392 | 0.390 | 0.419 | 0.394 | 0.396 | 4.2 |
| Acetone | 0.118 | 0.102 | 0.084 | 0.069 | 0.077 | 0.069 | 0.086 | 22.6 |
| Carbon Disulfide | 0.858 | 0.981 | 0.958 | 1.015 | 1.088 | 1.026 | 0.988 | 7.8 |
| Methyl tert-butyl Ether | 0.969 | 1.171 | 1.139 | 1.071 | 1.240 | 1.162 | 1.125 | 8.4 |
| Methyl Acetate | 0.355 | 0.392 | 0.383 | 0.344 | 0.404 | 0.380 | 0.376 | 6 |
| Methylene Chloride | 0.683 | 0.611 | 0.511 | 0.459 | 0.485 | 0.448 | 0.533 | 17.6 |
| trans-1,2-Dichloroethene | 0.421 | 0.460 | 0.466 | 0.457 | 0.492 | 0.469 | 0.461 | 5 |
| 1,1-Dichloroethane | 0.721 | 0.856 | 0.827 | 0.794 | 0.884 | 0.834 | 0.819 | 6.9 |
| Cyclohexane | 0.782 | 0.765 | 0.681 | 0.690 | 0.716 | 0.682 | 0.719 | 6.1 |
| 2-Butanone | 0.138 | 0.142 | 0.128 | 0.113 | 0.132 | 0.122 | 0.129 | 8.1 |
| Carbon Tetrachloride | 0.343 | 0.420 | 0.418 | 0.443 | 0.478 | 0.458 | 0.426 | 11 |
| cis-1,2-Dichloroethene | 0.485 | 0.558 | 0.544 | 0.529 | 0.583 | 0.555 | 0.542 | 6.2 |
| Bromochloromethane | 0.313 | 0.316 | 0.297 | 0.303 | 0.311 | 0.299 | 0.307 | 2.6 |
| Chloroform | 0.792 | 0.938 | 0.908 | 0.871 | 0.946 | 0.896 | 0.892 | 6.3 |
| 1,1,1-Trichloroethane | 0.731 | 0.849 | 0.823 | 0.812 | 0.869 | 0.824 | 0.818 | 5.8 |
| Methylcyclohexane | 0.466 | 0.503 | 0.500 | 0.539 | 0.556 | 0.519 | 0.514 | 6.2 |
| Benzene | 1.152 | 1.297 | 1.226 | 1.210 | 1.309 | 1.221 | 1.236 | 4.7 |
| 1,2-Dichloroethane | 0.316 | 0.367 | 0.348 | 0.332 | 0.364 | 0.342 | 0.345 | 5.6 |
| Trichloroethene | 0.330 | 0.382 | 0.360 | 0.360 | 0.383 | 0.356 | 0.362 | 5.4 |
| 1,2-Dichloropropane | 0.254 | 0.313 | 0.297 | 0.296 | 0.323 | 0.301 | 0.297 | 7.9 |
| Bromodichloromethane | 0.378 | 0.439 | 0.433 | 0.419 | 0.466 | 0.436 | 0.428 | 6.8 |
| 4-Methyl-2-Pentanone | 0.167 | 0.200 | 0.191 | 0.180 | 0.207 | 0.190 | 0.189 | 7.5 |
| Toluene | 0.727 | 0.816 | 0.800 | 0.799 | 0.860 | 0.802 | 0.801 | 5.4 |
| t-1,3-Dichloropropene | 0.378 | 0.435 | 0.424 | 0.413 | 0.470 | 0.447 | 0.428 | 7.3 |
| cis-1,3-Dichloropropene | 0.443 | 0.520 | 0.503 | 0.486 | 0.546 | 0.514 | 0.502 | 7.1 |
| 1,1,2-Trichloroethane | 0.213 | 0.257 | 0.236 | 0.228 | 0.254 | 0.236 | 0.237 | 7 |

* 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.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: RMJE02

Lab Code: CHEM Case No.: O5252 SAS No.: O5252 SDG No.: O5252

Instrument ID: MSVOA_Y Calibration Date(s): 10/31/2023 10/31/2023

Heated Purge: (Y/N) Y Calibration Time(s): 12:26 14:40

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

LAB FILE ID: RRF005 = VY016142.D RRF010 = VY016143.D RRF020 = VY016144.D
RRF050 = VY016145.D RRF100 = VY016146.D RRF150 = VY016147.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 0.115 | 0.139 | 0.130 | 0.123 | 0.142 | 0.129 | 0.130 | 7.8 |
| Dibromochloromethane | 0.261 | 0.313 | 0.298 | 0.288 | 0.322 | 0.303 | 0.298 | 7.2 |
| 1,2-Dibromoethane | 0.203 | 0.237 | 0.228 | 0.217 | 0.242 | 0.227 | 0.226 | 6.2 |
| Tetrachloroethene | 0.431 | 0.472 | 0.446 | 0.445 | 0.458 | 0.416 | 0.445 | 4.5 |
| Chlorobenzene | 0.903 | 1.021 | 0.994 | 0.984 | 1.061 | 0.996 | 0.993 | 5.3 |
| Ethyl Benzene | 1.531 | 1.794 | 1.784 | 1.801 | 1.937 | 1.813 | 1.777 | 7.5 |
| m/p-Xylenes | 0.592 | 0.690 | 0.691 | 0.698 | 0.748 | 0.700 | 0.687 | 7.4 |
| o-Xylene | 0.580 | 0.657 | 0.649 | 0.655 | 0.716 | 0.676 | 0.656 | 6.8 |
| Styrene | 0.944 | 1.088 | 1.093 | 1.091 | 1.193 | 1.129 | 1.090 | 7.5 |
| Bromoform | 0.180 | 0.212 | 0.201 | 0.195 | 0.226 | 0.211 | 0.204 | 7.7 |
| Isopropylbenzene | 3.270 | 3.831 | 3.777 | 3.766 | 4.045 | 3.815 | 3.751 | 6.8 |
| 1,1,2,2-Tetrachloroethane | 0.530 | 0.642 | 0.599 | 0.549 | 0.645 | 0.617 | 0.597 | 8 |
| 1,3-Dichlorobenzene | 1.552 | 1.758 | 1.677 | 1.645 | 1.789 | 1.656 | 1.680 | 5.1 |
| 1,4-Dichlorobenzene | 1.597 | 1.746 | 1.675 | 1.588 | 1.747 | 1.608 | 1.660 | 4.4 |
| 1,2-Dichlorobenzene | 1.354 | 1.532 | 1.454 | 1.403 | 1.544 | 1.420 | 1.451 | 5.1 |
| 1,2-Dibromo-3-Chloropropane | 0.114 | 0.115 | 0.103 | 0.099 | 0.108 | 0.101 | 0.107 | 6.5 |
| 1,2,4-Trichlorobenzene | 0.907 | 0.961 | 0.910 | 0.883 | 0.907 | 0.807 | 0.896 | 5.7 |
| 1,2,3-Trichlorobenzene | 0.796 | 0.819 | 0.785 | 0.737 | 0.775 | 0.679 | 0.765 | 6.6 |
| 1,2-Dichloroethane-d4 | 0.466 | 0.460 | 0.471 | 0.439 | 0.505 | 0.466 | 0.468 | 4.6 |
| Dibromofluoromethane | 0.295 | 0.288 | 0.303 | 0.283 | 0.320 | 0.300 | 0.298 | 4.4 |
| Toluene-d8 | 1.142 | 1.123 | 1.164 | 1.155 | 1.301 | 1.205 | 1.182 | 5.5 |
| 4-Bromofluorobenzene | 0.423 | 0.395 | 0.401 | 0.372 | 0.434 | 0.401 | 0.404 | 5.4 |

* 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 : 82Y103123S.M
Title : SW846 8260
Last Update : Wed Nov 01 03:33:29 2023
Response Via : Initial Calibration

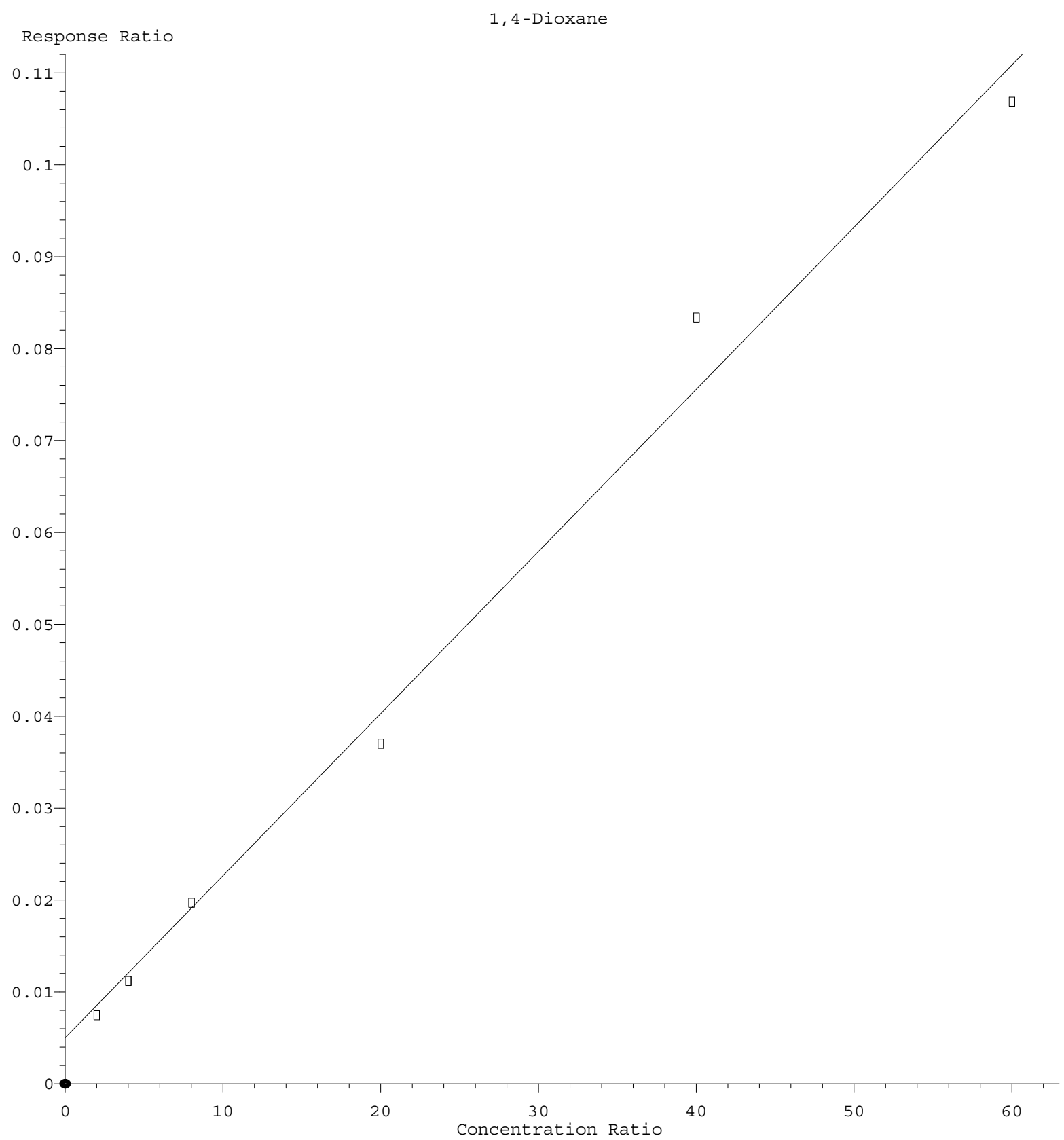
Calibration Files
5 =VY016142.D 10 =VY016143.D 20 =VY016144.D 50 =VY016145.D 100 =VY016146.D 150 =VY016147.D

| | | Compound | 5 | 10 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | |
| 2) | T | Dichlorodifluo... | 0.280 | 0.326 | 0.304 | 0.335 | 0.346 | 0.322 | 0.319 | 7.46 |
| 3) | P | Chloromethane | 0.424 | 0.471 | 0.443 | 0.435 | 0.451 | 0.425 | 0.442 | 4.04 |
| 4) | C | Vinyl Chloride | 0.402 | 0.465 | 0.440 | 0.469 | 0.495 | 0.464 | 0.456 | 6.92# |
| 5) | T | Bromomethane | 0.282 | 0.307 | 0.299 | 0.302 | 0.333 | 0.323 | 0.308 | 5.97 |
| 6) | T | Chloroethane | 0.277 | 0.333 | 0.322 | 0.318 | 0.346 | 0.328 | 0.321 | 7.28 |
| 7) | T | Trichlorofluor... | 0.619 | 0.704 | 0.671 | 0.702 | 0.735 | 0.697 | 0.688 | 5.76 |
| 8) | T | Diethyl Ether | 0.203 | 0.237 | 0.234 | 0.216 | 0.247 | 0.232 | 0.228 | 6.94 |
| 9) | T | 1,1,2-Trichlor... | 0.411 | 0.435 | 0.430 | 0.438 | 0.456 | 0.431 | 0.433 | 3.36 |
| 10) | T | Methyl Iodide | 0.419 | 0.479 | 0.474 | 0.477 | 0.539 | 0.506 | 0.482 | 8.25 |
| 11) | T | Tert butyl alc... | 0.041 | 0.039 | 0.036 | 0.028 | 0.033 | 0.031 | 0.035 | 13.97 |
| 12) | CM | 1,1-Dichloroet... | 0.371 | 0.409 | 0.392 | 0.390 | 0.419 | 0.394 | 0.396 | 4.21# |
| 13) | T | Acrolein | 0.043 | 0.037 | 0.038 | 0.028 | 0.033 | 0.031 | 0.035 | 15.58 |
| 14) | T | Allyl chloride | 0.514 | 0.587 | 0.564 | 0.556 | 0.602 | 0.571 | 0.566 | 5.35 |
| 15) | T | Acrylonitrile | 0.089 | 0.104 | 0.098 | 0.090 | 0.105 | 0.098 | 0.097 | 7.03 |
| 16) | T | Acetone | 0.118 | 0.102 | 0.084 | 0.069 | 0.077 | 0.069 | 0.086 | 22.62 |
| 17) | T | Carbon Disulfide | 0.858 | 0.981 | 0.958 | 1.015 | 1.088 | 1.026 | 0.988 | 7.82 |
| 18) | T | Methyl Acetate | 0.355 | 0.392 | 0.383 | 0.344 | 0.404 | 0.380 | 0.376 | 5.98 |
| 19) | T | Methyl tert-bu... | 0.969 | 1.171 | 1.139 | 1.071 | 1.240 | 1.162 | 1.125 | 8.35 |
| 20) | T | Methylene Chlo... | 0.683 | 0.611 | 0.511 | 0.459 | 0.485 | 0.448 | 0.533 | 17.59 |
| 21) | T | trans-1,2-Dich... | 0.421 | 0.460 | 0.466 | 0.457 | 0.492 | 0.469 | 0.461 | 5.03 |
| 22) | T | Diisopropyl ether | 1.198 | 1.407 | 1.379 | 1.320 | 1.493 | 1.415 | 1.369 | 7.36 |
| 23) | T | Vinyl Acetate | 0.594 | 0.689 | 0.674 | 0.640 | 0.737 | 0.698 | 0.672 | 7.40 |
| 24) | P | 1,1-Dichloroet... | 0.721 | 0.856 | 0.827 | 0.794 | 0.884 | 0.834 | 0.819 | 6.94 |
| 25) | T | 2-Butanone | 0.138 | 0.142 | 0.128 | 0.113 | 0.132 | 0.122 | 0.129 | 8.05 |
| 26) | T | 2,2-Dichloropr... | 0.669 | 0.789 | 0.775 | 0.776 | 0.839 | 0.798 | 0.774 | 7.32 |
| 27) | T | cis-1,2-Dichlo... | 0.485 | 0.558 | 0.544 | 0.529 | 0.583 | 0.555 | 0.542 | 6.18 |
| 28) | T | Bromochloromet... | 0.313 | 0.316 | 0.297 | 0.303 | 0.311 | 0.299 | 0.307 | 2.64 |
| 29) | T | Tetrahydrofuran | 0.072 | 0.086 | 0.082 | 0.075 | 0.088 | 0.083 | 0.081 | 7.55 |
| 30) | C | Chloroform | 0.792 | 0.938 | 0.908 | 0.871 | 0.946 | 0.896 | 0.892 | 6.29# |
| 31) | T | Cyclohexane | 0.782 | 0.765 | 0.681 | 0.690 | 0.716 | 0.682 | 0.719 | 6.14 |
| 32) | T | 1,1,1-Trichlor... | 0.731 | 0.849 | 0.823 | 0.812 | 0.869 | 0.824 | 0.818 | 5.81 |
| 33) | S | 1,2-Dichloroet... | 0.466 | 0.460 | 0.471 | 0.439 | 0.505 | 0.466 | 0.468 | 4.60 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | |
| 35) | S | Dibromofluorom... | 0.295 | 0.288 | 0.303 | 0.283 | 0.320 | 0.300 | 0.298 | 4.36 |
| 36) | T | 1,1-Dichloropr... | 0.390 | 0.452 | 0.430 | 0.430 | 0.455 | 0.426 | 0.430 | 5.39 |
| 37) | T | Ethyl Acetate | 0.179 | 0.207 | 0.185 | 0.180 | 0.205 | 0.194 | 0.192 | 6.33 |
| 38) | T | Carbon Tetrach... | 0.343 | 0.420 | 0.418 | 0.443 | 0.478 | 0.458 | 0.426 | 11.00 |
| 39) | T | Methylcyclohexane | 0.466 | 0.503 | 0.500 | 0.539 | 0.556 | 0.519 | 0.514 | 6.15 |
| 40) | TM | Benzene | 1.152 | 1.297 | 1.226 | 1.210 | 1.309 | 1.221 | 1.236 | 4.73 |
| 41) | T | Methacrylonitrile | 0.116 | 0.135 | 0.093 | 0.095 | 0.113 | 0.116 | 0.111 | 14.03 |
| 42) | TM | 1,2-Dichloroet... | 0.316 | 0.367 | 0.348 | 0.332 | 0.364 | 0.342 | 0.345 | 5.59 |
| 43) | T | Isopropyl Acetate | 0.335 | 0.406 | 0.382 | 0.354 | 0.415 | 0.383 | 0.379 | 8.08 |
| 44) | TM | Trichloroethene | 0.330 | 0.382 | 0.360 | 0.360 | 0.383 | 0.356 | 0.362 | 5.39 |
| 45) | C | 1,2-Dichloropr... | 0.254 | 0.313 | 0.297 | 0.296 | 0.323 | 0.301 | 0.297 | 7.89# |
| 46) | T | Dibromomethane | 0.152 | 0.178 | 0.167 | 0.165 | 0.181 | 0.169 | 0.169 | 6.17 |
| 47) | T | Bromodichlorom... | 0.378 | 0.439 | 0.433 | 0.419 | 0.466 | 0.436 | 0.428 | 6.81 |
| 48) | T | Methyl methacr... | 0.143 | 0.186 | 0.174 | 0.164 | 0.191 | 0.177 | 0.172 | 10.04 |
| 49) | T | 1,4-Dioxane | 0.004 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 30.01 |
| 50) | S | Toluene-d8 | 1.142 | 1.123 | 1.164 | 1.155 | 1.301 | 1.205 | 1.182 | 5.46 |
| 51) | T | 4-Methyl-2-Pen... | 0.167 | 0.200 | 0.191 | 0.180 | 0.207 | 0.190 | 0.189 | 7.53 |
| 52) | CM | Toluene | 0.727 | 0.816 | 0.800 | 0.799 | 0.860 | 0.802 | 0.801 | 5.36# |
| 53) | T | t-1,3-Dichloro... | 0.378 | 0.435 | 0.424 | 0.413 | 0.470 | 0.447 | 0.428 | 7.33 |
| 54) | T | cis-1,3-Dichlo... | 0.443 | 0.520 | 0.503 | 0.486 | 0.546 | 0.514 | 0.502 | 7.05 |
| 55) | T | 1,1,2-Trichlor... | 0.213 | 0.257 | 0.236 | 0.228 | 0.254 | 0.236 | 0.237 | 6.98 |
| 56) | T | Ethyl methacry... | 0.262 | 0.307 | 0.307 | 0.300 | 0.349 | 0.324 | 0.308 | 9.29 |

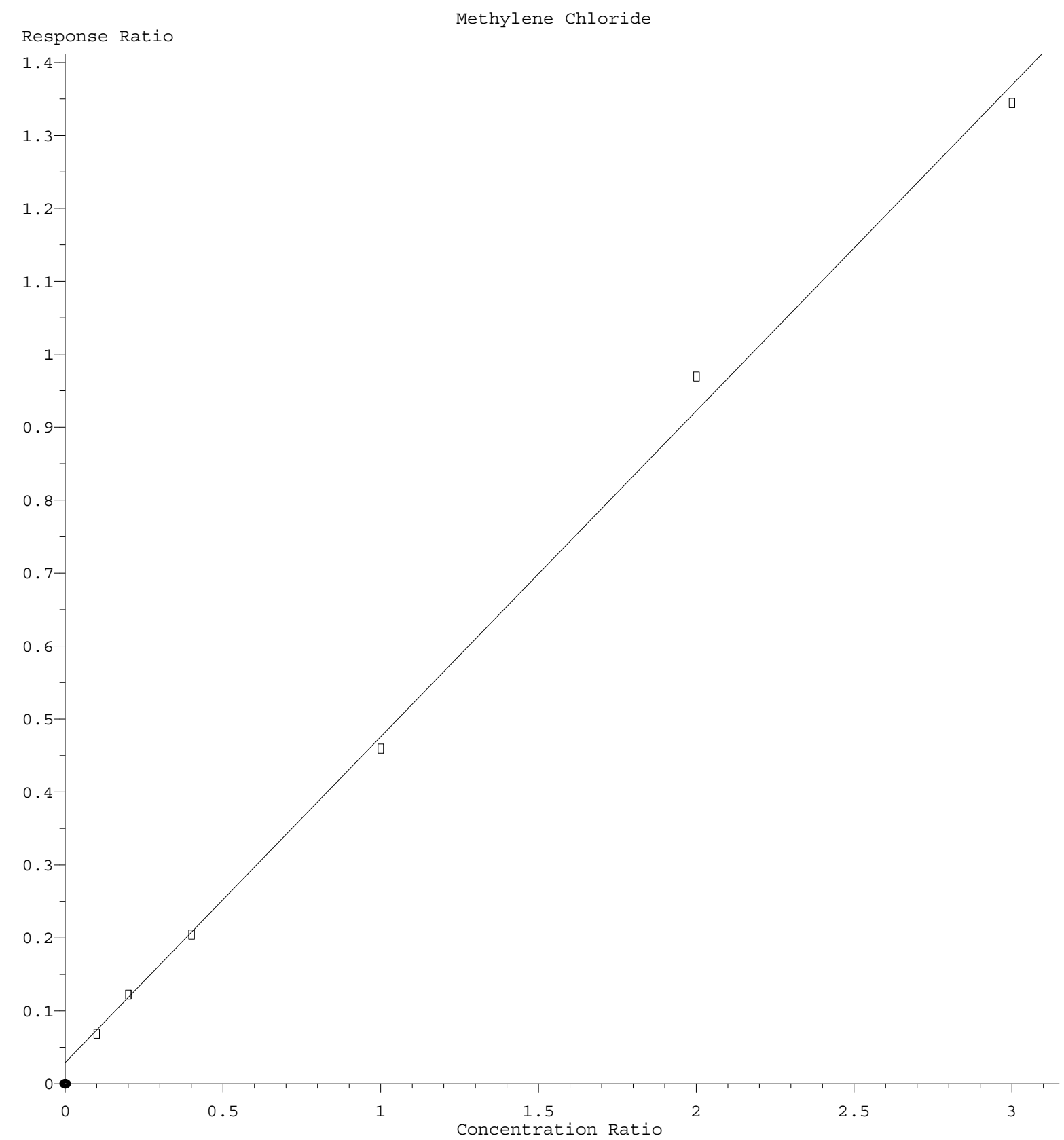
Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y103123S.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 57) | T | 1,3-Dichloropr... | 0.379 | 0.422 | 0.409 | 0.383 | 0.431 | 0.400 | 0.404 | 5.13 |
| 58) | T | 2-Chloroethyl ... | 0.146 | 0.146 | 0.153 | 0.141 | 0.159 | 0.151 | 0.149 | 4.16 |
| 59) | T | 2-Hexanone | 0.115 | 0.139 | 0.130 | 0.123 | 0.142 | 0.129 | 0.130 | 7.81 |
| 60) | T | Dibromochlorom... | 0.261 | 0.313 | 0.298 | 0.288 | 0.322 | 0.303 | 0.298 | 7.22 |
| 61) | T | 1,2-Dibromoethane | 0.203 | 0.237 | 0.228 | 0.217 | 0.242 | 0.227 | 0.226 | 6.21 |
| 62) | S | 4-Bromofluorob... | 0.423 | 0.395 | 0.401 | 0.372 | 0.434 | 0.401 | 0.404 | 5.38 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.431 | 0.472 | 0.446 | 0.445 | 0.458 | 0.416 | 0.445 | 4.48 |
| 65) | PM | Chlorobenzene | 0.903 | 1.021 | 0.994 | 0.984 | 1.061 | 0.996 | 0.993 | 5.28 |
| 66) | T | 1,1,1,2-Tetrac... | 0.314 | 0.380 | 0.368 | 0.365 | 0.400 | 0.382 | 0.368 | 7.92 |
| 67) | C | Ethyl Benzene | 1.531 | 1.794 | 1.784 | 1.801 | 1.937 | 1.813 | 1.777 | 7.48# |
| 68) | T | m/p-Xylenes | 0.592 | 0.690 | 0.691 | 0.698 | 0.748 | 0.700 | 0.687 | 7.44 |
| 69) | T | o-Xylene | 0.580 | 0.657 | 0.649 | 0.655 | 0.716 | 0.676 | 0.656 | 6.75 |
| 70) | T | Styrene | 0.944 | 1.088 | 1.093 | 1.091 | 1.193 | 1.129 | 1.090 | 7.50 |
| 71) | P | Bromoform | 0.180 | 0.212 | 0.201 | 0.195 | 0.226 | 0.211 | 0.204 | 7.71 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 3.270 | 3.831 | 3.777 | 3.766 | 4.045 | 3.815 | 3.751 | 6.85 |
| 74) | T | N-amyl acetate | 0.687 | 0.824 | 0.817 | 0.789 | 0.918 | 0.855 | 0.815 | 9.42 |
| 75) | P | 1,1,2,2-Tetrac... | 0.530 | 0.642 | 0.599 | 0.549 | 0.645 | 0.617 | 0.597 | 8.02 |
| 76) | T | 1,2,3-Trichlor... | 0.435 | 0.564 | 0.445 | 0.499 | 0.475 | 0.407 | 0.471 | 11.88 |
| 77) | T | Bromobenzene | 0.761 | 0.891 | 0.842 | 0.820 | 0.913 | 0.867 | 0.849 | 6.42 |
| 78) | T | n-propylbenzene | 3.987 | 4.505 | 4.459 | 4.473 | 4.751 | 4.430 | 4.434 | 5.59 |
| 79) | T | 2-Chlorotoluene | 2.192 | 2.561 | 2.519 | 2.440 | 2.642 | 2.486 | 2.473 | 6.22 |
| 80) | T | 1,3,5-Trimethy... | 2.715 | 3.098 | 3.083 | 3.035 | 3.267 | 3.034 | 3.039 | 5.93 |
| 81) | T | trans-1,4-Dich... | 0.196 | 0.219 | 0.210 | 0.205 | 0.243 | 0.230 | 0.217 | 8.03 |
| 82) | T | 4-Chlorotoluene | 2.320 | 2.613 | 2.564 | 2.493 | 2.715 | 2.533 | 2.540 | 5.20 |
| 83) | T | tert-Butylbenzene | 2.392 | 2.801 | 2.756 | 2.757 | 2.928 | 2.680 | 2.719 | 6.61 |
| 84) | T | 1,2,4-Trimethy... | 2.775 | 3.099 | 3.037 | 2.965 | 3.200 | 2.964 | 3.007 | 4.79 |
| 85) | T | sec-Butylbenzene | 3.629 | 4.091 | 4.042 | 4.024 | 4.259 | 3.898 | 3.991 | 5.32 |
| 86) | T | p-Isopropyltol... | 2.999 | 3.386 | 3.357 | 3.349 | 3.538 | 3.214 | 3.307 | 5.53 |
| 87) | T | 1,3-Dichlorobe... | 1.552 | 1.758 | 1.677 | 1.645 | 1.789 | 1.656 | 1.680 | 5.06 |
| 88) | T | 1,4-Dichlorobe... | 1.597 | 1.746 | 1.675 | 1.588 | 1.747 | 1.608 | 1.660 | 4.44 |
| 89) | T | n-Butylbenzene | 2.881 | 3.141 | 3.088 | 3.070 | 3.183 | 2.871 | 3.039 | 4.37 |
| 90) | T | Hexachloroethane | 0.471 | 0.565 | 0.565 | 0.575 | 0.645 | 0.598 | 0.570 | 9.99 |
| 91) | T | 1,2-Dichlorobe... | 1.354 | 1.532 | 1.454 | 1.403 | 1.544 | 1.420 | 1.451 | 5.15 |
| 92) | T | 1,2-Dibromo-3-... | 0.114 | 0.115 | 0.103 | 0.099 | 0.108 | 0.101 | 0.107 | 6.51 |
| 93) | T | 1,2,4-Trichlor... | 0.907 | 0.961 | 0.910 | 0.883 | 0.907 | 0.807 | 0.896 | 5.66 |
| 94) | T | Hexachlorobuta... | 0.500 | 0.544 | 0.515 | 0.488 | 0.472 | 0.418 | 0.489 | 8.75 |
| 95) | T | Naphthalene | 1.806 | 1.857 | 1.706 | 1.633 | 1.811 | 1.628 | 1.740 | 5.65 |
| 96) | T | 1,2,3-Trichlor... | 0.796 | 0.819 | 0.785 | 0.737 | 0.775 | 0.679 | 0.765 | 6.56 |

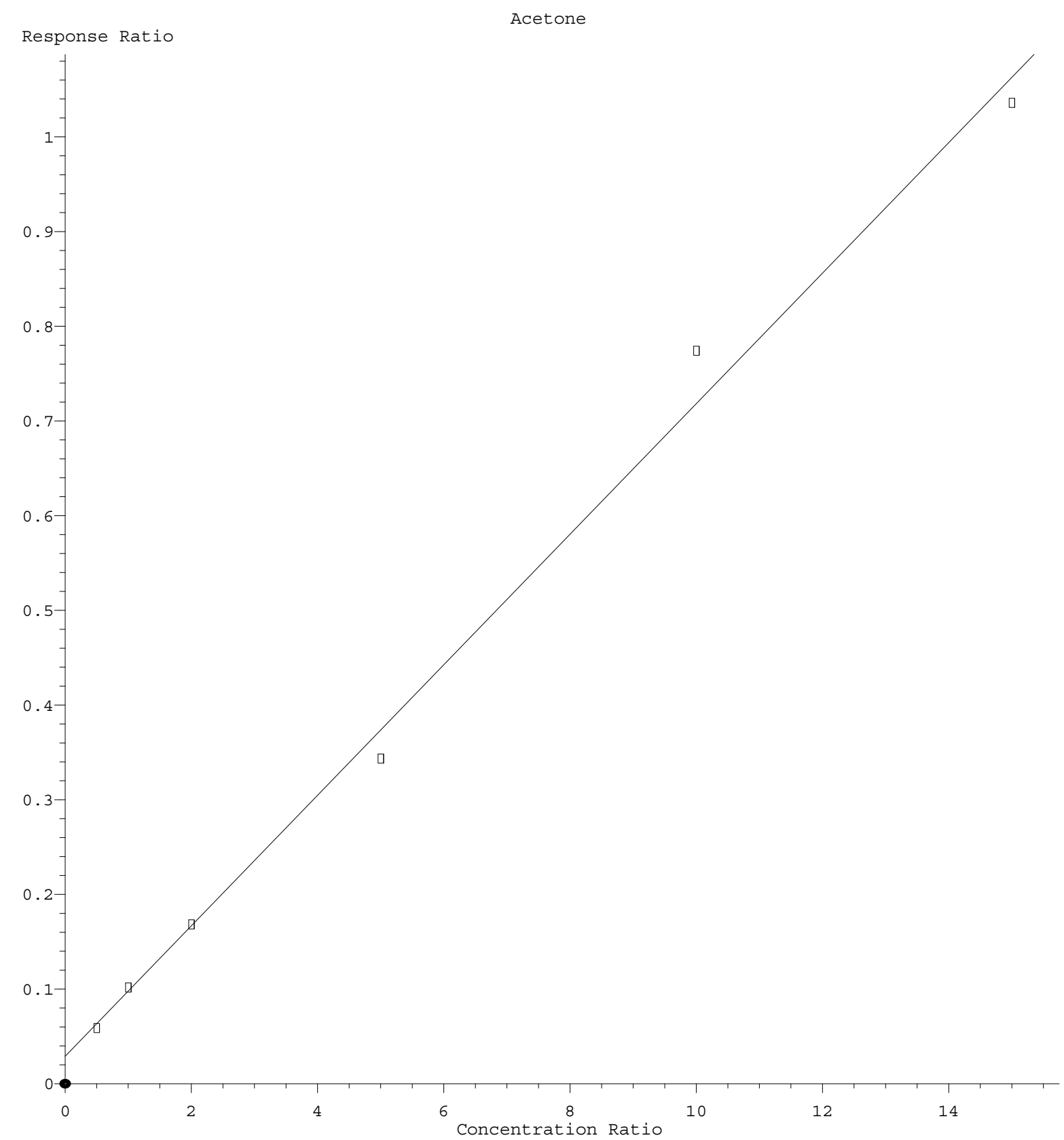
(#) = Out of Range



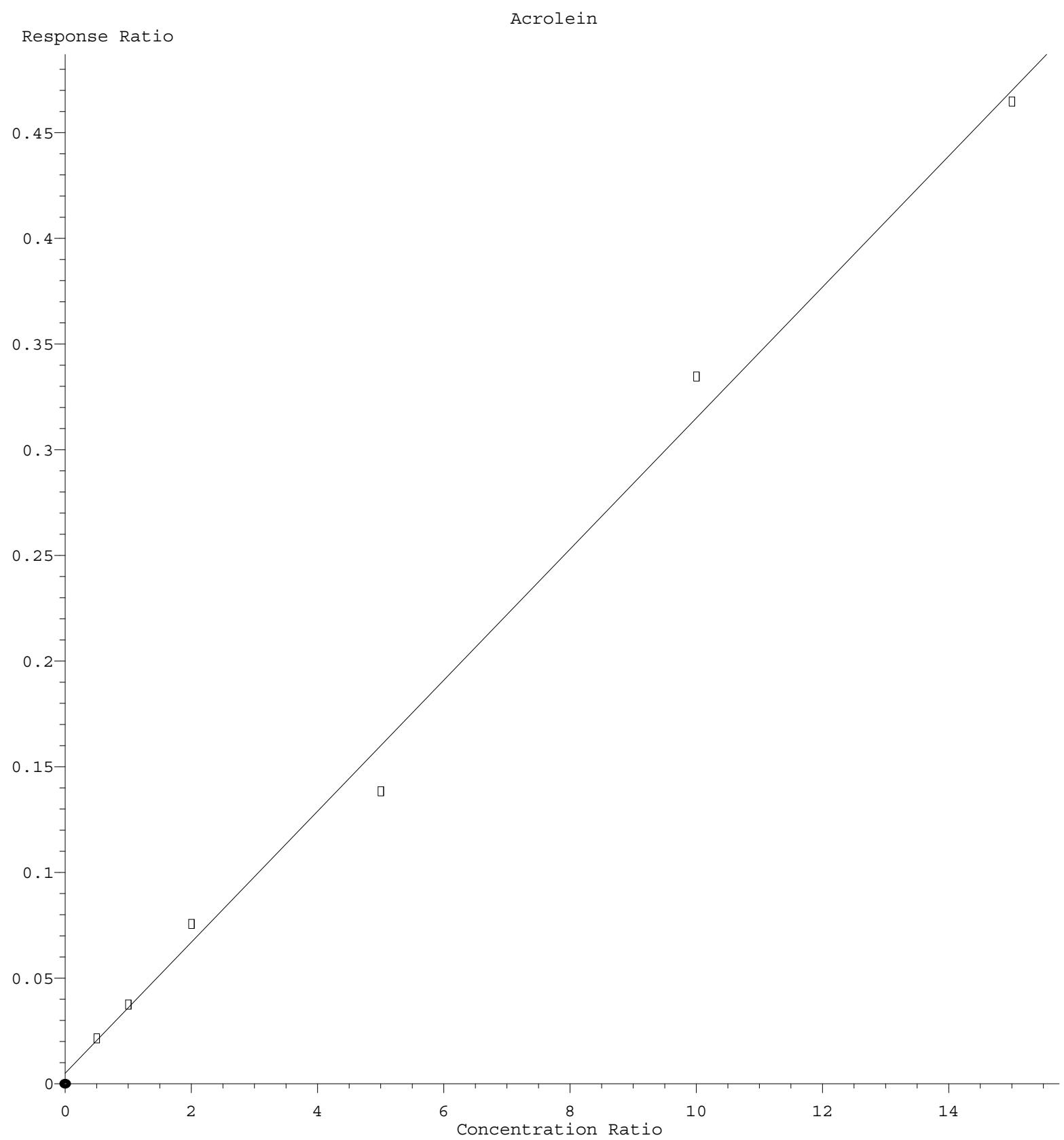

Response = 1.773e-003 * Amt + 4.658e-003
Coef of Det (r^2) = 0.989519  Curve Fit: Linear
Method Name:  Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y103123S.M
Calibration Table Last Updated: Wed Nov 01 03:33:29 2023




Response = 4.469e-001 * Amt + 2.899e-002
Coef of Det (r^2) = 0.997668  Curve Fit: Linear
Method Name:  Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y103123S.M
Calibration Table Last Updated: Wed Nov 01 03:33:29 2023




Response = 6.899e-002 * Amt + 2.850e-002
Coef of Det (r^2) = 0.994040  Curve Fit: Linear
Method Name:  Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y103123S.M
Calibration Table Last Updated: Wed Nov 01 03:33:29 2023




Response = 3.104e-002 * Amt + 5.391e-003
Coef of Det (r^2) = 0.994142  Curve Fit: Linear
Method Name:  Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y103123S.M
Calibration Table Last Updated: Wed Nov 01 03:33:29 2023

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016142.D
Acq On : 31 Oct 2023 12:26
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

Quant Time: Nov 01 03:14:27 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.807 | 168 | 175600 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.703 | 114 | 283774 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.502 | 117 | 247396 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.434 | 152 | 117344 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.155 | 65 | 8180 | 4.978 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 9.960%# | | | |
| 35) Dibromofluoromethane | 7.734 | 113 | 8362 | 4.943 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 9.880%# | | | |
| 50) Toluene-d8 | 10.191 | 98 | 32404 | 4.831 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 9.660%# | | | |
| 62) 4-Bromofluorobenzene | 12.495 | 95 | 12004 | 5.234 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = | 10.460%# | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.912 | 85 | 4910 | 4.383 | ug/l | | 99 |
| 3) Chloromethane | 2.125 | 50 | 7444 | 4.800 | ug/l | | 97 |
| 4) Vinyl Chloride | 2.259 | 62 | 7061 | 4.411 | ug/l | | 91 |
| 5) Bromomethane | 2.662 | 94 | 4944 | 4.577 | ug/l | | 96 |
| 6) Chloroethane | 2.808 | 64 | 4871 | 4.322 | ug/l | | 96 |
| 7) Trichlorofluoromethane | 3.143 | 101 | 10867 | 4.497 | ug/l | | 100 |
| 8) Diethyl Ether | 3.540 | 74 | 3566 | 4.452 | ug/l | | 88 |
| 9) 1,1,2-Trichlorotrifluo... | 3.918 | 101 | 7223 | 4.745 | ug/l | | 97 |
| 10) Methyl Iodide | 4.107 | 142 | 7351 | 4.342 | ug/l | | 99 |
| 11) Tert butyl alcohol | 4.972 | 59 | 3603 | 29.348 | ug/l | # | 90 |
| 12) 1,1-Dichloroethene | 3.893 | 96 | 6512 | 4.687 | ug/l | # | 79 |
| 13) Acrolein | 3.741 | 56 | 3770 | 25.898 | ug/l | | 100 |
| 14) Allyl chloride | 4.503 | 41 | 9028 | 4.542 | ug/l | | 97 |
| 15) Acrylonitrile | 5.186 | 53 | 7821 | 22.852 | ug/l | | 98 |
| 16) Acetone | 3.966 | 43 | 10329 | 21.976 | ug/l | | 99 |
| 17) Carbon Disulfide | 4.216 | 76 | 15075 | 4.346 | ug/l | # | 92 |
| 18) Methyl Acetate | 4.497 | 43 | 6228 | 4.713 | ug/l | # | 90 |
| 19) Methyl tert-butyl Ether | 5.234 | 73 | 17015 | 4.305 | ug/l | | 91 |
| 20) Methylene Chloride | 4.735 | 84 | 11992 | 4.398 | ug/l | | 85 |
| 21) trans-1,2-Dichloroethene | 5.241 | 96 | 7389 | 4.565 | ug/l | | 93 |
| 22) Diisopropyl ether | 6.137 | 45 | 21038 | 4.376 | ug/l | | 91 |
| 23) Vinyl Acetate | 6.082 | 43 | 52134 | 22.089 | ug/l | # | 88 |
| 24) 1,1-Dichloroethane | 6.039 | 63 | 12654 | 4.398 | ug/l | # | 89 |
| 25) 2-Butanone | 7.002 | 43 | 12077 | 26.641 | ug/l | | 99 |
| 26) 2,2-Dichloropropane | 6.996 | 77 | 11754 | 4.322 | ug/l | | 97 |
| 27) cis-1,2-Dichloroethene | 7.009 | 96 | 8513 | 4.469 | ug/l | | 91 |
| 28) Bromochloromethane | 7.350 | 49 | 5502 | 5.111 | ug/l | # | 92 |
| 29) Tetrahydrofuran | 7.368 | 42 | 6331 | 22.279 | ug/l | | 93 |
| 30) Chloroform | 7.521 | 83 | 13911 | 4.441 | ug/l | | 95 |
| 31) Cyclohexane | 7.801 | 56 | 13727 | 5.434 | ug/l | # | 65 |
| 32) 1,1,1-Trichloroethane | 7.722 | 97 | 12828 | 4.466 | ug/l | | 98 |
| 36) 1,1-Dichloropropene | 7.935 | 75 | 11067 | 4.530 | ug/l | | 99 |
| 37) Ethyl Acetate | 7.094 | 43 | 5080 | 4.669 | ug/l | | 99 |
| 38) Carbon Tetrachloride | 7.917 | 117 | 9725 | 4.018 | ug/l | | 88 |
| 39) Methylcyclohexane | 9.197 | 83 | 13227 | 4.536 | ug/l | | 94 |
| 40) Benzene | 8.179 | 78 | 32688 | 4.661 | ug/l | | 95 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016142.D
Acq On : 31 Oct 2023 12:26
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

Quant Time: Nov 01 03:14:27 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.332 | 41 | 3298 | 5.222 | ug/l | # | 80 |
| 42) 1,2-Dichloroethane | 8.252 | 62 | 8971 | 4.584 | ug/l | | 95 |
| 43) Isopropyl Acetate | 8.289 | 43 | 9496 | 4.412 | ug/l | | 95 |
| 44) Trichloroethene | 8.953 | 130 | 9360 | 4.561 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 9.228 | 63 | 7213 | 4.275 | ug/l | | 99 |
| 46) Dibromomethane | 9.319 | 93 | 4317 | 4.511 | ug/l | | 96 |
| 47) Bromodichloromethane | 9.514 | 83 | 10723 | 4.410 | ug/l | | 95 |
| 48) Methyl methacrylate | 9.307 | 41 | 4063 | 4.151 | ug/l | # | 88 |
| 49) 1,4-Dioxane | 9.319 | 88 | 2118 | 60.320 | ug/l | # | 52 |
| 51) 4-Methyl-2-Pentanone | 10.081 | 43 | 23675 | 22.046 | ug/l | | 94 |
| 52) Toluene | 10.258 | 92 | 20634 | 4.540 | ug/l | | 94 |
| 53) t-1,3-Dichloropropene | 10.477 | 75 | 10727 | 4.419 | ug/l | | 95 |
| 54) cis-1,3-Dichloropropene | 9.941 | 75 | 12557 | 4.408 | ug/l | # | 89 |
| 55) 1,1,2-Trichloroethane | 10.654 | 97 | 6033 | 4.481 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.520 | 69 | 7433 | 4.251 | ug/l | | 88 |
| 57) 1,3-Dichloropropane | 10.801 | 76 | 10755 | 4.693 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.795 | 63 | 20735 | 24.457 | ug/l | | 91 |
| 59) 2-Hexanone | 10.843 | 43 | 16320 | 22.177 | ug/l | | 93 |
| 60) Dibromochloromethane | 10.996 | 129 | 7398 | 4.380 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.099 | 107 | 5766 | 4.503 | ug/l | | 97 |
| 64) Tetrachloroethene | 10.733 | 164 | 10663 | 4.846 | ug/l | | 93 |
| 65) Chlorobenzene | 11.526 | 112 | 22328 | 4.543 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.599 | 131 | 7771 | 4.269 | ug/l | | 93 |
| 67) Ethyl Benzene | 11.605 | 91 | 37881 | 4.309 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.715 | 106 | 29304 | 8.626 | ug/l | | 99 |
| 69) o-Xylene | 12.044 | 106 | 14348 | 4.424 | ug/l | | 95 |
| 70) Styrene | 12.056 | 104 | 23359 | 4.332 | ug/l | | 97 |
| 71) Bromoform | 12.221 | 173 | 4453 | 4.409 | ug/l | # | 95 |
| 73) Isopropylbenzene | 12.343 | 105 | 38366 | 4.359 | ug/l | | 100 |
| 74) N-amyl acetate | 12.154 | 43 | 8057 | 4.212 | ug/l | # | 91 |
| 75) 1,1,2,2-Tetrachloroethane | 12.593 | 83 | 6219 | 4.440 | ug/l | | 92 |
| 76) 1,2,3-Trichloropropane | 12.642 | 75 | 5108m | 4.125 | ug/l | | |
| 77) Bromobenzene | 12.623 | 156 | 8930 | 4.480 | ug/l | | 94 |
| 78) n-propylbenzene | 12.678 | 91 | 46789 | 4.496 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.770 | 91 | 25722 | 4.432 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.825 | 105 | 31858 | 4.467 | ug/l | | 96 |
| 81) trans-1,4-Dichloro-2-b... | 12.392 | 75 | 2297 | 4.507 | ug/l | | 93 |
| 82) 4-Chlorotoluene | 12.867 | 91 | 27225 | 4.568 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.087 | 119 | 28072 | 4.399 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.129 | 105 | 32562 | 4.615 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.263 | 105 | 42584 | 4.547 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.379 | 119 | 35196 | 4.534 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.373 | 146 | 18216 | 4.621 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.459 | 146 | 18734 | 4.809 | ug/l | | 93 |
| 89) n-Butylbenzene | 13.709 | 91 | 33801 | 4.739 | ug/l | | 97 |
| 90) Hexachloroethane | 13.971 | 117 | 5530 | 4.134 | ug/l | | 93 |
| 91) 1,2-Dichlorobenzene | 13.751 | 146 | 15889 | 4.665 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.367 | 75 | 1342 | 5.354 | ug/l | | 93 |
| 93) 1,2,4-Trichlorobenzene | 15.013 | 180 | 10638 | 5.061 | ug/l | | 97 |
| 94) Hexachlorobutadiene | 15.123 | 225 | 5863 | 5.104 | ug/l | | 97 |
| 95) Naphthalene | 15.245 | 128 | 21188 | 5.188 | ug/l | | 97 |
| 96) 1,2,3-Trichlorobenzene | 15.434 | 180 | 9342 | 5.202 | ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016142.D
Acq On : 31 Oct 2023 12:26
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

Quant Time: Nov 01 03:14:27 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

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

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

ICAL Form

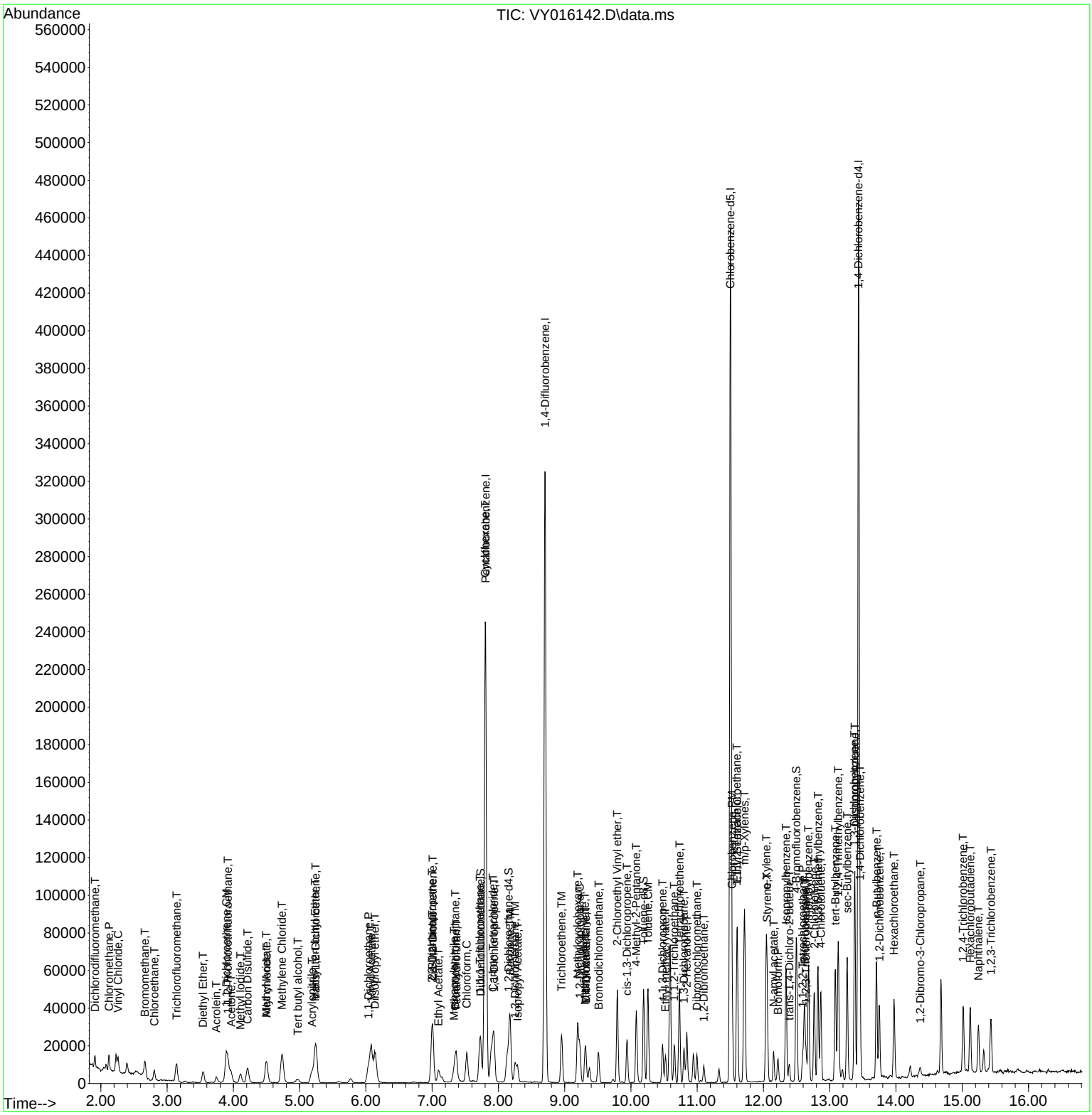
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016142.D
Acq On : 31 Oct 2023 12:26
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 01 03:14:27 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016143.D
Acq On : 31 Oct 2023 12:49
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

Quant Time: Nov 01 03:15:32 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.801 | 168 | 184611 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.697 | 114 | 291032 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.502 | 117 | 256463 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.434 | 152 | 119527 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.149 | 65 | 16985 | 9.832 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 19.660%# | | |
| 35) Dibromofluoromethane | 7.728 | 113 | 16739 | 9.648 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 19.300%# | | |
| 50) Toluene-d8 | 10.191 | 98 | 65389 | 9.505 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 19.020%# | | |
| 62) 4-Bromofluorobenzene | 12.489 | 95 | 22964 | 9.762 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = | 19.520%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.906 | 85 | 12034 | 10.219 | ug/l | 94 |
| 3) Chloromethane | 2.119 | 50 | 17405 | 10.675 | ug/l | 98 |
| 4) Vinyl Chloride | 2.253 | 62 | 17186 | 10.213 | ug/l | 95 |
| 5) Bromomethane | 2.656 | 94 | 11334 | 9.980 | ug/l | 97 |
| 6) Chloroethane | 2.802 | 64 | 12307 | 10.388 | ug/l | 94 |
| 7) Trichlorofluoromethane | 3.131 | 101 | 26006 | 10.237 | ug/l | 99 |
| 8) Diethyl Ether | 3.534 | 74 | 8755 | 10.398 | ug/l | 88 |
| 9) 1,1,2-Trichlorotrifluo... | 3.905 | 101 | 16056 | 10.032 | ug/l | 98 |
| 10) Methyl Iodide | 4.101 | 142 | 17668 | 9.928 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.948 | 59 | 7274 | 56.358 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.881 | 96 | 15091 | 10.331 | ug/l | 90 |
| 13) Acrolein | 3.741 | 56 | 6920 | 51.694 | ug/l | 98 |
| 14) Allyl chloride | 4.491 | 41 | 21678 | 10.375 | ug/l | 96 |
| 15) Acrylonitrile | 5.174 | 53 | 19289 | 53.610 | ug/l | 97 |
| 16) Acetone | 3.960 | 43 | 18771 | 53.039 | ug/l | 89 |
| 17) Carbon Disulfide | 4.204 | 76 | 36227 | 9.933 | ug/l | 97 |
| 18) Methyl Acetate | 4.491 | 43 | 14472 | 10.417 | ug/l # | 90 |
| 19) Methyl tert-butyl Ether | 5.228 | 73 | 43244 | 10.407 | ug/l | 100 |
| 20) Methylene Chloride | 4.728 | 84 | 22543 | 10.419 | ug/l | 86 |
| 21) trans-1,2-Dichloroethene | 5.234 | 96 | 16987 | 9.983 | ug/l | 98 |
| 22) Diisopropyl ether | 6.125 | 45 | 51950 | 10.279 | ug/l | 92 |
| 23) Vinyl Acetate | 6.070 | 43 | 127237 | 51.277 | ug/l # | 94 |
| 24) 1,1-Dichloroethane | 6.027 | 63 | 31587 | 10.443 | ug/l | 98 |
| 25) 2-Butanone | 6.996 | 43 | 26134 | 54.835 | ug/l | 93 |
| 26) 2,2-Dichloropropane | 6.996 | 77 | 29132 | 10.189 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 7.002 | 96 | 20602 | 10.288 | ug/l | 93 |
| 28) Bromochloromethane | 7.344 | 49 | 11660 | 10.302 | ug/l | 89 |
| 29) Tetrahydrofuran | 7.362 | 42 | 15900 | 53.221 | ug/l | 91 |
| 30) Chloroform | 7.521 | 83 | 34623 | 10.514 | ug/l | 98 |
| 31) Cyclohexane | 7.801 | 56 | 28248 | 10.637 | ug/l # | 83 |
| 32) 1,1,1-Trichloroethane | 7.710 | 97 | 31360 | 10.384 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 7.929 | 75 | 26284 | 10.491 | ug/l | 99 |
| 37) Ethyl Acetate | 7.082 | 43 | 12029 | 10.780 | ug/l # | 97 |
| 38) Carbon Tetrachloride | 7.917 | 117 | 24442 | 9.847 | ug/l | 95 |
| 39) Methylcyclohexane | 9.197 | 83 | 29283 | 9.792 | ug/l | 91 |
| 40) Benzene | 8.173 | 78 | 75500 | 10.497 | ug/l | 97 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016143.D
Acq On : 31 Oct 2023 12:49
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

Quant Time: Nov 01 03:15:32 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.326 | 41 | 7844 | 12.110 ug/l # | 82 |
| 42) 1,2-Dichloroethane | 8.252 | 62 | 21349 | 10.636 ug/l | 94 |
| 43) Isopropyl Acetate | 8.283 | 43 | 23637 | 10.709 ug/l | 95 |
| 44) Trichloroethene | 8.953 | 130 | 22213 | 10.553 ug/l | 98 |
| 45) 1,2-Dichloropropane | 9.228 | 63 | 18191 | 10.513 ug/l | 93 |
| 46) Dibromomethane | 9.313 | 93 | 10370 | 10.565 ug/l | 96 |
| 47) Bromodichloromethane | 9.508 | 83 | 25551 | 10.245 ug/l | 90 |
| 48) Methyl methacrylate | 9.301 | 41 | 10849 | 10.809 ug/l | 91 |
| 49) 1,4-Dioxane | 9.307 | 88 | 3255 | 163.411 ug/l # | 47 |
| 51) 4-Methyl-2-Pentanone | 10.081 | 43 | 58089 | 52.742 ug/l | 92 |
| 52) Toluene | 10.252 | 92 | 47506 | 10.193 ug/l | 94 |
| 53) t-1,3-Dichloropropene | 10.477 | 75 | 25300 | 10.162 ug/l | 98 |
| 54) cis-1,3-Dichloropropene | 9.941 | 75 | 30283 | 10.366 ug/l | 90 |
| 55) 1,1,2-Trichloroethane | 10.654 | 97 | 14945 | 10.824 ug/l | 93 |
| 56) Ethyl methacrylate | 10.520 | 69 | 17851 | 9.955 ug/l # | 89 |
| 57) 1,3-Dichloropropane | 10.801 | 76 | 24556 | 10.447 ug/l | 96 |
| 58) 2-Chloroethyl Vinyl ether | 9.795 | 63 | 42516 | 48.898 ug/l | 93 |
| 59) 2-Hexanone | 10.843 | 43 | 40561 | 53.742 ug/l | 94 |
| 60) Dibromochloromethane | 10.996 | 129 | 18231 | 10.525 ug/l | 100 |
| 61) 1,2-Dibromoethane | 11.099 | 107 | 13778 | 10.491 ug/l | 99 |
| 64) Tetrachloroethene | 10.727 | 164 | 24227 | 10.620 ug/l | 98 |
| 65) Chlorobenzene | 11.526 | 112 | 52395 | 10.283 ug/l | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.599 | 131 | 19487 | 10.326 ug/l | 98 |
| 67) Ethyl Benzene | 11.605 | 91 | 92035 | 10.099 ug/l | 96 |
| 68) m/p-Xylenes | 11.715 | 106 | 70787 | 20.101 ug/l | 95 |
| 69) o-Xylene | 12.038 | 106 | 33720 | 10.029 ug/l | 99 |
| 70) Styrene | 12.056 | 104 | 55822 | 9.987 ug/l | 97 |
| 71) Bromoform | 12.215 | 173 | 10897 | 10.408 ug/l # | 98 |
| 73) Isopropylbenzene | 12.343 | 105 | 91589 | 10.215 ug/l | 100 |
| 74) N-amyl acetate | 12.154 | 43 | 19703 | 10.113 ug/l # | 88 |
| 75) 1,1,2,2-Tetrachloroethane | 12.593 | 83 | 15337 | 10.750 ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 12.642 | 75 | 13494m | 10.698 ug/l | |
| 77) Bromobenzene | 12.617 | 156 | 21308 | 10.495 ug/l | 92 |
| 78) n-propylbenzene | 12.678 | 91 | 107701 | 10.160 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.764 | 91 | 61216 | 10.354 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.825 | 105 | 74060 | 10.195 ug/l | 97 |
| 81) trans-1,4-Dichloro-2-b... | 12.392 | 75 | 5227 | 10.069 ug/l | 98 |
| 82) 4-Chlorotoluene | 12.867 | 91 | 62473 | 10.290 ug/l | 99 |
| 83) tert-Butylbenzene | 13.087 | 119 | 66956 | 10.302 ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.129 | 105 | 74071 | 10.305 ug/l | 100 |
| 85) sec-Butylbenzene | 13.264 | 105 | 97796 | 10.252 ug/l | 99 |
| 86) p-Isopropyltoluene | 13.379 | 119 | 80953 | 10.239 ug/l | 98 |
| 87) 1,3-Dichlorobenzene | 13.373 | 146 | 42022 | 10.466 ug/l | 100 |
| 88) 1,4-Dichlorobenzene | 13.459 | 146 | 41735 | 10.517 ug/l | 97 |
| 89) n-Butylbenzene | 13.702 | 91 | 75084 | 10.336 ug/l | 97 |
| 90) Hexachloroethane | 13.971 | 117 | 13517 | 9.921 ug/l | 92 |
| 91) 1,2-Dichlorobenzene | 13.751 | 146 | 36620 | 10.556 ug/l | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.367 | 75 | 2755 | 10.790 ug/l | 95 |
| 93) 1,2,4-Trichlorobenzene | 15.019 | 180 | 22979 | 10.732 ug/l | 97 |
| 94) Hexachlorobutadiene | 15.123 | 225 | 13002 | 11.112 ug/l | 96 |
| 95) Naphthalene | 15.245 | 128 | 44389 | 10.671 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.434 | 180 | 19583 | 10.706 ug/l | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016143.D
Acq On : 31 Oct 2023 12:49
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

Quant Time: Nov 01 03:15:32 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

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

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

ICAL Form

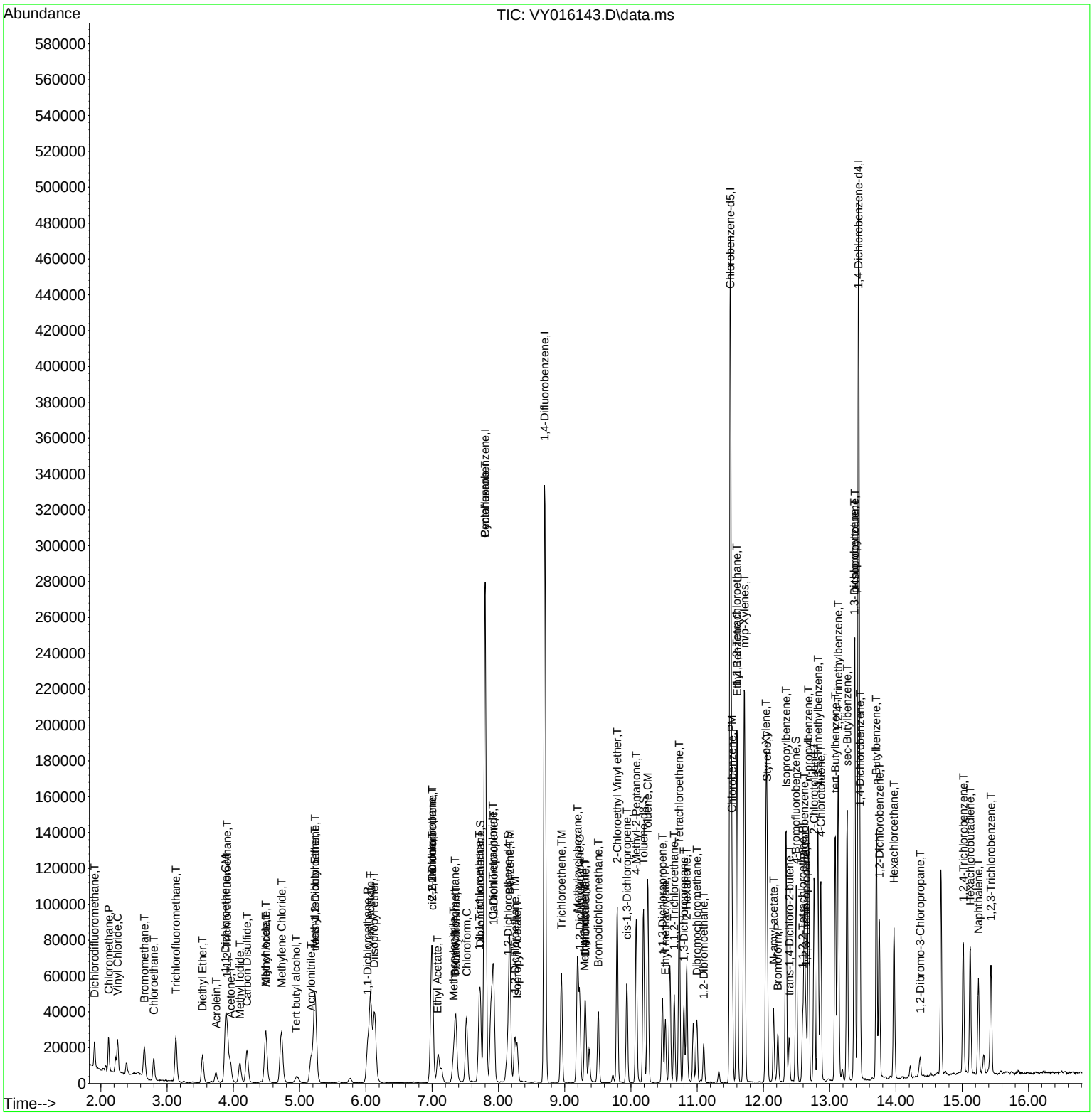
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016143.D
Acq On : 31 Oct 2023 12:49
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 01 03:15:32 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016144.D
Acq On : 31 Oct 2023 13:12
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

Quant Time: Nov 01 03:16:19 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.801 | 168 | 180987 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.703 | 114 | 287034 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.502 | 117 | 249953 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.434 | 152 | 116324 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.155 | 65 | 34131 | 20.153 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 40.300%# | | |
| 35) Dibromofluoromethane | 7.728 | 113 | 34794 | 20.333 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 40.660%# | | |
| 50) Toluene-d8 | 10.191 | 98 | 133672 | 19.702 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 39.400%# | | |
| 62) 4-Bromofluorobenzene | 12.489 | 95 | 46006 | 19.830 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = | 39.660% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.906 | 85 | 22029 | 19.081 | ug/l | 97 |
| 3) Chloromethane | 2.119 | 50 | 32053 | 20.053 | ug/l | 98 |
| 4) Vinyl Chloride | 2.253 | 62 | 31826 | 19.291 | ug/l | 95 |
| 5) Bromomethane | 2.656 | 94 | 21642 | 19.438 | ug/l | 96 |
| 6) Chloroethane | 2.796 | 64 | 23310 | 20.069 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.137 | 101 | 48565 | 19.499 | ug/l | 99 |
| 8) Diethyl Ether | 3.540 | 74 | 16908 | 20.482 | ug/l | 87 |
| 9) 1,1,2-Trichlorotrifluo... | 3.911 | 101 | 31112 | 19.828 | ug/l | 96 |
| 10) Methyl Iodide | 4.107 | 142 | 34292 | 19.654 | ug/l | 96 |
| 11) Tert butyl alcohol | 4.966 | 59 | 13174 | 104.114 | ug/l # | 84 |
| 12) 1,1-Dichloroethene | 3.881 | 96 | 28387 | 19.822 | ug/l | 88 |
| 13) Acrolein | 3.741 | 56 | 13680 | 113.065 | ug/l | 98 |
| 14) Allyl chloride | 4.497 | 41 | 40834 | 19.934 | ug/l # | 95 |
| 15) Acrylonitrile | 5.180 | 53 | 35511 | 100.672 | ug/l | 99 |
| 16) Acetone | 3.954 | 43 | 30469 | 101.361 | ug/l | 98 |
| 17) Carbon Disulfide | 4.204 | 76 | 69374 | 19.403 | ug/l | 99 |
| 18) Methyl Acetate | 4.485 | 43 | 27722 | 20.355 | ug/l | 93 |
| 19) Methyl tert-butyl Ether | 5.234 | 73 | 82475 | 20.246 | ug/l | 99 |
| 20) Methylene Chloride | 4.734 | 84 | 36998 | 19.629 | ug/l | 89 |
| 21) trans-1,2-Dichloroethene | 5.234 | 96 | 33714 | 20.210 | ug/l | 89 |
| 22) Diisopropyl ether | 6.137 | 45 | 99862 | 20.155 | ug/l | 87 |
| 23) Vinyl Acetate | 6.076 | 43 | 244067 | 100.330 | ug/l # | 93 |
| 24) 1,1-Dichloroethane | 6.027 | 63 | 59850 | 20.184 | ug/l | 96 |
| 25) 2-Butanone | 6.996 | 43 | 46351 | 99.203 | ug/l | 93 |
| 26) 2,2-Dichloropropane | 6.996 | 77 | 56073 | 20.004 | ug/l | 97 |
| 27) cis-1,2-Dichloroethene | 6.996 | 96 | 39382 | 20.061 | ug/l | 93 |
| 28) Bromochloromethane | 7.350 | 49 | 21480 | 19.358 | ug/l | 89 |
| 29) Tetrahydrofuran | 7.362 | 42 | 29723 | 101.482 | ug/l | 91 |
| 30) Chloroform | 7.521 | 83 | 65741 | 20.364 | ug/l | 96 |
| 31) Cyclohexane | 7.801 | 56 | 49266 | 18.924 | ug/l # | 80 |
| 32) 1,1,1-Trichloroethane | 7.716 | 97 | 59555 | 20.115 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 7.929 | 75 | 49358 | 19.975 | ug/l | 99 |
| 37) Ethyl Acetate | 7.088 | 43 | 21295 | 19.349 | ug/l # | 92 |
| 38) Carbon Tetrachloride | 7.911 | 117 | 47955 | 19.589 | ug/l | 98 |
| 39) Methylcyclohexane | 9.197 | 83 | 57388 | 19.457 | ug/l | 95 |
| 40) Benzene | 8.173 | 78 | 140773 | 19.844 | ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016144.D
Acq On : 31 Oct 2023 13:12
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 01 03:16:19 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.319 | 41 | 10649 | 16.670 | ug/l | | 96 |
| 42) 1,2-Dichloroethane | 8.246 | 62 | 40007 | 20.209 | ug/l | | 96 |
| 43) Isopropyl Acetate | 8.283 | 43 | 43882 | 20.157 | ug/l | | 93 |
| 44) Trichloroethene | 8.953 | 130 | 41320 | 19.904 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 9.228 | 63 | 34091 | 19.977 | ug/l | | 96 |
| 46) Dibromomethane | 9.319 | 93 | 19185 | 19.818 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.508 | 83 | 49766 | 20.233 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.301 | 41 | 19937 | 20.140 | ug/l | | 90 |
| 49) 1,4-Dioxane | 9.313 | 88 | 5652 | 399.114 | ug/l | # | 75 |
| 51) 4-Methyl-2-Pentanone | 10.081 | 43 | 109849 | 101.127 | ug/l | | 92 |
| 52) Toluene | 10.252 | 92 | 91846 | 19.980 | ug/l | | 94 |
| 53) t-1,3-Dichloropropene | 10.477 | 75 | 48627 | 19.804 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.941 | 75 | 57710 | 20.030 | ug/l | | 89 |
| 55) 1,1,2-Trichloroethane | 10.654 | 97 | 27039 | 19.856 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.520 | 69 | 35286 | 19.953 | ug/l | # | 84 |
| 57) 1,3-Dichloropropane | 10.800 | 76 | 46913 | 20.237 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.795 | 63 | 88076 | 102.707 | ug/l | | 92 |
| 59) 2-Hexanone | 10.843 | 43 | 74594 | 100.212 | ug/l | | 92 |
| 60) Dibromochloromethane | 10.996 | 129 | 34259 | 20.054 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.099 | 107 | 26199 | 20.227 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.733 | 164 | 44595 | 20.058 | ug/l | | 97 |
| 65) Chlorobenzene | 11.526 | 112 | 99410 | 20.018 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.599 | 131 | 36767 | 19.989 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.605 | 91 | 178369 | 20.082 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.715 | 106 | 138144 | 40.249 | ug/l | | 93 |
| 69) o-Xylene | 12.038 | 106 | 64899 | 19.804 | ug/l | | 97 |
| 70) Styrene | 12.056 | 104 | 109259 | 20.056 | ug/l | | 96 |
| 71) Bromoform | 12.221 | 173 | 20064 | 19.663 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.337 | 105 | 175735 | 20.140 | ug/l | | 99 |
| 74) N-amyl acetate | 12.154 | 43 | 38021 | 20.052 | ug/l | # | 91 |
| 75) 1,1,2,2-Tetrachloroethane | 12.593 | 83 | 27870 | 20.072 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.642 | 75 | 20694m | 16.858 | ug/l | | |
| 77) Bromobenzene | 12.617 | 156 | 39194 | 19.837 | ug/l | | 95 |
| 78) n-propylbenzene | 12.678 | 91 | 207460 | 20.110 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 12.770 | 91 | 117191 | 20.368 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.825 | 105 | 143452 | 20.292 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.386 | 75 | 9767 | 19.332 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.867 | 91 | 119295 | 20.191 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.087 | 119 | 128241 | 20.274 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.129 | 105 | 141324 | 20.203 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.263 | 105 | 188074 | 20.258 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.379 | 119 | 156198 | 20.300 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.379 | 146 | 78029 | 19.969 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.459 | 146 | 77935 | 20.179 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.702 | 91 | 143668 | 20.321 | ug/l | | 96 |
| 90) Hexachloroethane | 13.971 | 117 | 26308 | 19.841 | ug/l | | 93 |
| 91) 1,2-Dichlorobenzene | 13.751 | 146 | 67654 | 20.039 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.367 | 75 | 4782 | 19.244 | ug/l | | 90 |
| 93) 1,2,4-Trichlorobenzene | 15.019 | 180 | 42354 | 20.325 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.117 | 225 | 23979 | 21.058 | ug/l | | 95 |
| 95) Naphthalene | 15.245 | 128 | 79385 | 19.610 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.434 | 180 | 36519 | 20.515 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016144.D
Acq On : 31 Oct 2023 13:12
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

Quant Time: Nov 01 03:16:19 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

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

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

ICAL Form

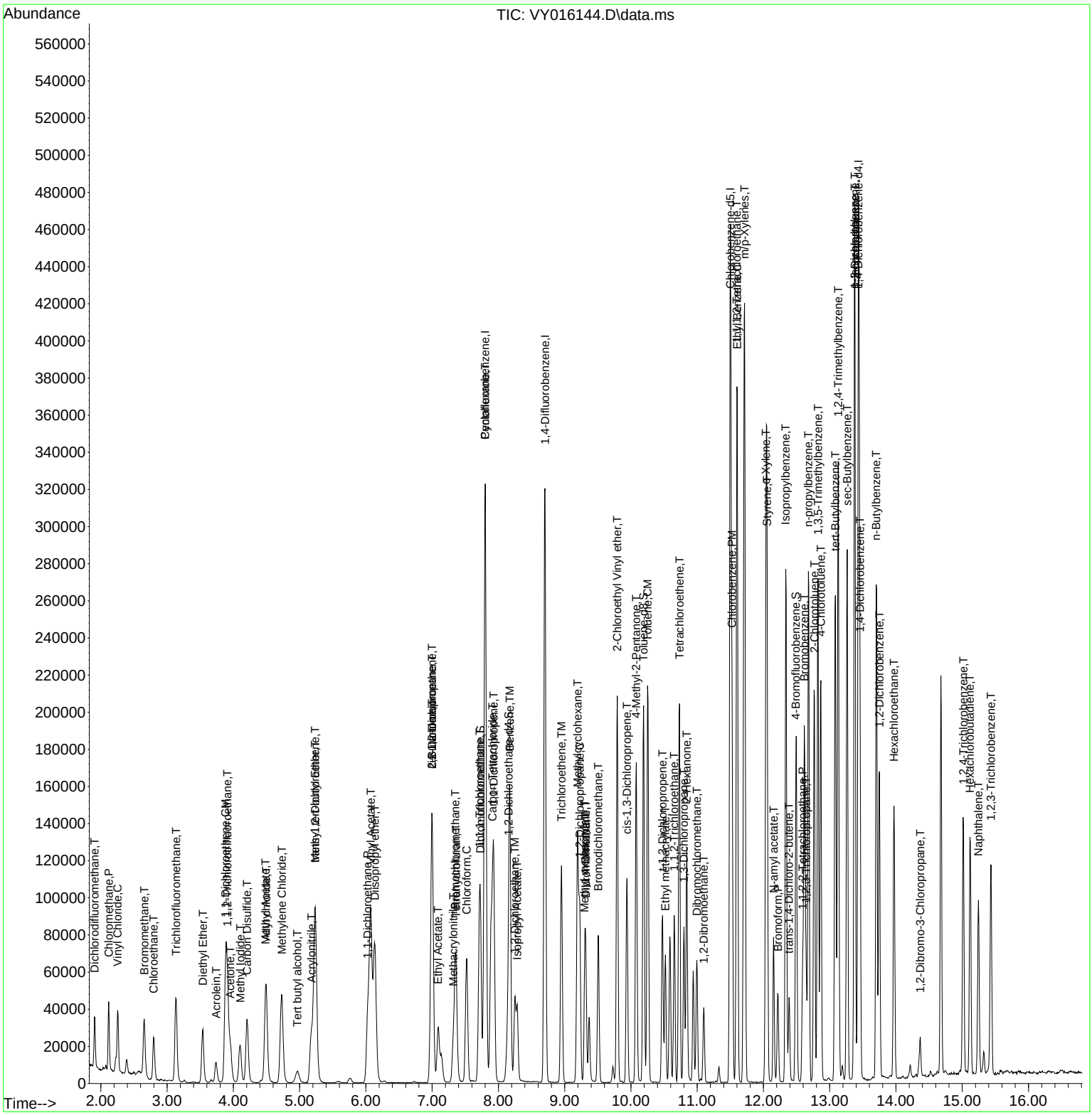
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016144.D
Acq On : 31 Oct 2023 13:12
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 01 03:16:19 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016145.D
Acq On : 31 Oct 2023 13:37
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

Quant Time: Nov 01 03:17:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.801 | 168 | 182918 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.697 | 114 | 281473 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.502 | 117 | 243306 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.434 | 152 | 115996 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.149 | 65 | 80300 | 46.915 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 93.820% | | | |
| 35) Dibromofluoromethane | 7.728 | 113 | 79726 | 47.511 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 95.020% | | | |
| 50) Toluene-d8 | 10.191 | 98 | 325213 | 48.881 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 97.760% | | | |
| 62) 4-Bromofluorobenzene | 12.489 | 95 | 104720 | 46.030 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 92.060% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.906 | 85 | 61334 | 52.565 | ug/l | 97 |
| 3) Chloromethane | 2.119 | 50 | 79652 | 49.305 | ug/l | 98 |
| 4) Vinyl Chloride | 2.253 | 62 | 85763 | 51.436 | ug/l | 95 |
| 5) Bromomethane | 2.656 | 94 | 55187 | 49.044 | ug/l | 99 |
| 6) Chloroethane | 2.796 | 64 | 58257 | 49.628 | ug/l | 92 |
| 7) Trichlorofluoromethane | 3.131 | 101 | 128466 | 51.035 | ug/l | 98 |
| 8) Diethyl Ether | 3.534 | 74 | 39490 | 47.333 | ug/l | 87 |
| 9) 1,1,2-Trichlorotrifluo... | 3.906 | 101 | 80063 | 50.488 | ug/l | 95 |
| 10) Methyl Iodide | 4.101 | 142 | 87188 | 49.444 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.960 | 59 | 25891 | 202.457 | ug/l # | 83 |
| 12) 1,1-Dichloroethene | 3.881 | 96 | 71262 | 49.235 | ug/l | 95 |
| 13) Acrolein | 3.735 | 56 | 25310 | 214.190 | ug/l | 99 |
| 14) Allyl chloride | 4.491 | 41 | 101772 | 49.158 | ug/l # | 94 |
| 15) Acrylonitrile | 5.174 | 53 | 82310 | 230.880 | ug/l | 98 |
| 16) Acetone | 3.954 | 43 | 62801 | 228.184 | ug/l | 100 |
| 17) Carbon Disulfide | 4.204 | 76 | 185648 | 51.375 | ug/l | 98 |
| 18) Methyl Acetate | 4.485 | 43 | 63014 | 45.779 | ug/l # | 89 |
| 19) Methyl tert-butyl Ether | 5.228 | 73 | 195903 | 47.583 | ug/l | 100 |
| 20) Methylene Chloride | 4.729 | 84 | 84034 | 48.158 | ug/l | 88 |
| 21) trans-1,2-Dichloroethene | 5.235 | 96 | 83683 | 49.635 | ug/l | 92 |
| 22) Diisopropyl ether | 6.131 | 45 | 241473 | 48.222 | ug/l | 89 |
| 23) Vinyl Acetate | 6.070 | 43 | 585392 | 238.101 | ug/l # | 94 |
| 24) 1,1-Dichloroethane | 6.033 | 63 | 145255 | 48.468 | ug/l | 96 |
| 25) 2-Butanone | 6.996 | 43 | 103566 | 219.317 | ug/l | 94 |
| 26) 2,2-Dichloropropane | 6.990 | 77 | 141922 | 50.096 | ug/l | 97 |
| 27) cis-1,2-Dichloroethene | 6.996 | 96 | 96673 | 48.724 | ug/l | 93 |
| 28) Bromochloromethane | 7.344 | 49 | 55510 | 49.498 | ug/l | 87 |
| 29) Tetrahydrofuran | 7.356 | 42 | 68645 | 231.897 | ug/l | 89 |
| 30) Chloroform | 7.515 | 83 | 159284 | 48.818 | ug/l | 96 |
| 31) Cyclohexane | 7.795 | 56 | 126235 | 47.977 | ug/l | 93 |
| 32) 1,1,1-Trichloroethane | 7.710 | 97 | 148608 | 49.664 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 7.929 | 75 | 121040 | 49.952 | ug/l | 98 |
| 37) Ethyl Acetate | 7.082 | 43 | 50782 | 47.053 | ug/l | 96 |
| 38) Carbon Tetrachloride | 7.911 | 117 | 124686 | 51.939 | ug/l | 97 |
| 39) Methylcyclohexane | 9.191 | 83 | 151607 | 52.416 | ug/l | 92 |
| 40) Benzene | 8.173 | 78 | 340565 | 48.957 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016145.D
Acq On : 31 Oct 2023 13:37
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

Quant Time: Nov 01 03:17:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.320 | 41 | 26669 | 42.572 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 8.246 | 62 | 93362 | 48.092 | ug/l | | 95 |
| 43) Isopropyl Acetate | 8.283 | 43 | 99528 | 46.622 | ug/l | # | 91 |
| 44) Trichloroethene | 8.953 | 130 | 101271 | 49.746 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.228 | 63 | 83359 | 49.812 | ug/l | | 96 |
| 46) Dibromomethane | 9.313 | 93 | 46308 | 48.781 | ug/l | | 96 |
| 47) Bromodichloromethane | 9.508 | 83 | 117828 | 48.851 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.301 | 41 | 46063 | 47.451 | ug/l | | 90 |
| 49) 1,4-Dioxane | 9.307 | 88 | 10413 | 878.561 | ug/l | # | 50 |
| 51) 4-Methyl-2-Pentanone | 10.081 | 43 | 253565 | 238.045 | ug/l | | 92 |
| 52) Toluene | 10.252 | 92 | 224891 | 49.890 | ug/l | | 94 |
| 53) t-1,3-Dichloropropene | 10.477 | 75 | 116250 | 48.280 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.935 | 75 | 136665 | 48.371 | ug/l | | 92 |
| 55) 1,1,2-Trichloroethane | 10.654 | 97 | 64149 | 48.039 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.520 | 69 | 84431 | 48.686 | ug/l | | 87 |
| 57) 1,3-Dichloropropane | 10.801 | 76 | 107688 | 47.371 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.789 | 63 | 198638 | 236.213 | ug/l | | 92 |
| 59) 2-Hexanone | 10.843 | 43 | 172783 | 236.709 | ug/l | | 90 |
| 60) Dibromochloromethane | 10.996 | 129 | 81161 | 48.447 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.099 | 107 | 61074 | 48.084 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.734 | 164 | 108339 | 50.060 | ug/l | | 96 |
| 65) Chlorobenzene | 11.526 | 112 | 239436 | 49.532 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.599 | 131 | 88691 | 49.536 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.605 | 91 | 438236 | 50.686 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.709 | 106 | 339813 | 101.711 | ug/l | | 94 |
| 69) o-Xylene | 12.038 | 106 | 159435 | 49.981 | ug/l | | 97 |
| 70) Styrene | 12.056 | 104 | 265561 | 50.078 | ug/l | | 97 |
| 71) Bromoform | 12.221 | 173 | 47560 | 47.883 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.337 | 105 | 436825 | 50.203 | ug/l | | 100 |
| 74) N-amyl acetate | 12.154 | 43 | 91547 | 48.417 | ug/l | # | 92 |
| 75) 1,1,2,2-Tetrachloroethane | 12.593 | 83 | 63688 | 45.998 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.642 | 75 | 57908m | 47.308 | ug/l | | |
| 77) Bromobenzene | 12.617 | 156 | 95161 | 48.299 | ug/l | | 95 |
| 78) n-propylbenzene | 12.678 | 91 | 518854 | 50.438 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.764 | 91 | 283035 | 49.330 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.825 | 105 | 352046 | 49.940 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.386 | 75 | 23783 | 47.208 | ug/l | | 94 |
| 82) 4-Chlorotoluene | 12.861 | 91 | 289175 | 49.082 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.087 | 119 | 319760 | 50.695 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.129 | 105 | 343967 | 49.312 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.264 | 105 | 466802 | 50.423 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.379 | 119 | 388486 | 50.632 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.373 | 146 | 190821 | 48.971 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.453 | 146 | 184192 | 47.827 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.709 | 91 | 356150 | 50.518 | ug/l | | 96 |
| 90) Hexachloroethane | 13.971 | 117 | 66649 | 50.407 | ug/l | | 92 |
| 91) 1,2-Dichlorobenzene | 13.751 | 146 | 162741 | 48.339 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.367 | 75 | 11474 | 46.305 | ug/l | | 91 |
| 93) 1,2,4-Trichlorobenzene | 15.013 | 180 | 102390 | 49.274 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.123 | 225 | 56591 | 49.838 | ug/l | | 98 |
| 95) Naphthalene | 15.245 | 128 | 189386 | 46.914 | ug/l | | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.434 | 180 | 85497 | 48.165 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016145.D
Acq On : 31 Oct 2023 13:37
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

Quant Time: Nov 01 03:17:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

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

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

ICAL Form

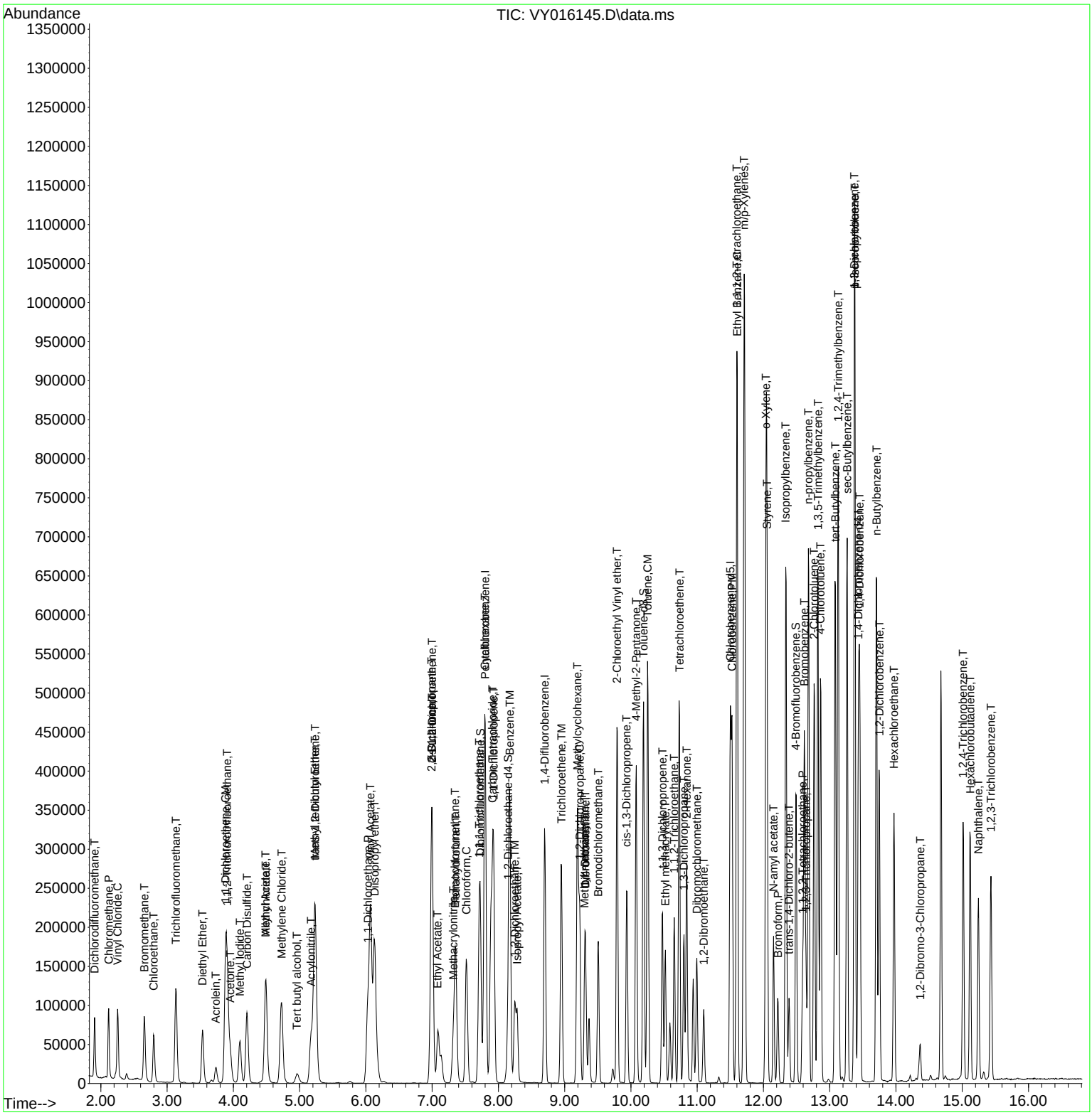
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016145.D
Acq On : 31 Oct 2023 13:37
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 01 03:17:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016146.D
Acq On : 31 Oct 2023 14:13
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

Quant Time: Nov 01 03:17:54 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.795 | 168 | 175317 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.697 | 114 | 274242 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.502 | 117 | 237247 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.434 | 152 | 111749 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.149 | 65 | 177148 | 107.984 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 215.960%# | | | |
| 35) Dibromofluoromethane | 7.728 | 113 | 175449 | 107.311 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 214.620%# | | | |
| 50) Toluene-d8 | 10.191 | 98 | 713832 | 110.121 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 220.240%# | | | |
| 62) 4-Bromofluorobenzene | 12.489 | 95 | 237786 | 107.276 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 214.560%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.906 | 85 | 121397 | 108.552 | ug/l | 98 |
| 3) Chloromethane | 2.119 | 50 | 158071 | 102.088 | ug/l | 99 |
| 4) Vinyl Chloride | 2.253 | 62 | 173414 | 108.513 | ug/l | 97 |
| 5) Bromomethane | 2.650 | 94 | 116831 | 108.327 | ug/l | 99 |
| 6) Chloroethane | 2.796 | 64 | 121274 | 107.791 | ug/l | 92 |
| 7) Trichlorofluoromethane | 3.131 | 101 | 257787 | 106.850 | ug/l | 98 |
| 8) Diethyl Ether | 3.534 | 74 | 86560 | 108.251 | ug/l | 84 |
| 9) 1,1,2-Trichlorotrifluo... | 3.905 | 101 | 160058 | 105.308 | ug/l | 97 |
| 10) Methyl Iodide | 4.100 | 142 | 188892 | 111.763 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.966 | 59 | 58438 | 476.773 | ug/l # | 80 |
| 12) 1,1-Dichloroethene | 3.881 | 96 | 146935 | 105.918 | ug/l | 91 |
| 13) Acrolein | 3.735 | 56 | 58665 | 530.303 | ug/l | 99 |
| 14) Allyl chloride | 4.485 | 41 | 211201 | 106.438 | ug/l # | 94 |
| 15) Acrylonitrile | 5.167 | 53 | 184309 | 539.403 | ug/l | 97 |
| 16) Acetone | 3.954 | 43 | 135701 | 540.354 | ug/l | 93 |
| 17) Carbon Disulfide | 4.204 | 76 | 381516 | 110.156 | ug/l | 98 |
| 18) Methyl Acetate | 4.485 | 43 | 141565 | 107.304 | ug/l # | 89 |
| 19) Methyl tert-butyl Ether | 5.228 | 73 | 434808 | 110.190 | ug/l | 99 |
| 20) Methylene Chloride | 4.722 | 84 | 169956 | 105.221 | ug/l | 90 |
| 21) trans-1,2-Dichloroethene | 5.228 | 96 | 172552 | 106.784 | ug/l | 95 |
| 22) Diisopropyl ether | 6.131 | 45 | 523643 | 109.106 | ug/l | 88 |
| 23) Vinyl Acetate | 6.070 | 43 | 1292646 | 548.563 | ug/l # | 93 |
| 24) 1,1-Dichloroethane | 6.027 | 63 | 310048 | 107.941 | ug/l | 97 |
| 25) 2-Butanone | 6.990 | 43 | 231699 | 511.932 | ug/l | 91 |
| 26) 2,2-Dichloropropane | 6.990 | 77 | 294345 | 108.402 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 6.996 | 96 | 204589 | 107.585 | ug/l | 93 |
| 28) Bromochloromethane | 7.344 | 49 | 109213 | 101.606 | ug/l | 88 |
| 29) Tetrahydrofuran | 7.356 | 42 | 153407 | 540.709 | ug/l | 89 |
| 30) Chloroform | 7.515 | 83 | 331809 | 106.103 | ug/l | 98 |
| 31) Cyclohexane | 7.795 | 56 | 251003 | 99.532 | ug/l | 89 |
| 32) 1,1,1-Trichloroethane | 7.710 | 97 | 304527 | 106.183 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 7.929 | 75 | 249408 | 105.643 | ug/l | 99 |
| 37) Ethyl Acetate | 7.082 | 43 | 112550 | 107.035 | ug/l | 95 |
| 38) Carbon Tetrachloride | 7.911 | 117 | 262069 | 112.046 | ug/l | 98 |
| 39) Methylcyclohexane | 9.191 | 83 | 304875 | 108.186 | ug/l | 94 |
| 40) Benzene | 8.167 | 78 | 717783 | 105.903 | ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016146.D
Acq On : 31 Oct 2023 14:13
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

Quant Time: Nov 01 03:17:54 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.319 | 41 | 62108 | 101.757 ug/l | | 91 |
| 42) 1,2-Dichloroethane | 8.246 | 62 | 199540 | 105.496 ug/l | | 94 |
| 43) Isopropyl Acetate | 8.283 | 43 | 227788 | 109.515 ug/l | | 93 |
| 44) Trichloroethene | 8.947 | 130 | 209942 | 105.847 ug/l | | 97 |
| 45) 1,2-Dichloropropane | 9.228 | 63 | 176990 | 108.551 ug/l | | 97 |
| 46) Dibromomethane | 9.313 | 93 | 99397 | 107.465 ug/l | | 97 |
| 47) Bromodichloromethane | 9.508 | 83 | 255551 | 108.744 ug/l | | 98 |
| 48) Methyl methacrylate | 9.301 | 41 | 104898 | 110.908 ug/l | | 89 |
| 49) 1,4-Dioxane | 9.307 | 88 | 22865 | 2163.669 ug/l | # | 71 |
| 51) 4-Methyl-2-Pentanone | 10.081 | 43 | 568017 | 547.310 ug/l | | 91 |
| 52) Toluene | 10.252 | 92 | 471864 | 107.438 ug/l | | 95 |
| 53) t-1,3-Dichloropropene | 10.477 | 75 | 257709 | 109.852 ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.941 | 75 | 299726 | 108.882 ug/l | | 90 |
| 55) 1,1,2-Trichloroethane | 10.654 | 97 | 139469 | 107.198 ug/l | | 96 |
| 56) Ethyl methacrylate | 10.520 | 69 | 191322 | 113.231 ug/l | | 87 |
| 57) 1,3-Dichloropropane | 10.801 | 76 | 236159 | 106.624 ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.788 | 63 | 435026 | 530.956 ug/l | | 92 |
| 59) 2-Hexanone | 10.843 | 43 | 389863 | 548.186 ug/l | | 89 |
| 60) Dibromochloromethane | 10.996 | 129 | 176482 | 108.123 ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.099 | 107 | 132810 | 107.320 ug/l | | 100 |
| 64) Tetrachloroethene | 10.727 | 164 | 217444 | 103.040 ug/l | | 98 |
| 65) Chlorobenzene | 11.526 | 112 | 503663 | 106.854 ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.599 | 131 | 189668 | 108.640 ug/l | | 99 |
| 67) Ethyl Benzene | 11.605 | 91 | 919035 | 109.010 ug/l | | 97 |
| 68) m/p-Xylenes | 11.715 | 106 | 709967 | 217.931 ug/l | | 94 |
| 69) o-Xylene | 12.038 | 106 | 339632 | 109.190 ug/l | | 96 |
| 70) Styrene | 12.056 | 104 | 566005 | 109.460 ug/l | | 97 |
| 71) Bromoform | 12.215 | 173 | 107008 | 110.486 ug/l | # | 99 |
| 73) Isopropylbenzene | 12.337 | 105 | 904020 | 107.845 ug/l | | 100 |
| 74) N-amyl acetate | 12.154 | 43 | 205226 | 112.663 ug/l | # | 90 |
| 75) 1,1,2,2-Tetrachloroethane | 12.593 | 83 | 144097 | 108.029 ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.642 | 75 | 106071m | 89.948 ug/l | | |
| 77) Bromobenzene | 12.617 | 156 | 204141 | 107.551 ug/l | | 95 |
| 78) n-propylbenzene | 12.684 | 91 | 1061894 | 107.149 ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.770 | 91 | 590456 | 106.822 ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.825 | 105 | 730138 | 107.511 ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.386 | 75 | 54406 | 112.096 ug/l | | 92 |
| 82) 4-Chlorotoluene | 12.867 | 91 | 606764 | 106.900 ug/l | | 98 |
| 83) tert-Butylbenzene | 13.087 | 119 | 654330 | 107.681 ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.129 | 105 | 715166 | 106.424 ug/l | | 98 |
| 85) sec-Butylbenzene | 13.263 | 105 | 951863 | 106.727 ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.379 | 119 | 790832 | 106.988 ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.379 | 146 | 399893 | 106.527 ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.459 | 146 | 390557 | 105.265 ug/l | | 99 |
| 89) n-Butylbenzene | 13.702 | 91 | 711467 | 104.753 ug/l | | 96 |
| 90) Hexachloroethane | 13.971 | 117 | 144163 | 113.174 ug/l | | 92 |
| 91) 1,2-Dichlorobenzene | 13.751 | 146 | 345148 | 106.415 ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.367 | 75 | 24233 | 101.513 ug/l | | 87 |
| 93) 1,2,4-Trichlorobenzene | 15.013 | 180 | 202655 | 101.232 ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.123 | 225 | 105534 | 96.473 ug/l | | 99 |
| 95) Naphthalene | 15.245 | 128 | 404853 | 104.101 ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.434 | 180 | 173183 | 101.272 ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016146.D
Acq On : 31 Oct 2023 14:13
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

Quant Time: Nov 01 03:17:54 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

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

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

ICAL Form

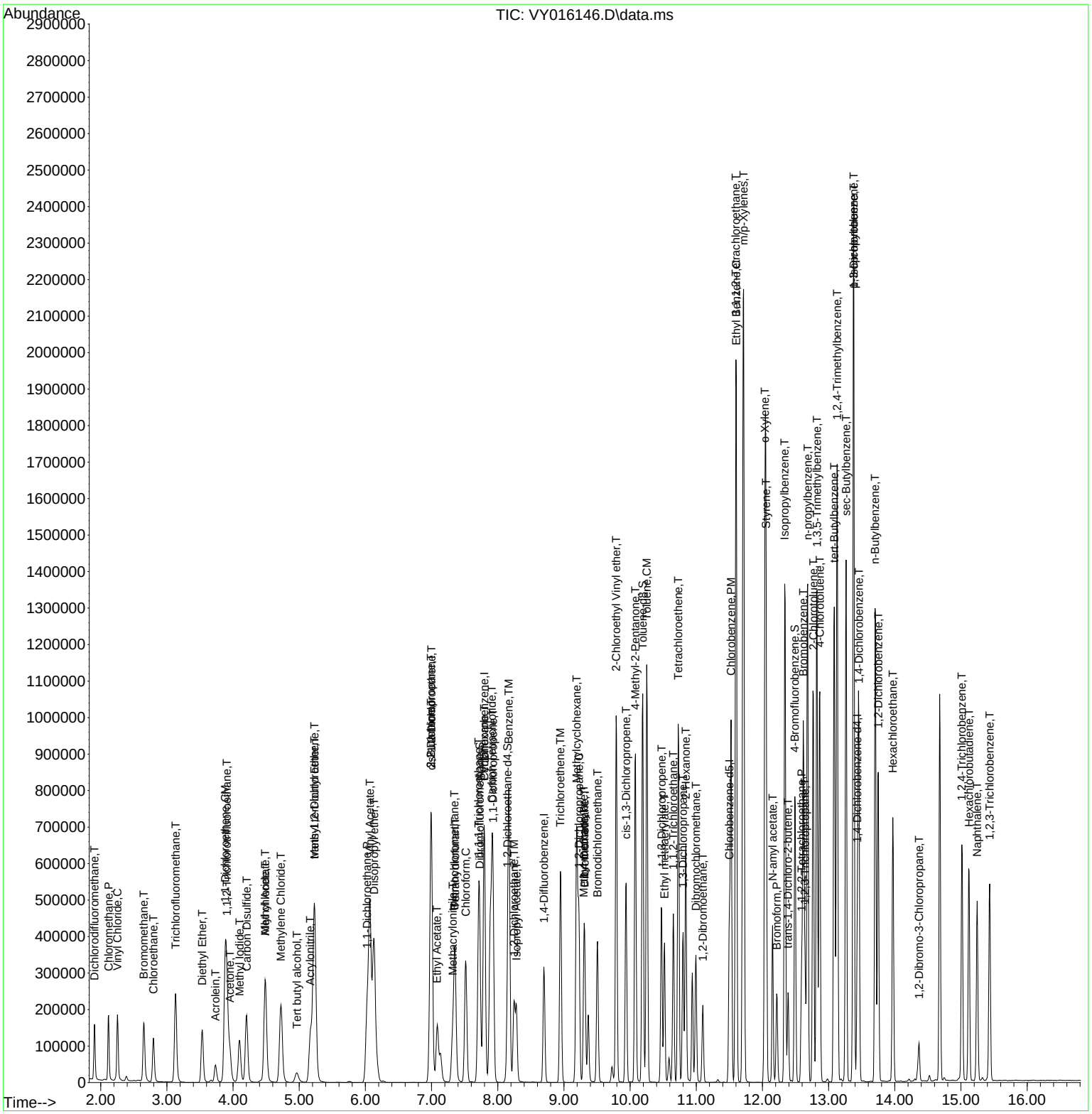
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016146.D
Acq On : 31 Oct 2023 14:13
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 01 03:17:54 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016147.D
Acq On : 31 Oct 2023 14:40
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

Quant Time: Nov 01 03:18:44 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.801 | 168 | 188618 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.697 | 114 | 297337 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.502 | 117 | 256642 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.434 | 152 | 119898 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.155 | 65 | 263503 | 149.297 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 298.600%# | | | | |
| 35) Dibromofluoromethane | 7.728 | 113 | 267682 | 151.008 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 302.020%# | | | | |
| 50) Toluene-d8 | 10.191 | 98 | 1074601 | 152.899 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 305.800%# | | | | |
| 62) 4-Bromofluorobenzene | 12.489 | 95 | 357661 | 148.824 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 297.640%# | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.906 | 85 | 182384 | 151.585 | ug/l | | 97 |
| 3) Chloromethane | 2.119 | 50 | 240613 | 144.439 | ug/l | | 99 |
| 4) Vinyl Chloride | 2.260 | 62 | 262561 | 152.711 | ug/l | | 97 |
| 5) Bromomethane | 2.650 | 94 | 182856 | 157.590 | ug/l | | 99 |
| 6) Chloroethane | 2.796 | 64 | 185702 | 153.416 | ug/l | | 98 |
| 7) Trichlorofluoromethane | 3.131 | 101 | 394333 | 151.920 | ug/l | | 99 |
| 8) Diethyl Ether | 3.540 | 74 | 131167 | 152.468 | ug/l | | 85 |
| 9) 1,1,2-Trichlorotrifluo... | 3.906 | 101 | 243716 | 149.042 | ug/l | | 96 |
| 10) Methyl Iodide | 4.101 | 142 | 286263 | 157.432 | ug/l | | 97 |
| 11) Tert butyl alcohol | 4.972 | 59 | 88457 | 670.795 | ug/l | # | 81 |
| 12) 1,1-Dichloroethene | 3.881 | 96 | 222674 | 149.196 | ug/l | | 91 |
| 13) Acrolein | 3.735 | 56 | 87654 | 739.850 | ug/l | | 98 |
| 14) Allyl chloride | 4.491 | 41 | 323352 | 151.466 | ug/l | # | 96 |
| 15) Acrylonitrile | 5.174 | 53 | 276999 | 753.505 | ug/l | | 99 |
| 16) Acetone | 3.960 | 43 | 195372 | 730.086 | ug/l | | 94 |
| 17) Carbon Disulfide | 4.204 | 76 | 580351 | 155.750 | ug/l | | 99 |
| 18) Methyl Acetate | 4.491 | 43 | 214890 | 151.397 | ug/l | # | 90 |
| 19) Methyl tert-butyl Ether | 5.235 | 73 | 657441 | 154.861 | ug/l | | 99 |
| 20) Methylene Chloride | 4.729 | 84 | 253575 | 147.175 | ug/l | | 90 |
| 21) trans-1,2-Dichloroethene | 5.235 | 96 | 265355 | 152.635 | ug/l | | 96 |
| 22) Diisopropyl ether | 6.131 | 45 | 800495 | 155.028 | ug/l | | 89 |
| 23) Vinyl Acetate | 6.070 | 43 | 1973801 | 778.558 | ug/l | # | 93 |
| 24) 1,1-Dichloroethane | 6.033 | 63 | 471931 | 152.713 | ug/l | | 96 |
| 25) 2-Butanone | 6.996 | 43 | 344933 | 708.376 | ug/l | # | 89 |
| 26) 2,2-Dichloropropane | 6.996 | 77 | 451624 | 154.596 | ug/l | | 97 |
| 27) cis-1,2-Dichloroethene | 6.996 | 96 | 314227 | 153.587 | ug/l | | 93 |
| 28) Bromochloromethane | 7.344 | 49 | 168919 | 146.071 | ug/l | | 86 |
| 29) Tetrahydrofuran | 7.362 | 42 | 233647 | 765.455 | ug/l | | 89 |
| 30) Chloroform | 7.521 | 83 | 507084 | 150.717 | ug/l | | 96 |
| 31) Cyclohexane | 7.795 | 56 | 385935 | 142.246 | ug/l | | 90 |
| 32) 1,1,1-Trichloroethane | 7.716 | 97 | 466339 | 151.137 | ug/l | | 97 |
| 36) 1,1-Dichloropropene | 7.929 | 75 | 380347 | 148.592 | ug/l | | 99 |
| 37) Ethyl Acetate | 7.088 | 43 | 172620 | 151.411 | ug/l | # | 96 |
| 38) Carbon Tetrachloride | 7.911 | 117 | 408139 | 160.943 | ug/l | | 99 |
| 39) Methylcyclohexane | 9.197 | 83 | 463180 | 151.594 | ug/l | | 91 |
| 40) Benzene | 8.173 | 78 | 1088830 | 148.169 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016147.D
Acq On : 31 Oct 2023 14:40
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

Quant Time: Nov 01 03:18:44 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.320 | 41 | 103447 | 156.321 ug/l | # | 87 |
| 42) 1,2-Dichloroethane | 8.246 | 62 | 305279 | 148.864 ug/l | | 94 |
| 43) Isopropyl Acetate | 8.283 | 43 | 342084 | 151.692 ug/l | # | 92 |
| 44) Trichloroethene | 8.947 | 130 | 317407 | 147.598 ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.228 | 63 | 268620 | 151.953 ug/l | | 98 |
| 46) Dibromomethane | 9.313 | 93 | 150457 | 150.035 ug/l | | 98 |
| 47) Bromodichloromethane | 9.508 | 83 | 388839 | 152.610 ug/l | | 96 |
| 48) Methyl methacrylate | 9.301 | 41 | 157471 | 153.561 ug/l | | 89 |
| 49) 1,4-Dioxane | 9.307 | 88 | 31772 | 2814.248 ug/l | # | 47 |
| 51) 4-Methyl-2-Pentanone | 10.081 | 43 | 848356 | 753.938 ug/l | | 91 |
| 52) Toluene | 10.252 | 92 | 715338 | 150.223 ug/l | | 94 |
| 53) t-1,3-Dichloropropene | 10.471 | 75 | 398940 | 156.846 ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.935 | 75 | 458417 | 153.595 ug/l | | 91 |
| 55) 1,1,2-Trichloroethane | 10.654 | 97 | 210689 | 149.360 ug/l | | 97 |
| 56) Ethyl methacrylate | 10.520 | 69 | 288678 | 157.580 ug/l | # | 86 |
| 57) 1,3-Dichloropropane | 10.801 | 76 | 357048 | 148.683 ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.789 | 63 | 672850 | 757.437 ug/l | | 93 |
| 59) 2-Hexanone | 10.837 | 43 | 574118 | 744.564 ug/l | | 89 |
| 60) Dibromochloromethane | 10.996 | 129 | 270396 | 152.793 ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.099 | 107 | 202077 | 150.609 ug/l | | 99 |
| 64) Tetrachloroethene | 10.727 | 164 | 319944 | 140.154 ug/l | | 97 |
| 65) Chlorobenzene | 11.526 | 112 | 767178 | 150.460 ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.599 | 131 | 293813 | 155.574 ug/l | | 99 |
| 67) Ethyl Benzene | 11.599 | 91 | 1395957 | 153.067 ug/l | | 99 |
| 68) m/p-Xylenes | 11.709 | 106 | 1077705 | 305.811 ug/l | | 95 |
| 69) o-Xylene | 12.038 | 106 | 520204 | 154.604 ug/l | | 96 |
| 70) Styrene | 12.050 | 104 | 869218 | 155.395 ug/l | | 96 |
| 71) Bromoform | 12.215 | 173 | 162138 | 154.756 ug/l | # | 100 |
| 73) Isopropylbenzene | 12.337 | 105 | 1372338 | 152.587 ug/l | | 99 |
| 74) N-amyl acetate | 12.148 | 43 | 307463 | 157.316 ug/l | # | 90 |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83 | 221788 | 154.972 ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.642 | 75 | 146320m | 115.647 ug/l | | |
| 77) Bromobenzene | 12.617 | 156 | 311899 | 153.154 ug/l | | 95 |
| 78) n-propylbenzene | 12.678 | 91 | 1593376 | 149.850 ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.764 | 91 | 894090 | 150.760 ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.819 | 105 | 1091309 | 149.771 ug/l | | 97 |
| 81) trans-1,4-Dichloro-2-b... | 12.386 | 75 | 82798 | 159.000 ug/l | | 92 |
| 82) 4-Chlorotoluene | 12.861 | 91 | 910958 | 149.585 ug/l | | 98 |
| 83) tert-Butylbenzene | 13.081 | 119 | 963812 | 147.831 ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.130 | 105 | 1066308 | 147.892 ug/l | | 97 |
| 85) sec-Butylbenzene | 13.264 | 105 | 1402027 | 146.516 ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.373 | 119 | 1155913 | 145.750 ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.373 | 146 | 595725 | 147.909 ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.453 | 146 | 578291 | 145.271 ug/l | | 99 |
| 89) n-Butylbenzene | 13.703 | 91 | 1032562 | 141.696 ug/l | | 96 |
| 90) Hexachloroethane | 13.965 | 117 | 215083 | 157.373 ug/l | | 93 |
| 91) 1,2-Dichlorobenzene | 13.745 | 146 | 510767 | 146.775 ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75 | 36377 | 142.028 ug/l | | 89 |
| 93) 1,2,4-Trichlorobenzene | 15.013 | 180 | 290169 | 135.097 ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.117 | 225 | 150279 | 128.039 ug/l | | 98 |
| 95) Naphthalene | 15.239 | 128 | 585493 | 140.317 ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.428 | 180 | 244144 | 133.064 ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016147.D
Acq On : 31 Oct 2023 14:40
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

Quant Time: Nov 01 03:18:44 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

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

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

ICAL Form

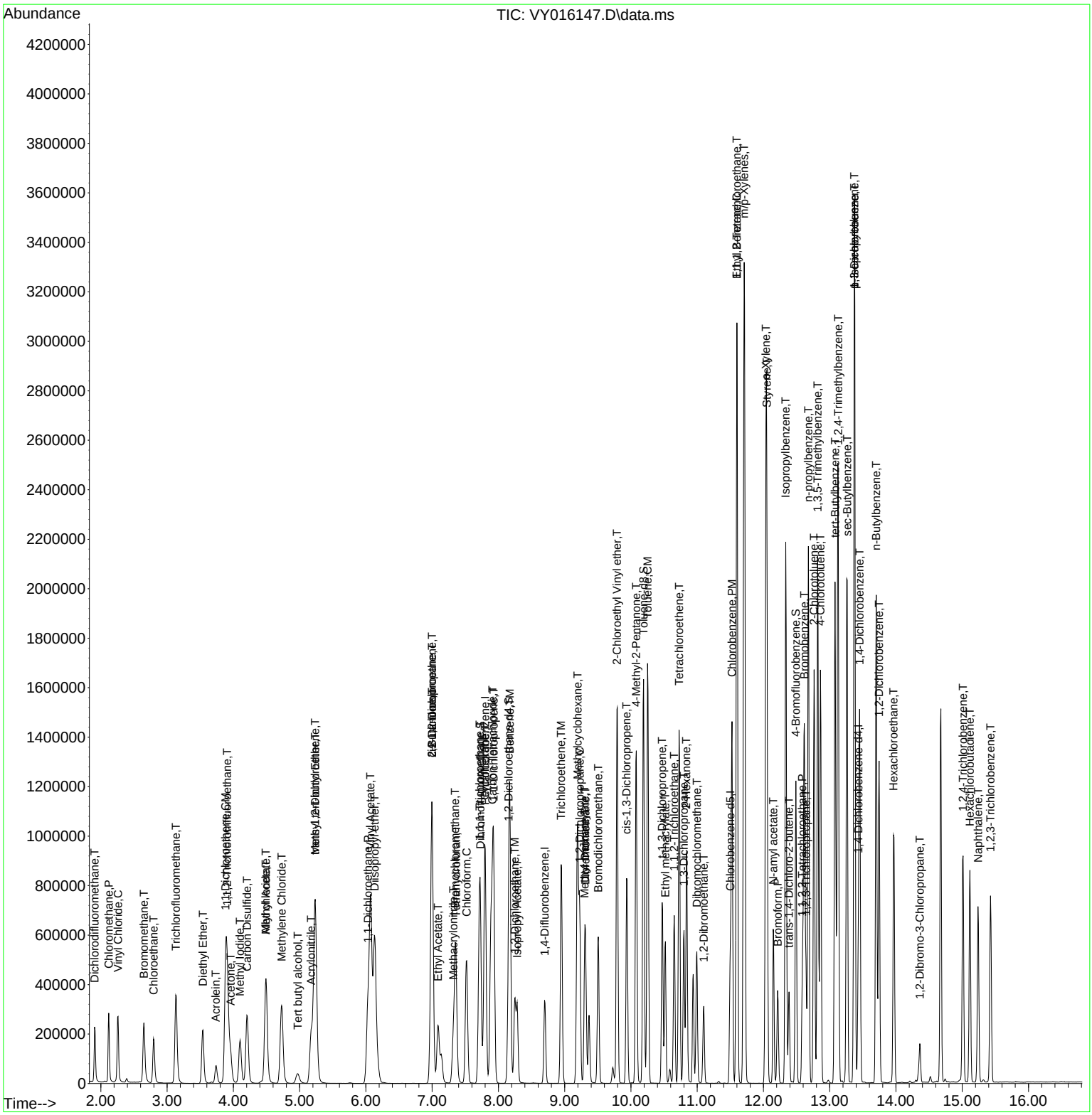
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016147.D
Acq On : 31 Oct 2023 14:40
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 01 03:18:44 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:01:33 2023
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016148.D
Acq On : 31 Oct 2023 15:03
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY103123

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

Quant Time: Nov 01 03:36:39 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.801 | 168 | 182471 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.697 | 114 | 286257 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.496 | 117 | 249025 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.434 | 152 | 116252 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.149 | 65 | 89649 | 52.505 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 105.000% | | | |
| 35) Dibromofluoromethane | 7.728 | 113 | 88174 | 51.667 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 103.340% | | | |
| 50) Toluene-d8 | 10.191 | 98 | 357959 | 52.904 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 105.800% | | | |
| 62) 4-Bromofluorobenzene | 12.489 | 95 | 119022 | 51.442 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 102.880% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.906 | 85 | 59343 | 50.983 | ug/l | 97 |
| 3) Chloromethane | 2.119 | 50 | 76978 | 47.766 | ug/l | 99 |
| 4) Vinyl Chloride | 2.253 | 62 | 85171 | 51.206 | ug/l | 96 |
| 5) Bromomethane | 2.656 | 94 | 60143 | 53.579 | ug/l | 98 |
| 6) Chloroethane | 2.802 | 64 | 58826 | 50.236 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.137 | 101 | 126533 | 50.390 | ug/l | 98 |
| 8) Diethyl Ether | 3.534 | 74 | 43172 | 51.874 | ug/l | 85 |
| 9) 1,1,2-Trichlorotrifluo... | 3.912 | 101 | 79284 | 50.119 | ug/l | 96 |
| 10) Methyl Iodide | 4.100 | 142 | 94546 | 53.748 | ug/l | 96 |
| 11) Tert butyl alcohol | 4.966 | 59 | 31404 | 246.168 | ug/l # | 80 |
| 12) 1,1-Dichloroethene | 3.887 | 96 | 72808 | 50.426 | ug/l | 89 |
| 13) Acrolein | 3.741 | 56 | 30289 | 258.687 | ug/l | 98 |
| 14) Allyl chloride | 4.491 | 41 | 106958 | 51.790 | ug/l | 96 |
| 15) Acrylonitrile | 5.173 | 53 | 94024 | 264.384 | ug/l | 99 |
| 16) Acetone | 3.954 | 43 | 70898 | 260.956 | ug/l | 91 |
| 17) Carbon Disulfide | 4.210 | 76 | 190503 | 52.848 | ug/l | 99 |
| 18) Methyl Acetate | 4.491 | 43 | 72942 | 53.121 | ug/l | 92 |
| 19) Methyl tert-butyl Ether | 5.234 | 73 | 215799 | 52.544 | ug/l | 98 |
| 20) Methylene Chloride | 4.728 | 84 | 87568 | 50.451 | ug/l | 92 |
| 21) trans-1,2-Dichloroethene | 5.234 | 96 | 86036 | 51.156 | ug/l | 93 |
| 22) Diisopropyl ether | 6.131 | 45 | 258831 | 51.815 | ug/l | 88 |
| 23) Vinyl Acetate | 6.070 | 43 | 649273 | 264.731 | ug/l | 95 |
| 24) 1,1-Dichloroethane | 6.027 | 63 | 152356 | 50.962 | ug/l | 99 |
| 25) 2-Butanone | 6.996 | 43 | 119994 | 254.729 | ug/l | 91 |
| 26) 2,2-Dichloropropane | 6.996 | 77 | 144843 | 51.252 | ug/l | 97 |
| 27) cis-1,2-Dichloroethene | 6.996 | 96 | 101490 | 51.277 | ug/l | 93 |
| 28) Bromochloromethane | 7.344 | 49 | 54309 | 48.545 | ug/l | 90 |
| 29) Tetrahydrofuran | 7.356 | 42 | 78391 | 265.470 | ug/l | 89 |
| 30) Chloroform | 7.521 | 83 | 166552 | 51.171 | ug/l | 97 |
| 31) Cyclohexane | 7.795 | 56 | 126881 | 48.340 | ug/l | 91 |
| 32) 1,1,1-Trichloroethane | 7.710 | 97 | 151561 | 50.775 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 7.929 | 75 | 122592 | 49.747 | ug/l | 98 |
| 37) Ethyl Acetate | 7.082 | 43 | 56600 | 51.567 | ug/l # | 95 |
| 38) Carbon Tetrachloride | 7.911 | 117 | 128652 | 52.696 | ug/l | 97 |
| 39) Methylcyclohexane | 9.191 | 83 | 149472 | 50.814 | ug/l | 92 |
| 40) Benzene | 8.173 | 78 | 356775 | 50.430 | ug/l | 100 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016148.D
Acq On : 31 Oct 2023 15:03
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 01 03:36:39 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY103123

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.326 | 41 | 30531 | 47.922 | ug/l | | 93 |
| 42) 1,2-Dichloroethane | 8.246 | 62 | 100426 | 50.866 | ug/l | | 94 |
| 43) Isopropyl Acetate | 8.283 | 43 | 114233 | 52.615 | ug/l | # | 92 |
| 44) Trichloroethene | 8.947 | 130 | 104771 | 50.606 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.222 | 63 | 87773 | 51.573 | ug/l | | 97 |
| 46) Dibromomethane | 9.313 | 93 | 49506 | 51.278 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.502 | 83 | 126849 | 51.712 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.301 | 41 | 51941 | 52.612 | ug/l | | 89 |
| 49) 1,4-Dioxane | 9.307 | 88 | 11861 | 1036.986 | ug/l | # | 51 |
| 51) 4-Methyl-2-Pentanone | 10.075 | 43 | 289057 | 266.829 | ug/l | | 91 |
| 52) Toluene | 10.252 | 92 | 233910 | 51.023 | ug/l | | 95 |
| 53) t-1,3-Dichloropropene | 10.471 | 75 | 128277 | 52.385 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.935 | 75 | 147002 | 51.160 | ug/l | | 91 |
| 55) 1,1,2-Trichloroethane | 10.654 | 97 | 69528 | 51.197 | ug/l | | 95 |
| 56) Ethyl methacrylate | 10.514 | 69 | 95879 | 54.363 | ug/l | # | 85 |
| 57) 1,3-Dichloropropane | 10.794 | 76 | 117093 | 50.648 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.788 | 63 | 216080 | 252.660 | ug/l | | 92 |
| 59) 2-Hexanone | 10.837 | 43 | 195672 | 263.586 | ug/l | | 90 |
| 60) Dibromochloromethane | 10.990 | 129 | 87851 | 51.564 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.099 | 107 | 66679 | 51.620 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.727 | 164 | 108671 | 49.060 | ug/l | | 97 |
| 65) Chlorobenzene | 11.526 | 112 | 251939 | 50.922 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.599 | 131 | 93000 | 50.750 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.599 | 91 | 456357 | 51.570 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.709 | 106 | 351122 | 102.682 | ug/l | | 95 |
| 69) o-Xylene | 12.038 | 106 | 166263 | 50.925 | ug/l | | 97 |
| 70) Styrene | 12.050 | 104 | 278875 | 51.381 | ug/l | | 97 |
| 71) Bromoform | 12.215 | 173 | 52901 | 52.037 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.337 | 105 | 448210 | 51.398 | ug/l | | 99 |
| 74) N-amyl acetate | 12.148 | 43 | 103004 | 54.356 | ug/l | # | 91 |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83 | 73253 | 52.790 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.636 | 75 | 57159m | 52.212 | ug/l | | |
| 77) Bromobenzene | 12.617 | 156 | 103025 | 52.176 | ug/l | | 94 |
| 78) n-propylbenzene | 12.678 | 91 | 530827 | 51.488 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.764 | 91 | 293081 | 50.969 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.818 | 105 | 362542 | 51.316 | ug/l | | 97 |
| 81) trans-1,4-Dichloro-2-b... | 12.386 | 75 | 27266 | 54.002 | ug/l | | 92 |
| 82) 4-Chlorotoluene | 12.861 | 91 | 305760 | 51.782 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.081 | 119 | 325141 | 51.435 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.123 | 105 | 357942 | 51.202 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.257 | 105 | 478589 | 51.583 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.373 | 119 | 399234 | 51.918 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.373 | 146 | 200314 | 51.295 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.452 | 146 | 195008 | 50.524 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.702 | 91 | 362078 | 51.245 | ug/l | | 96 |
| 90) Hexachloroethane | 13.965 | 117 | 69038 | 52.098 | ug/l | | 93 |
| 91) 1,2-Dichlorobenzene | 13.745 | 146 | 173063 | 51.292 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75 | 12152 | 48.933 | ug/l | | 88 |
| 93) 1,2,4-Trichlorobenzene | 15.013 | 180 | 108085 | 51.900 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.117 | 225 | 57739 | 50.737 | ug/l | | 97 |
| 95) Naphthalene | 15.239 | 128 | 210866 | 52.120 | ug/l | | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.428 | 180 | 92323 | 51.896 | ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016148.D
Acq On : 31 Oct 2023 15:03
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY103123

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

Quant Time: Nov 01 03:36:39 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration

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

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

ICAL Form

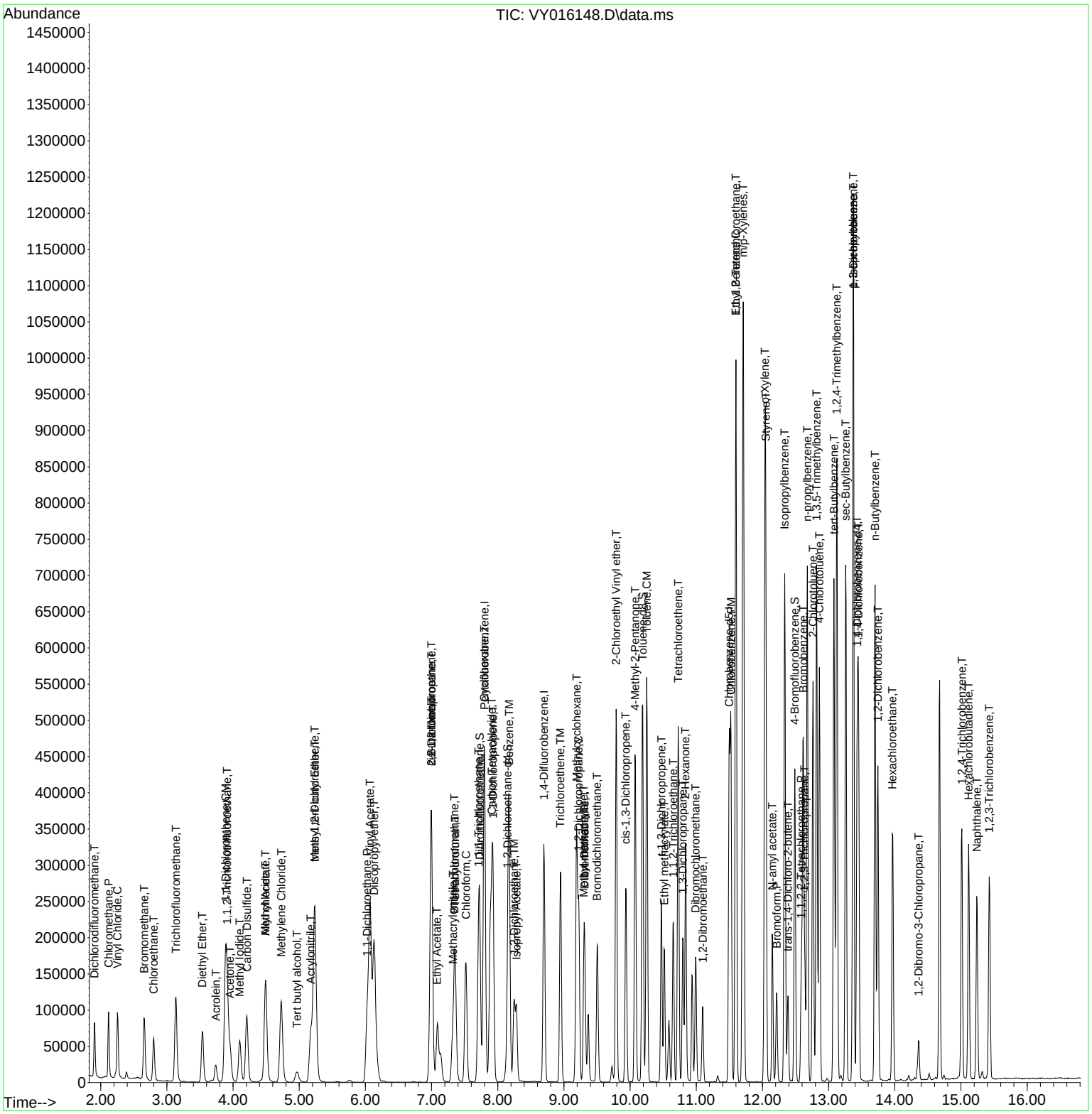
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016148.D
Acq On : 31 Oct 2023 15:03
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 01 03:36:39 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY103123

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



# Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016148.D
Acq On : 31 Oct 2023 15:03
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY103123

Quant Time: Nov 01 03:36:39 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
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 | 100 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.319 | 0.325 | -1.9 | 97 | 0.00 |
| 3 | P | Chloromethane | 0.442 | 0.422 | 4.5 | 97 | 0.00 |
| 4 | C | Vinyl Chloride | 0.456 | 0.467 | -2.4# | 99 | 0.00 |
| 5 | T | Bromomethane | 0.308 | 0.330 | -7.1 | 109 | 0.00 |
| 6 | T | Chloroethane | 0.321 | 0.322 | -0.3 | 101 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.688 | 0.693 | -0.7 | 98 | 0.00 |
| 8 | T | Diethyl Ether | 0.228 | 0.237 | -3.9 | 109 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.433 | 0.435 | -0.5 | 99 | 0.00 |
| 10 | T | Methyl Iodide | 0.482 | 0.518 | -7.5 | 108 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.035 | 0.034 | 2.9 | 121 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.396 | 0.399 | -0.8# | 102 | 0.00 |
| 13 | T | Acrolein | 0.035 | 0.033 | 5.7 | 120 | 0.00 |
| 14 | T | Allyl chloride | 0.566 | 0.586 | -3.5 | 105 | 0.00 |
| 15 | T | Acrylonitrile | 0.097 | 0.103 | -6.2 | 114 | 0.00 |
| 16 | T | Acetone | 0.086 | 0.078 | 9.3 | 113 | 0.00 |
| 17 | T | Carbon Disulfide | 0.988 | 1.044 | -5.7 | 103 | 0.00 |
| 18 | T | Methyl Acetate | 0.376 | 0.400 | -6.4 | 116 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.125 | 1.183 | -5.2 | 110 | 0.00 |
| 20 | T | Methylene Chloride | 0.533 | 0.480 | 9.9 | 104 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.461 | 0.472 | -2.4 | 103 | 0.00 |
| 22 | T | Diisopropyl ether | 1.369 | 1.418 | -3.6 | 107 | 0.00 |
| 23 | T | Vinyl Acetate | 0.672 | 0.712 | -6.0 | 111 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.819 | 0.835 | -2.0 | 105 | 0.00 |
| 25 | T | 2-Butanone | 0.129 | 0.132 | -2.3 | 116 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.774 | 0.794 | -2.6 | 102 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.542 | 0.556 | -2.6 | 105 | 0.00 |
| 28 | T | Bromochloromethane | 0.307 | 0.298 | 2.9 | 98 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.081 | 0.086 | -6.2 | 114 | 0.00 |
| 30 | C | Chloroform | 0.892 | 0.913 | -2.4# | 105 | 0.00 |
| 31 | T | Cyclohexane | 0.719 | 0.695 | 3.3 | 101 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.818 | 0.831 | -1.6 | 102 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.468 | 0.491 | -4.9 | 112 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.298 | 0.308 | -3.4 | 111 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.430 | 0.428 | 0.5 | 101 | 0.00 |
| 37 | T | Ethyl Acetate | 0.192 | 0.198 | -3.1 | 111 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.426 | 0.449 | -5.4 | 103 | 0.00 |
| 39 | T | Methylcyclohexane | 0.514 | 0.522 | -1.6 | 99 | 0.00 |
| 40 | TM | Benzene | 1.236 | 1.246 | -0.8 | 105 | 0.00 |
| 41 | T | Methacrylonitrile | 0.111 | 0.107 | 3.6 | 114 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.345 | 0.351 | -1.7 | 108 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.379 | 0.399 | -5.3 | 115 | 0.00 |
| 44 | TM | Trichloroethene | 0.362 | 0.366 | -1.1 | 103 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.297 | 0.307 | -3.4# | 105 | 0.00 |
| 46 | T | Dibromomethane | 0.169 | 0.173 | -2.4 | 107 | 0.00 |
| 47 | T | Bromodichloromethane | 0.428 | 0.443 | -3.5 | 108 | 0.00 |
| 48 | T | Methyl methacrylate | 0.172 | 0.181 | -5.2 | 113 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016148.D
Acq On : 31 Oct 2023 15:03
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY103123

Quant Time: Nov 01 03:36:39 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
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 | 0.002 | 0.002 | 0.0 | 114 | 0.00 |
| 50 | S | Toluene-d8 | 1.182 | 1.250 | -5.8 | 110 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.189 | 0.202 | -6.9 | 114 | 0.00 |
| 52 | CM | Toluene | 0.801 | 0.817 | -2.0# | 104 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.428 | 0.448 | -4.7 | 110 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.502 | 0.514 | -2.4 | 108 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.237 | 0.243 | -2.5 | 108 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.308 | 0.335 | -8.8 | 114 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.404 | 0.409 | -1.2 | 109 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.149 | 0.151 | -1.3 | 109 | 0.00 |
| 59 | T | 2-Hexanone | 0.130 | 0.137 | -5.4 | 113 | 0.00 |
| 60 | T | Dibromochloromethane | 0.298 | 0.307 | -3.0 | 108 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.226 | 0.233 | -3.1 | 109 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.404 | 0.416 | -3.0 | 114 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 64 | T | Tetrachloroethene | 0.445 | 0.436 | 2.0 | 100 | 0.00 |
| 65 | PM | Chlorobenzene | 0.993 | 1.012 | -1.9 | 105 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.368 | 0.373 | -1.4 | 105 | 0.00 |
| 67 | C | Ethyl Benzene | 1.777 | 1.833 | -3.2# | 104 | 0.00 |
| 68 | T | m/p-Xylenes | 0.687 | 0.705 | -2.6 | 103 | 0.00 |
| 69 | T | o-Xylene | 0.656 | 0.668 | -1.8 | 104 | 0.00 |
| 70 | T | Styrene | 1.090 | 1.120 | -2.8 | 105 | 0.00 |
| 71 | P | Bromoform | 0.204 | 0.212 | -3.9 | 111 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 73 | T | Isopropylbenzene | 3.751 | 3.856 | -2.8 | 103 | 0.00 |
| 74 | T | N-amyl acetate | 0.815 | 0.886 | -8.7 | 113 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.597 | 0.630 | -5.5 | 115 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.471 | 0.492 | -4.5 | 99 | 0.00 |
| 77 | T | Bromobenzene | 0.849 | 0.886 | -4.4 | 108 | 0.00 |
| 78 | T | n-propylbenzene | 4.434 | 4.566 | -3.0 | 102 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.473 | 2.521 | -1.9 | 104 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.039 | 3.119 | -2.6 | 103 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.217 | 0.235 | -8.3 | 115 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.540 | 2.630 | -3.5 | 106 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.719 | 2.797 | -2.9 | 102 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.007 | 3.079 | -2.4 | 104 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.991 | 4.117 | -3.2 | 103 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.307 | 3.434 | -3.8 | 103 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.680 | 1.723 | -2.6 | 105 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.660 | 1.677 | -1.0 | 106 | 0.00 |
| 89 | T | n-Butylbenzene | 3.039 | 3.115 | -2.5 | 102 | 0.00 |
| 90 | T | Hexachloroethane | 0.570 | 0.594 | -4.2 | 104 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.451 | 1.489 | -2.6 | 106 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.107 | 0.105 | 1.9 | 106 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.896 | 0.930 | -3.8 | 106 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.489 | 0.497 | -1.6 | 102 | 0.00 |
| 95 | T | Naphthalene | 1.740 | 1.814 | -4.3 | 111 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016148.D
Acq On : 31 Oct 2023 15:03
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY103123

Quant Time: Nov 01 03:36:39 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
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 | 0.765 | 0.794 | -3.8 | 108 | 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\VY103123\
Data File : VY016148.D
Acq On : 31 Oct 2023 15:03
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY103123

Quant Time: Nov 01 03:36:39 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
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 | 100 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 50.983 | -2.0 | 97 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 47.766 | 4.5 | 97 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 51.206 | -2.4# | 99 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 53.579 | -7.2 | 109 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 50.236 | -0.5 | 101 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 50.390 | -0.8 | 98 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 51.874 | -3.7 | 109 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 50.119 | -0.2 | 99 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 53.748 | -7.5 | 108 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 246.168 | 1.5 | 121 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 50.426 | -0.9# | 102 | 0.00 |
| 13 | T | Acrolein | 250.000 | 258.687 | -3.5 | 120 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 51.790 | -3.6 | 105 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 264.384 | -5.8 | 114 | 0.00 |
| 16 | T | Acetone | 250.000 | 260.956 | -4.4 | 113 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 52.848 | -5.7 | 103 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 53.121 | -6.2 | 116 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 52.544 | -5.1 | 110 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 50.451 | -0.9 | 104 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 51.156 | -2.3 | 103 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 51.815 | -3.6 | 107 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 264.731 | -5.9 | 111 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 50.962 | -1.9 | 105 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 254.729 | -1.9 | 116 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 51.252 | -2.5 | 102 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 51.277 | -2.6 | 105 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 48.545 | 2.9 | 98 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 265.470 | -6.2 | 114 | 0.00 |
| 30 | C | Chloroform | 50.000 | 51.171 | -2.3# | 105 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 48.340 | 3.3 | 101 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 50.775 | -1.5 | 102 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 52.505 | -5.0 | 112 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 102 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 51.667 | -3.3 | 111 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 49.747 | 0.5 | 101 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 51.567 | -3.1 | 111 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 52.696 | -5.4 | 103 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 50.814 | -1.6 | 99 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.430 | -0.9 | 105 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 47.922 | 4.2 | 114 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 50.866 | -1.7 | 108 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 52.615 | -5.2 | 115 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 50.606 | -1.2 | 103 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 51.573 | -3.1# | 105 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 51.278 | -2.6 | 107 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 51.712 | -3.4 | 108 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 52.612 | -5.2 | 113 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016148.D
Acq On : 31 Oct 2023 15:03
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY103123

Quant Time: Nov 01 03:36:39 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
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 | 1036.986 | -3.7 | 114 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 52.904 | -5.8 | 110 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 266.829 | -6.7 | 114 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.023 | -2.0# | 104 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 52.385 | -4.8 | 110 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 51.160 | -2.3 | 108 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 51.197 | -2.4 | 108 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 54.363 | -8.7 | 114 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 50.648 | -1.3 | 109 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 252.660 | -1.1 | 109 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 263.586 | -5.4 | 113 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 51.564 | -3.1 | 108 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 51.620 | -3.2 | 109 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 51.442 | -2.9 | 114 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 102 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 49.060 | 1.9 | 100 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 50.922 | -1.8 | 105 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 50.750 | -1.5 | 105 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 51.570 | -3.1# | 104 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 102.682 | -2.7 | 103 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 50.925 | -1.8 | 104 | 0.00 |
| 70 | T | Styrene | 50.000 | 51.381 | -2.8 | 105 | 0.00 |
| 71 | P | Bromoform | 50.000 | 52.037 | -4.1 | 111 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 100 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 51.398 | -2.8 | 103 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 54.356 | -8.7 | 113 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 52.790 | -5.6 | 115 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 52.212 | -4.4 | 99 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 52.176 | -4.4 | 108 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 51.488 | -3.0 | 102 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 50.969 | -1.9 | 104 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 51.316 | -2.6 | 103 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 54.002 | -8.0 | 115 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 51.782 | -3.6 | 106 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 51.435 | -2.9 | 102 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 51.202 | -2.4 | 104 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 51.583 | -3.2 | 103 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 51.918 | -3.8 | 103 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 51.295 | -2.6 | 105 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 50.524 | -1.0 | 106 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 51.245 | -2.5 | 102 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 52.098 | -4.2 | 104 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 51.292 | -2.6 | 106 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 48.933 | 2.1 | 106 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 51.900 | -3.8 | 106 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 50.737 | -1.5 | 102 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 52.120 | -4.2 | 111 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016148.D
Acq On : 31 Oct 2023 15:03
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY103123

Quant Time: Nov 01 03:36:39 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
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 | 51.896 | -3.8 | 108 | 0.00 |

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: RMJE02

Lab Code: CHEM Case No.: 05252 SAS No.: 05252 SDG No.: 05252

Instrument ID: MSVOA_Y Calibration Date/Time: 11/07/2023 08:35

Lab File ID: VY016243.D Init. Calib. Date(s): 10/31/2023 10/31/2023

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:26 14:40

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.319 | 0.348 | | 9.09 | 20 |
| Chloromethane | 0.442 | 0.432 | 0.1 | -2.26 | 20 |
| Vinyl Chloride | 0.456 | 0.497 | | 8.99 | 20 |
| Bromomethane | 0.308 | 0.320 | | 3.9 | 20 |
| Chloroethane | 0.321 | 0.340 | | 5.92 | 20 |
| Trichlorofluoromethane | 0.688 | 0.789 | | 14.68 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.433 | 0.492 | | 13.63 | 20 |
| 1,1-Dichloroethene | 0.396 | 0.443 | | 11.87 | 20 |
| Acetone | 0.086 | 0.071 | | -17.44 | 20 |
| Carbon Disulfide | 0.988 | 1.058 | | 7.09 | 20 |
| Methyl tert-butyl Ether | 1.125 | 1.188 | | 5.6 | 20 |
| Methyl Acetate | 0.376 | 0.392 | | 4.26 | 20 |
| Methylene Chloride | 0.533 | 0.513 | | -3.75 | 20 |
| trans-1,2-Dichloroethene | 0.461 | 0.511 | | 10.85 | 20 |
| 1,1-Dichloroethane | 0.819 | 0.924 | 0.1 | 12.82 | 20 |
| Cyclohexane | 0.719 | 0.758 | | 5.42 | 20 |
| 2-Butanone | 0.129 | 0.125 | | -3.1 | 20 |
| Carbon Tetrachloride | 0.426 | 0.516 | | 21.13 | 20 |
| cis-1,2-Dichloroethene | 0.542 | 0.603 | | 11.26 | 20 |
| Bromochloromethane | 0.307 | 0.331 | | 7.82 | 20 |
| Chloroform | 0.892 | 0.987 | | 10.65 | 20 |
| 1,1,1-Trichloroethane | 0.818 | 0.898 | | 9.78 | 20 |
| Methylcyclohexane | 0.514 | 0.557 | | 8.37 | 20 |
| Benzene | 1.236 | 1.325 | | 7.2 | 20 |
| 1,2-Dichloroethane | 0.345 | 0.352 | | 2.03 | 20 |
| Trichloroethene | 0.362 | 0.380 | | 4.97 | 20 |
| 1,2-Dichloropropane | 0.297 | 0.330 | | 11.11 | 20 |
| Bromodichloromethane | 0.428 | 0.467 | | 9.11 | 20 |
| 4-Methyl-2-Pentanone | 0.189 | 0.187 | | -1.06 | 20 |
| Toluene | 0.801 | 0.855 | | 6.74 | 20 |
| t-1,3-Dichloropropene | 0.428 | 0.453 | | 5.84 | 20 |
| cis-1,3-Dichloropropene | 0.502 | 0.536 | | 6.77 | 20 |
| 1,1,2-Trichloroethane | 0.237 | 0.248 | | 4.64 | 20 |
| 2-Hexanone | 0.130 | 0.129 | | -0.77 | 20 |
| Dibromochloromethane | 0.298 | 0.317 | | 6.38 | 20 |
| 1,2-Dibromoethane | 0.226 | 0.232 | | 2.65 | 20 |
| Tetrachloroethene | 0.445 | 0.444 | | -0.22 | 20 |
| Chlorobenzene | 0.993 | 1.066 | 0.3 | 7.35 | 20 |
| Ethyl Benzene | 1.777 | 1.949 | | 9.68 | 20 |

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: RMJE02

Lab Code: CHEM Case No.: 05252 SAS No.: 05252 SDG No.: 05252

Instrument ID: MSVOA_Y Calibration Date/Time: 11/07/2023 08:35

Lab File ID: VY016243.D Init. Calib. Date(s): 10/31/2023 10/31/2023

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:26 14:40

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| m/p-Xylenes | 0.687 | 0.747 | | 8.73 | 20 |
| o-Xylene | 0.656 | 0.704 | | 7.32 | 20 |
| Styrene | 1.090 | 1.169 | | 7.25 | 20 |
| Bromoform | 0.204 | 0.216 | 0.1 | 5.88 | 20 |
| Isopropylbenzene | 3.751 | 4.261 | | 13.6 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.597 | 0.650 | 0.3 | 8.88 | 20 |
| 1,3-Dichlorobenzene | 1.680 | 1.818 | | 8.21 | 20 |
| 1,4-Dichlorobenzene | 1.660 | 1.791 | | 7.89 | 20 |
| 1,2-Dichlorobenzene | 1.451 | 1.562 | | 7.65 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.107 | 0.096 | | -10.28 | 20 |
| 1,2,4-Trichlorobenzene | 0.896 | 0.887 | | -1 | 20 |
| 1,2,3-Trichlorobenzene | 0.765 | 0.702 | | -8.23 | 20 |
| 1,2-Dichloroethane-d4 | 0.468 | 0.467 | | -0.21 | 20 |
| Dibromofluoromethane | 0.298 | 0.296 | | -0.67 | 20 |
| Toluene-d8 | 1.182 | 1.186 | | 0.34 | 20 |
| 4-Bromofluorobenzene | 0.404 | 0.389 | | -3.71 | 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\VY110723\
Data File : VY016243.D
Acq On : 07 Nov 2023 08:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 23:41:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/08/2023
Supervised By :Mahesh Dadoda 11/08/2023

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.795 | 168 | 164275 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.697 | 114 | 262616 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.502 | 117 | 222967 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.434 | 152 | 100419 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.149 | 65 | 76727 | 49.914 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 99.820% | | | |
| 35) Dibromofluoromethane | 7.728 | 113 | 77770 | 49.673 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 99.340% | | | |
| 50) Toluene-d8 | 10.185 | 98 | 311582 | 50.195 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 100.380% | | | |
| 62) 4-Bromofluorobenzene | 12.489 | 95 | 102110 | 48.106 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 96.220% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.906 | 85 | 57124 | 54.513 | ug/l | 96 |
| 3) Chloromethane | 2.119 | 50 | 70990 | 48.930 | ug/l | 100 |
| 4) Vinyl Chloride | 2.253 | 62 | 81666 | 54.537 | ug/l | 96 |
| 5) Bromomethane | 2.656 | 94 | 52608 | 52.058 | ug/l | 100 |
| 6) Chloroethane | 2.796 | 64 | 55881 | 53.007 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.131 | 101 | 129579 | 57.319 | ug/l | 99 |
| 8) Diethyl Ether | 3.527 | 74 | 39497 | 52.714 | ug/l | 86 |
| 9) 1,1,2-Trichlorotrifluo... | 3.899 | 101 | 80778 | 56.719 | ug/l | 97 |
| 10) Methyl Iodide | 4.094 | 142 | 86899 | 54.872 | ug/l | 97 |
| 11) Tert butyl alcohol | 4.960 | 59 | 27049 | 235.516 | ug/l # | 81 |
| 12) 1,1-Dichloroethene | 3.881 | 96 | 72750 | 55.967 | ug/l | 86 |
| 13) Acrolein | 3.735 | 56 | 25645 | 242.768 | ug/l | 100 |
| 14) Allyl chloride | 4.485 | 41 | 110259 | 59.301 | ug/l # | 94 |
| 15) Acrylonitrile | 5.167 | 53 | 83717 | 261.477 | ug/l | 99 |
| 16) Acetone | 3.948 | 43 | 58168 | 235.983 | ug/l | 92 |
| 17) Carbon Disulfide | 4.204 | 76 | 173816 | 53.560 | ug/l | 98 |
| 18) Methyl Acetate | 4.479 | 43 | 64468 | 52.150 | ug/l # | 90 |
| 19) Methyl tert-butyl Ether | 5.222 | 73 | 195213 | 52.796 | ug/l | 98 |
| 20) Methylene Chloride | 4.716 | 84 | 84241 | 54.132 | ug/l | 88 |
| 21) trans-1,2-Dichloroethene | 5.228 | 96 | 83935 | 55.435 | ug/l | 91 |
| 22) Diisopropyl ether | 6.125 | 45 | 253135 | 56.288 | ug/l | 88 |
| 23) Vinyl Acetate | 6.064 | 43 | 589870 | 267.150 | ug/l # | 93 |
| 24) 1,1-Dichloroethane | 6.027 | 63 | 151826 | 56.410 | ug/l | 97 |
| 25) 2-Butanone | 6.990 | 43 | 102416 | 241.495 | ug/l | 93 |
| 26) 2,2-Dichloropropane | 6.990 | 77 | 144180 | 56.668 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 6.990 | 96 | 99128 | 55.631 | ug/l | 93 |
| 28) Bromochloromethane | 7.344 | 49 | 54385 | 53.998 | ug/l | 90 |
| 29) Tetrahydrofuran | 7.356 | 42 | 67610 | 254.321 | ug/l | 89 |
| 30) Chloroform | 7.515 | 83 | 162207 | 55.356 | ug/l | 96 |
| 31) Cyclohexane | 7.795 | 56 | 124458 | 52.670 | ug/l | 91 |
| 32) 1,1,1-Trichloroethane | 7.710 | 97 | 147522 | 54.896 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 7.923 | 75 | 121882 | 53.912 | ug/l | 99 |
| 37) Ethyl Acetate | 7.076 | 43 | 49302 | 48.962 | ug/l # | 95 |
| 38) Carbon Tetrachloride | 7.911 | 117 | 135524 | 60.507 | ug/l | 97 |
| 39) Methylcyclohexane | 9.191 | 83 | 146376 | 54.241 | ug/l | 91 |
| 40) Benzene | 8.167 | 78 | 347853 | 53.595 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016243.D
Acq On : 07 Nov 2023 08:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 23:41:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/08/2023
Supervised By :Mahesh Dadoda 11/08/2023

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.313 | 41 | 26158 | 44.754 | ug/l | | 92 |
| 42) 1,2-Dichloroethane | 8.246 | 62 | 92562 | 51.104 | ug/l | | 92 |
| 43) Isopropyl Acetate | 8.277 | 43 | 98065 | 49.235 | ug/l | # | 91 |
| 44) Trichloroethene | 8.947 | 130 | 99918 | 52.606 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.222 | 63 | 86709 | 55.535 | ug/l | | 99 |
| 46) Dibromomethane | 9.313 | 93 | 45927 | 51.853 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.502 | 83 | 122623 | 54.490 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.301 | 41 | 45375 | 50.098 | ug/l | | 87 |
| 49) 1,4-Dioxane | 9.307 | 88 | 10104 | 953.515 | ug/l | # | 66 |
| 51) 4-Methyl-2-Pentanone | 10.075 | 43 | 245339 | 246.861 | ug/l | | 91 |
| 52) Toluene | 10.252 | 92 | 224412 | 53.358 | ug/l | | 95 |
| 53) t-1,3-Dichloropropene | 10.471 | 75 | 118924 | 52.937 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.935 | 75 | 140796 | 53.411 | ug/l | | 90 |
| 55) 1,1,2-Trichloroethane | 10.654 | 97 | 65160 | 52.300 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.514 | 69 | 81736 | 50.516 | ug/l | # | 86 |
| 57) 1,3-Dichloropropane | 10.801 | 76 | 109465 | 51.611 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.789 | 63 | 194240 | 247.568 | ug/l | | 93 |
| 59) 2-Hexanone | 10.837 | 43 | 169390 | 248.723 | ug/l | | 89 |
| 60) Dibromochloromethane | 10.990 | 129 | 83169 | 53.210 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.099 | 107 | 61015 | 51.487 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.727 | 164 | 99036 | 49.936 | ug/l | | 97 |
| 65) Chlorobenzene | 11.526 | 112 | 237739 | 53.668 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.599 | 131 | 91724 | 55.903 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.599 | 91 | 434552 | 54.845 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.709 | 106 | 333225 | 108.837 | ug/l | | 94 |
| 69) o-Xylene | 12.038 | 106 | 157016 | 53.713 | ug/l | | 98 |
| 70) Styrene | 12.050 | 104 | 260564 | 53.618 | ug/l | | 97 |
| 71) Bromoform | 12.215 | 173 | 48210 | 52.965 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.337 | 105 | 427922 | 56.809 | ug/l | | 99 |
| 74) N-amyl acetate | 12.154 | 43 | 83990 | 51.310 | ug/l | # | 89 |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83 | 65320 | 54.495 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.642 | 75 | 45572m | 48.191 | ug/l | | |
| 77) Bromobenzene | 12.617 | 156 | 94119 | 55.181 | ug/l | | 94 |
| 78) n-propylbenzene | 12.678 | 91 | 507431 | 56.979 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.764 | 91 | 279456 | 56.262 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.818 | 105 | 343018 | 56.207 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.386 | 75 | 23320 | 53.469 | ug/l | | 93 |
| 82) 4-Chlorotoluene | 12.861 | 91 | 283208 | 55.525 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.087 | 119 | 313918 | 57.489 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.129 | 105 | 333067 | 55.156 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.264 | 105 | 461989 | 57.644 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.379 | 119 | 373200 | 56.185 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.373 | 146 | 182536 | 54.112 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.453 | 146 | 179829 | 53.937 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.702 | 91 | 341903 | 56.020 | ug/l | | 96 |
| 90) Hexachloroethane | 13.971 | 117 | 71081 | 62.097 | ug/l | | 91 |
| 91) 1,2-Dichlorobenzene | 13.745 | 146 | 156865 | 53.821 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.367 | 75 | 9608 | 44.789 | ug/l | | 90 |
| 93) 1,2,4-Trichlorobenzene | 15.013 | 180 | 89022 | 49.486 | ug/l | | 97 |
| 94) Hexachlorobutadiene | 15.123 | 225 | 50910 | 51.790 | ug/l | | 99 |
| 95) Naphthalene | 15.245 | 128 | 152843 | 43.735 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.434 | 180 | 70470 | 45.858 | ug/l | | 98 |

Sample Results: **VY016243.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016243.D
Acq On : 07 Nov 2023 08:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/08/2023
Supervised By :Mahesh Dadoda 11/08/2023

Quant Time: Nov 07 23:41:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration

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

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

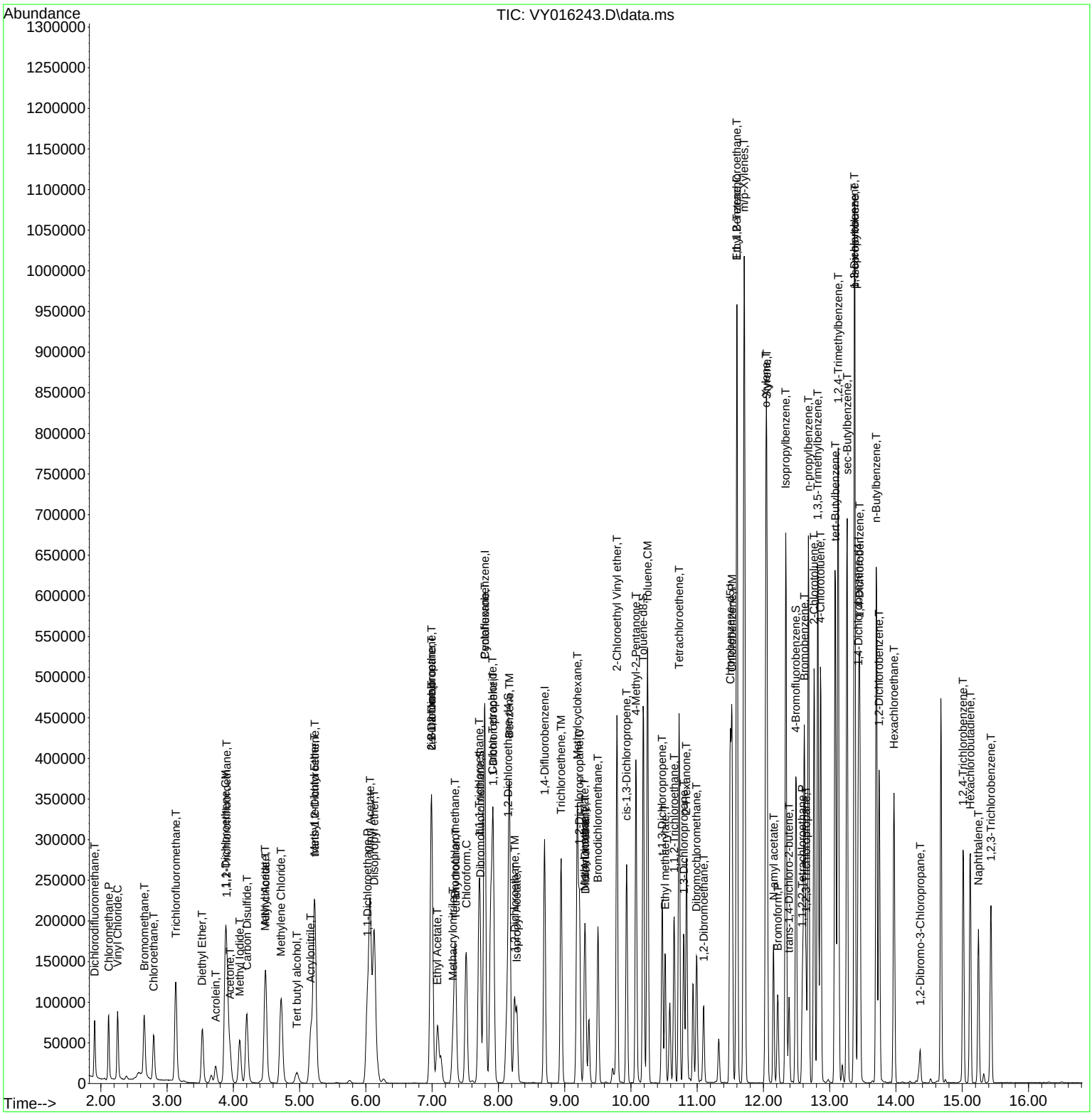
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016243.D
Acq On : 07 Nov 2023 08:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 23:41:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/08/2023
Supervised By :Mahesh Dadoda 11/08/2023



Sample Results: **VY016243.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016243.D
Acq On : 07 Nov 2023 08:35
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: Nov 07 23:41:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
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 | 90 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.319 | 0.348 | -9.1 | 93 | 0.00 |
| 3 | P | Chloromethane | 0.442 | 0.432 | 2.3 | 89 | 0.00 |
| 4 | C | Vinyl Chloride | 0.456 | 0.497 | -9.0# | 95 | 0.00 |
| 5 | T | Bromomethane | 0.308 | 0.320 | -3.9 | 95 | 0.00 |
| 6 | T | Chloroethane | 0.321 | 0.340 | -5.9 | 96 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.688 | 0.789 | -14.7 | 101 | 0.00 |
| 8 | T | Diethyl Ether | 0.228 | 0.240 | -5.3 | 100 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.433 | 0.492 | -13.6 | 101 | 0.00 |
| 10 | T | Methyl Iodide | 0.482 | 0.529 | -9.8 | 100 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.035 | 0.033 | 5.7 | 104 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.396 | 0.443 | -11.9# | 102 | 0.00 |
| 13 | T | Acrolein | 0.035 | 0.031 | 11.4 | 101 | 0.00 |
| 14 | T | Allyl chloride | 0.566 | 0.671 | -18.6 | 108 | 0.00 |
| 15 | T | Acrylonitrile | 0.097 | 0.102 | -5.2 | 102 | 0.00 |
| 16 | T | Acetone | 0.086 | 0.071 | 17.4 | 93 | 0.00 |
| 17 | T | Carbon Disulfide | 0.988 | 1.058 | -7.1 | 94 | 0.00 |
| 18 | T | Methyl Acetate | 0.376 | 0.392 | -4.3 | 102 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.125 | 1.188 | -5.6 | 100 | 0.00 |
| 20 | T | Methylene Chloride | 0.533 | 0.513 | 3.8 | 100 | -0.01 |
| 21 | T | trans-1,2-Dichloroethene | 0.461 | 0.511 | -10.8 | 100 | 0.00 |
| 22 | T | Diisopropyl ether | 1.369 | 1.541 | -12.6 | 105 | 0.00 |
| 23 | T | Vinyl Acetate | 0.672 | 0.718 | -6.8 | 101 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.819 | 0.924 | -12.8 | 105 | 0.00 |
| 25 | T | 2-Butanone | 0.129 | 0.125 | 3.1 | 99 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.774 | 0.878 | -13.4 | 102 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.542 | 0.603 | -11.3 | 103 | 0.00 |
| 28 | T | Bromochloromethane | 0.307 | 0.331 | -7.8 | 98 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.081 | 0.082 | -1.2 | 98 | 0.00 |
| 30 | C | Chloroform | 0.892 | 0.987 | -10.7# | 102 | 0.00 |
| 31 | T | Cyclohexane | 0.719 | 0.758 | -5.4 | 99 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.818 | 0.898 | -9.8 | 99 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.468 | 0.467 | 0.2 | 96 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.298 | 0.296 | 0.7 | 98 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.430 | 0.464 | -7.9 | 101 | 0.00 |
| 37 | T | Ethyl Acetate | 0.192 | 0.188 | 2.1 | 97 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.426 | 0.516 | -21.1 | 109 | 0.00 |
| 39 | T | Methylcyclohexane | 0.514 | 0.557 | -8.4 | 97 | 0.00 |
| 40 | TM | Benzene | 1.236 | 1.325 | -7.2 | 102 | 0.00 |
| 41 | T | Methacrylonitrile | 0.111 | 0.100 | 9.9 | 98 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.345 | 0.352 | -2.0 | 99 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.379 | 0.373 | 1.6 | 99 | 0.00 |
| 44 | TM | Trichloroethene | 0.362 | 0.380 | -5.0 | 99 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.297 | 0.330 | -11.1# | 104 | 0.00 |
| 46 | T | Dibromomethane | 0.169 | 0.175 | -3.6 | 99 | 0.00 |
| 47 | T | Bromodichloromethane | 0.428 | 0.467 | -9.1 | 104 | 0.00 |
| 48 | T | Methyl methacrylate | 0.172 | 0.173 | -0.6 | 99 | 0.00 |

Sample Results: **VY016243.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016243.D
Acq On : 07 Nov 2023 08:35
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: Nov 07 23:41:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
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 | 0.002 | 0.002 | 0.0 | 97 | 0.00 |
| 50 | S | Toluene-d8 | 1.182 | 1.186 | -0.3 | 96 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.189 | 0.187 | 1.1 | 97 | 0.00 |
| 52 | CM | Toluene | 0.801 | 0.855 | -6.7# | 100 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.428 | 0.453 | -5.8 | 102 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.502 | 0.536 | -6.8 | 103 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.237 | 0.248 | -4.6 | 102 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.308 | 0.311 | -1.0 | 97 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.404 | 0.417 | -3.2 | 102 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.149 | 0.148 | 0.7 | 98 | 0.00 |
| 59 | T | 2-Hexanone | 0.130 | 0.129 | 0.8 | 98 | 0.00 |
| 60 | T | Dibromochloromethane | 0.298 | 0.317 | -6.4 | 102 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.226 | 0.232 | -2.7 | 100 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.404 | 0.389 | 3.7 | 98 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 64 | T | Tetrachloroethene | 0.445 | 0.444 | 0.2 | 91 | 0.00 |
| 65 | PM | Chlorobenzene | 0.993 | 1.066 | -7.4 | 99 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.368 | 0.411 | -11.7 | 103 | 0.00 |
| 67 | C | Ethyl Benzene | 1.777 | 1.949 | -9.7# | 99 | 0.00 |
| 68 | T | m/p-Xylenes | 0.687 | 0.747 | -8.7 | 98 | 0.00 |
| 69 | T | o-Xylene | 0.656 | 0.704 | -7.3 | 98 | 0.00 |
| 70 | T | Styrene | 1.090 | 1.169 | -7.2 | 98 | 0.00 |
| 71 | P | Bromoform | 0.204 | 0.216 | -5.9 | 101 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 87 | 0.00 |
| 73 | T | Isopropylbenzene | 3.751 | 4.261 | -13.6 | 98 | 0.00 |
| 74 | T | N-amyl acetate | 0.815 | 0.836 | -2.6 | 92 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.597 | 0.650 | -8.9 | 103 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.471 | 0.454 | 3.6 | 79 | 0.00 |
| 77 | T | Bromobenzene | 0.849 | 0.937 | -10.4 | 99 | 0.00 |
| 78 | T | n-propylbenzene | 4.434 | 5.053 | -14.0 | 98 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.473 | 2.783 | -12.5 | 99 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.039 | 3.416 | -12.4 | 97 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.217 | 0.232 | -6.9 | 98 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.540 | 2.820 | -11.0 | 98 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.719 | 3.126 | -15.0 | 98 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.007 | 3.317 | -10.3 | 97 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.991 | 4.601 | -15.3 | 99 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.307 | 3.716 | -12.4 | 96 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.680 | 1.818 | -8.2 | 96 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.660 | 1.791 | -7.9 | 98 | 0.00 |
| 89 | T | n-Butylbenzene | 3.039 | 3.405 | -12.0 | 96 | 0.00 |
| 90 | T | Hexachloroethane | 0.570 | 0.708 | -24.2 | 107 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.451 | 1.562 | -7.6 | 96 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.107 | 0.096 | 10.3 | 84 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.896 | 0.887 | 1.0 | 87 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.489 | 0.507 | -3.7 | 90 | 0.00 |
| 95 | T | Naphthalene | 1.740 | 1.522 | 12.5 | 81 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016243.D
Acq On : 07 Nov 2023 08:35
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: Nov 07 23:41:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
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 | 0.765 | 0.702 | 8.2 | 82 | 0.00 |

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

Sample Results: **VY016243.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016243.D
Acq On : 07 Nov 2023 08:35
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: Nov 07 23:41:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
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 | 90 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 54.513 | -9.0 | 93 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 48.930 | 2.1 | 89 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 54.537 | -9.1# | 95 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 52.058 | -4.1 | 95 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 53.007 | -6.0 | 96 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 57.319 | -14.6 | 101 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 52.714 | -5.4 | 100 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 56.719 | -13.4 | 101 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 54.872 | -9.7 | 100 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 235.516 | 5.8 | 104 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 55.967 | -11.9# | 102 | 0.00 |
| 13 | T | Acrolein | 250.000 | 242.768 | 2.9 | 101 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 59.301 | -18.6 | 108 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 261.477 | -4.6 | 102 | 0.00 |
| 16 | T | Acetone | 250.000 | 235.983 | 5.6 | 93 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 53.560 | -7.1 | 94 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 52.150 | -4.3 | 102 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 52.796 | -5.6 | 100 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 54.132 | -8.3 | 100 | -0.01 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 55.435 | -10.9 | 100 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 56.288 | -12.6 | 105 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 267.150 | -6.9 | 101 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 56.410 | -12.8 | 105 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 241.495 | 3.4 | 99 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 56.668 | -13.3 | 102 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 55.631 | -11.3 | 103 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 53.998 | -8.0 | 98 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 254.321 | -1.7 | 98 | 0.00 |
| 30 | C | Chloroform | 50.000 | 55.356 | -10.7# | 102 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 52.670 | -5.3 | 99 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 54.896 | -9.8 | 99 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 49.914 | 0.2 | 96 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 93 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 49.673 | 0.7 | 98 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 53.912 | -7.8 | 101 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 48.962 | 2.1 | 97 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 60.507 | -21.0 | 109 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 54.241 | -8.5 | 97 | 0.00 |
| 40 | TM | Benzene | 50.000 | 53.595 | -7.2 | 102 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 44.754 | 10.5 | 98 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 51.104 | -2.2 | 99 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 49.235 | 1.5 | 99 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 52.606 | -5.2 | 99 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 55.535 | -11.1# | 104 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 51.853 | -3.7 | 99 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 54.490 | -9.0 | 104 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 50.098 | -0.2 | 99 | 0.00 |

Sample Results: **VY016243.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016243.D
Acq On : 07 Nov 2023 08:35
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: Nov 07 23:41:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
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 | 953.515 | 4.6 | 97 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 50.195 | -0.4 | 96 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 246.861 | 1.3 | 97 | 0.00 |
| 52 | CM | Toluene | 50.000 | 53.358 | -6.7# | 100 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 52.937 | -5.9 | 102 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 53.411 | -6.8 | 103 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 52.300 | -4.6 | 102 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 50.516 | -1.0 | 97 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 51.611 | -3.2 | 102 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 247.568 | 1.0 | 98 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 248.723 | 0.5 | 98 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 53.210 | -6.4 | 102 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 51.487 | -3.0 | 100 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 48.106 | 3.8 | 98 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 92 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 49.936 | 0.1 | 91 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 53.668 | -7.3 | 99 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 55.903 | -11.8 | 103 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 54.845 | -9.7# | 99 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 108.837 | -8.8 | 98 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 53.713 | -7.4 | 98 | 0.00 |
| 70 | T | Styrene | 50.000 | 53.618 | -7.2 | 98 | 0.00 |
| 71 | P | Bromoform | 50.000 | 52.965 | -5.9 | 101 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 87 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 56.809 | -13.6 | 98 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 51.310 | -2.6 | 92 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 54.495 | -9.0 | 103 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 48.191 | 3.6 | 79 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 55.181 | -10.4 | 99 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 56.979 | -14.0 | 98 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 56.262 | -12.5 | 99 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 56.207 | -12.4 | 97 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 53.469 | -6.9 | 98 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 55.525 | -11.0 | 98 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 57.489 | -15.0 | 98 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 55.156 | -10.3 | 97 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 57.644 | -15.3 | 99 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 56.185 | -12.4 | 96 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 54.112 | -8.2 | 96 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 53.937 | -7.9 | 98 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 56.020 | -12.0 | 96 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 62.097 | -24.2 | 107 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 53.821 | -7.6 | 96 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 44.789 | 10.4 | 84 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 49.486 | 1.0 | 87 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 51.790 | -3.6 | 90 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 43.735 | 12.5 | 81 | 0.00 |

Sample Results: **VY016243.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016243.D
Acq On : 07 Nov 2023 08:35
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: Nov 07 23:41:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
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 | 45.858 | 8.3 | 82 | 0.00 |

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

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# QC SAMPLE DATA

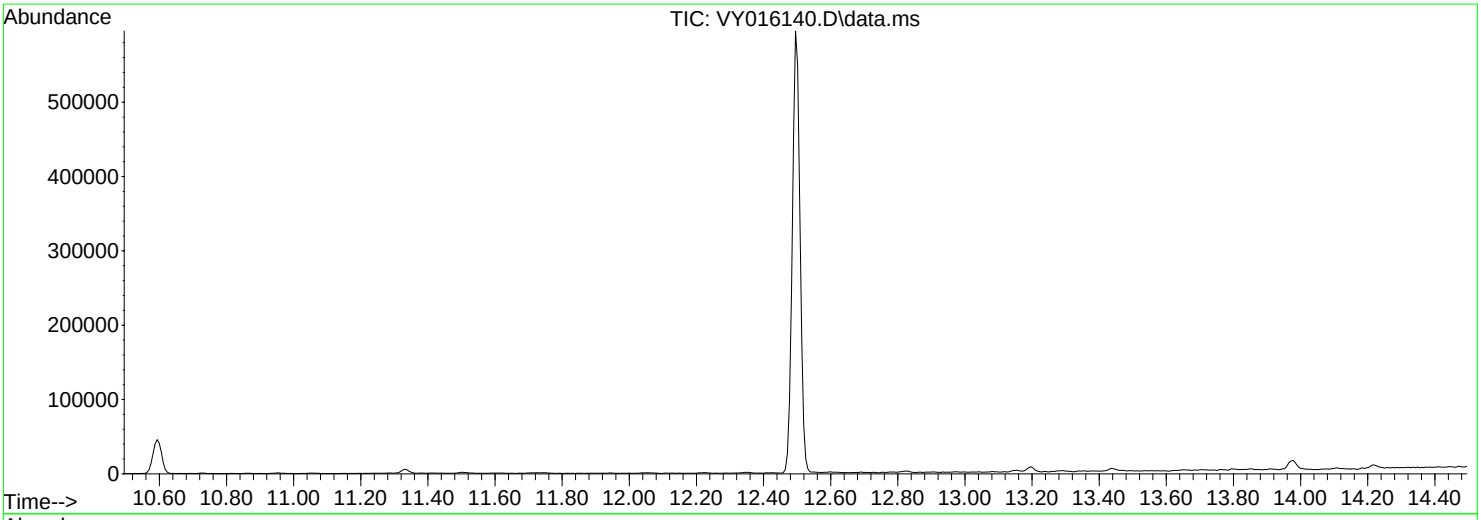
Sample Results: **VY016140.D**

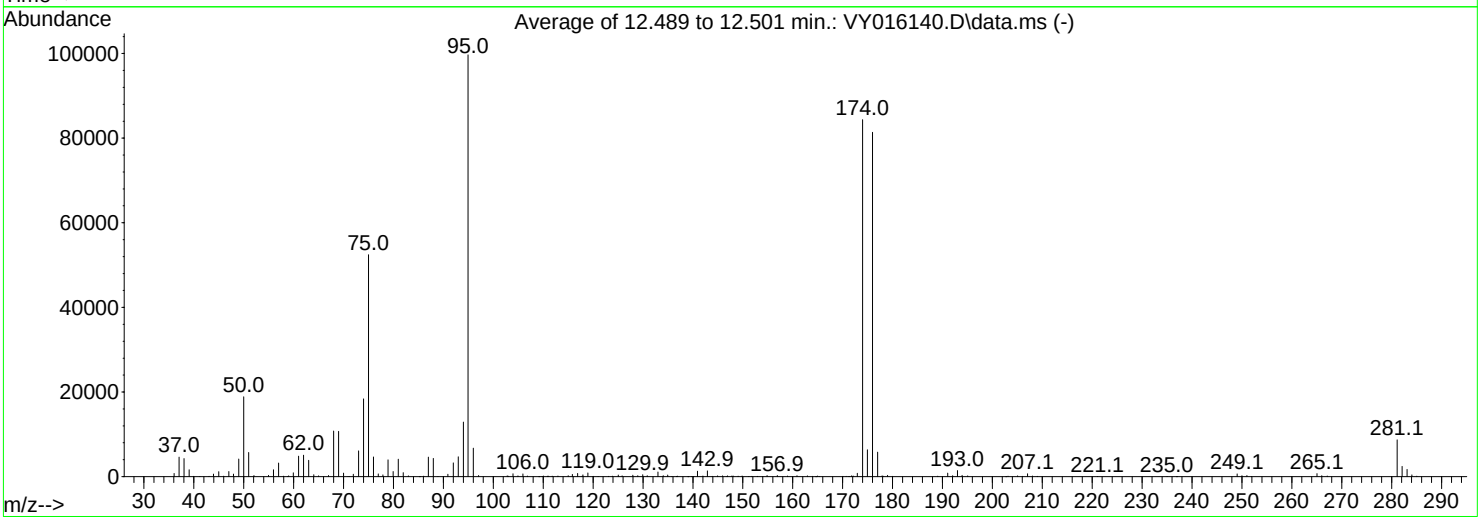
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
Data File : VY016140.D
Acq On : 31 Oct 2023 08:42
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

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

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Title : SW846 8260
Last Update : Wed Nov 01 03:33:29 2023




AutoFind: Scans 1750, 1751, 1752; Background Corrected with Scan 1742

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 18.9 | 18856 | PASS |
| 75 | 95 | 30 | 60 | 52.6 | 52437 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 99681 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 6718 | PASS |
| 173 | 174 | 0.00 | 2 | 0.9 | 801 | PASS |
| 174 | 95 | 50 | 100 | 84.6 | 84349 | PASS |
| 175 | 174 | 5 | 9 | 7.5 | 6339 | PASS |
| 176 | 174 | 95 | 101 | 96.5 | 81357 | PASS |
| 177 | 176 | 5 | 9 | 7.1 | 5789 | PASS |

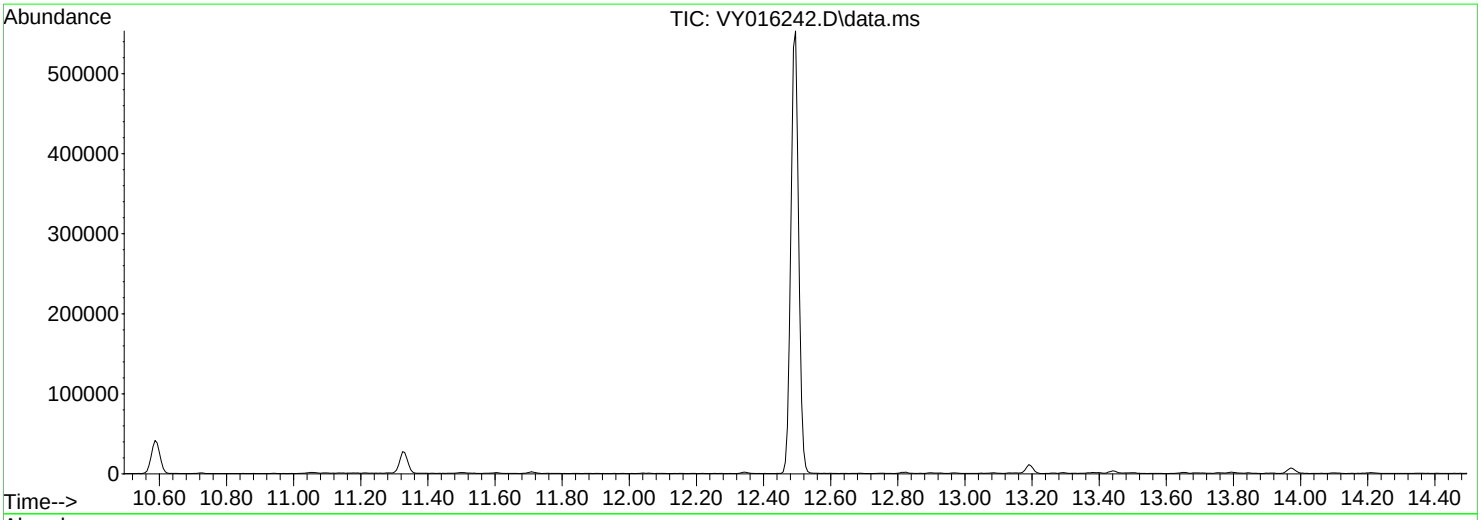
Sample Results: **VY016242.D**

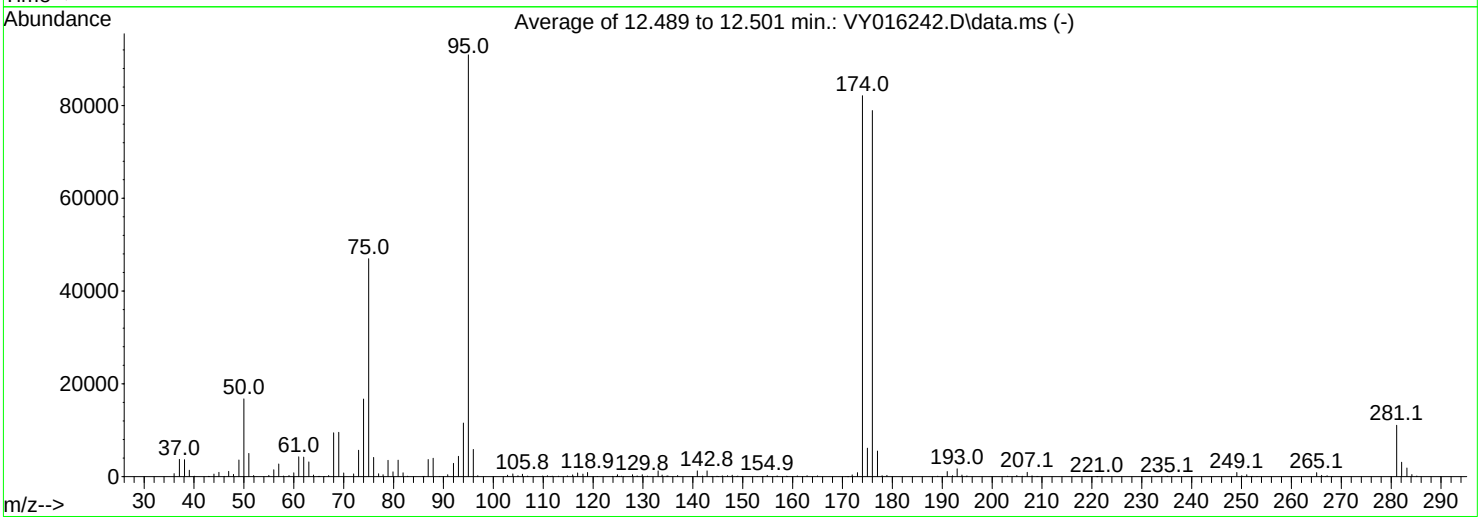
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016242.D
Acq On : 07 Nov 2023 08:03
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

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

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Title : SW846 8260
Last Update : Wed Nov 01 03:33:29 2023




AutoFind: Scans 1750, 1751, 1752; Background Corrected with Scan 1741

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 18.4 | 16764 | PASS |
| 75 | 95 | 30 | 60 | 51.7 | 46992 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 90928 | PASS |
| 96 | 95 | 5 | 9 | 6.4 | 5850 | PASS |
| 173 | 174 | 0.00 | 2 | 1.0 | 851 | PASS |
| 174 | 95 | 50 | 100 | 90.3 | 82109 | PASS |
| 175 | 174 | 5 | 9 | 7.5 | 6148 | PASS |
| 176 | 174 | 95 | 101 | 96.1 | 78923 | PASS |
| 177 | 176 | 5 | 9 | 7.0 | 5517 | PASS |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RMJ Environomics, Inc. | Date Collected: | |
| Project: | 245 Greenwood Ave | Date Received: | |
| Client Sample ID: | VY1107SBL01 | SDG No.: | O5252 |
| Lab Sample ID: | VY1107SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY016244.D | 1 | | 11/07/23 09:31 | VY110723 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.60 | U | 1.60 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 0.91 | U | 0.91 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.93 | U | 0.93 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 1.20 | U | 1.20 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 0.88 | U | 0.88 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 1.10 | U | 1.10 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.72 | U | 0.72 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.79 | U | 0.79 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 9.40 | U | 9.40 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 2.20 | U | 2.20 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.65 | U | 0.65 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.60 | U | 1.60 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 7.20 | J | 6.10 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.73 | U | 0.73 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.72 | U | 0.72 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.70 | U | 0.70 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 7.30 | U | 7.30 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.64 | U | 0.64 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.40 | U | 2.40 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 1.30 | U | 1.30 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.76 | U | 0.76 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 3.40 | U | 3.40 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 0.66 | U | 0.66 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.72 | U | 0.72 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.66 | U | 0.66 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.59 | U | 0.59 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.70 | U | 0.70 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 4.50 | U | 4.50 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 0.65 | U | 0.65 | 5.00 | ug/Kg |
| 10061-02-6 | t-1,3-Dichloropropene | 0.77 | U | 0.77 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.74 | U | 0.74 | 5.00 | ug/Kg |

Raw Data: **VY016244.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RMJ Environomics, Inc. | Date Collected: | |
| Project: | 245 Greenwood Ave | Date Received: | |
| Client Sample ID: | VY1107SBL01 | SDG No.: | O5252 |
| Lab Sample ID: | VY1107SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY016244.D | 1 | | 11/07/23 09:31 | VY110723 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | 0.86 | U | 0.86 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 5.30 | U | 5.30 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.85 | U | 0.85 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.79 | U | 0.79 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.77 | U | 0.77 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.63 | U | 0.63 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.40 | U | 1.40 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 0.77 | U | 0.77 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 0.69 | U | 0.69 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 0.95 | U | 0.95 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.71 | U | 0.71 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.10 | U | 1.10 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.68 | U | 0.68 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.60 | U | 0.60 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.60 | U | 0.60 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.20 | U | 1.20 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.61 | U | 0.61 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.63 | U | 0.63 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 62.4 | | 70 (50) - 130 (163) | 125% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.2 | | 70 (54) - 130 (147) | 98% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.6 | | 70 (58) - 130 (134) | 99% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.2 | | 70 (39) - 130 (149) | 102% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 107000 | 7.795 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 189000 | 8.697 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 182000 | 11.496 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 83700 | 13.434 | | | |

Raw Data: **VY016244.D**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RMJ Environomics, Inc. | Date Collected: | |
| Project: | 245 Greenwood Ave | Date Received: | |
| Client Sample ID: | VY1107SBL01 | SDG No.: | O5252 |
| Lab Sample ID: | VY1107SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY016244.D | 1 | | 11/07/23 09:31 | VY110723 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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\VY110723\
Data File : VY016244.D
Acq On : 07 Nov 2023 09:31
Operator : SY/MD
Sample : VY1107SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1107SBL01

Quant Time: Nov 07 23:42:01 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration

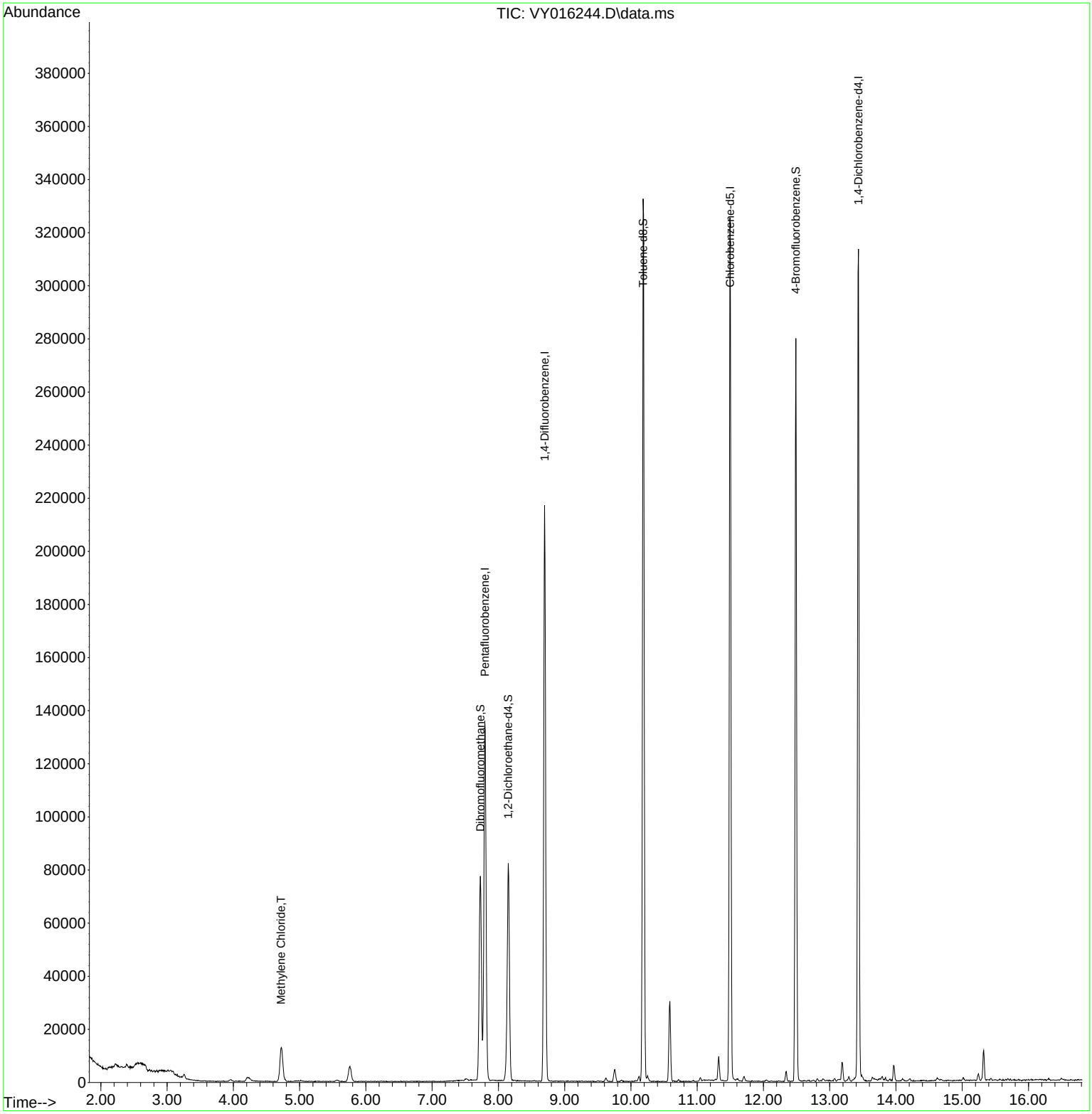
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.795 | 168 | 106864 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.697 | 114 | 189173 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.496 | 117 | 181795 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.434 | 152 | 83712 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.149 | 65 | 62381 | 62.383 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 124.760% | | | |
| 35) Dibromofluoromethane | 7.728 | 113 | 55475 | 49.189 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 98.380% | | | |
| 50) Toluene-d8 | 10.185 | 98 | 221655 | 49.571 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 99.140% | | | |
| 62) 4-Bromofluorobenzene | 12.489 | 95 | 78348 | 51.241 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 102.480% | | | |
| Target Compounds | | | | | | Qvalue |
| 20) Methylene Chloride | 4.716 | 84 | 9952 | 7.176 | ug/l | 89 |

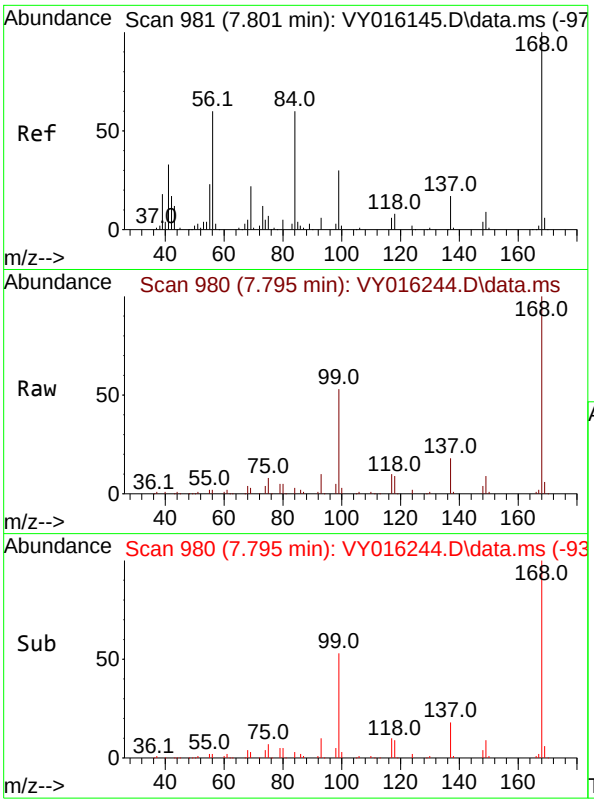
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016244.D
Acq On : 07 Nov 2023 09:31
Operator : SY/MD
Sample : VY1107SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1107SBL01

Quant Time: Nov 07 23:42:01 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration



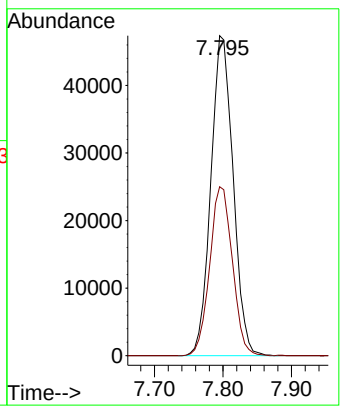


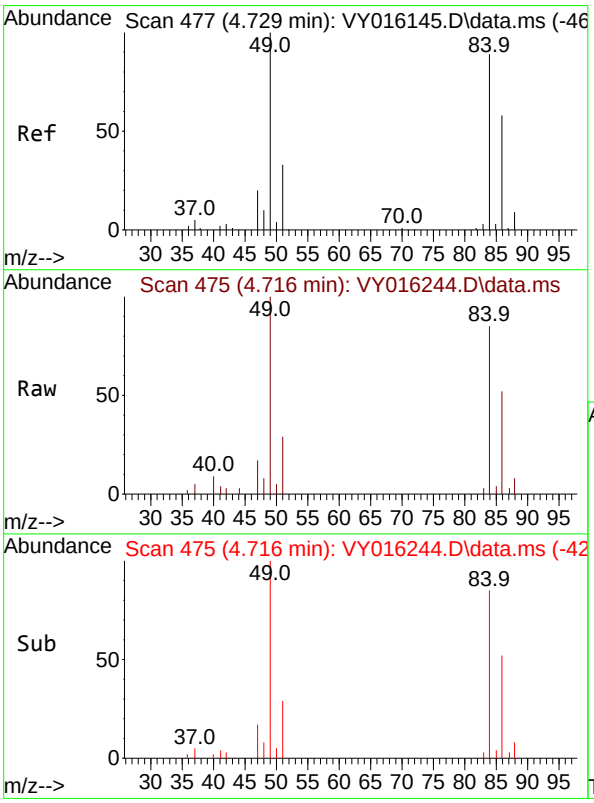

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY016244.D
Acq: 07 Nov 2023 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1107SBL01

Tgt Ion:168 Resp: 106864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 52.8 | 43.4 | 65.0 |

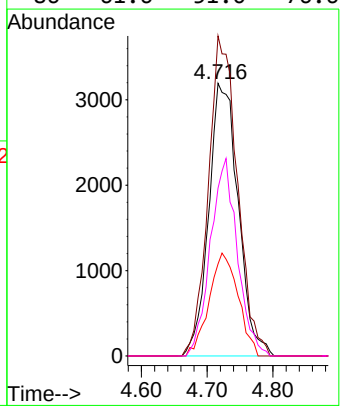


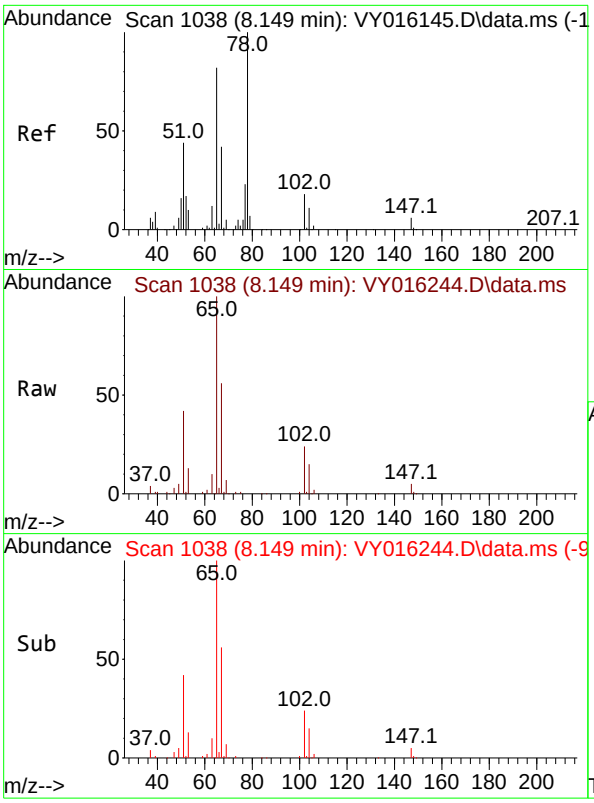




#20
Methylene Chloride
Concen: 7.176 ug/l
RT: 4.716 min Scan# 475
Delta R.T. -0.013 min
Lab File: VY016244.D
Acq: 07 Nov 2023 09:31

Tgt Ion: 84 Resp: 9952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 117.4 | 106.9 | 160.3 |
| 51 | 33.7 | 33.2 | 49.8 |
| 86 | 61.6 | 51.0 | 76.6 |



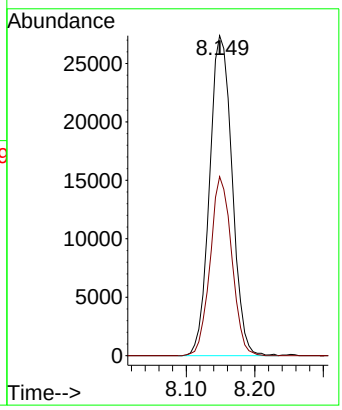


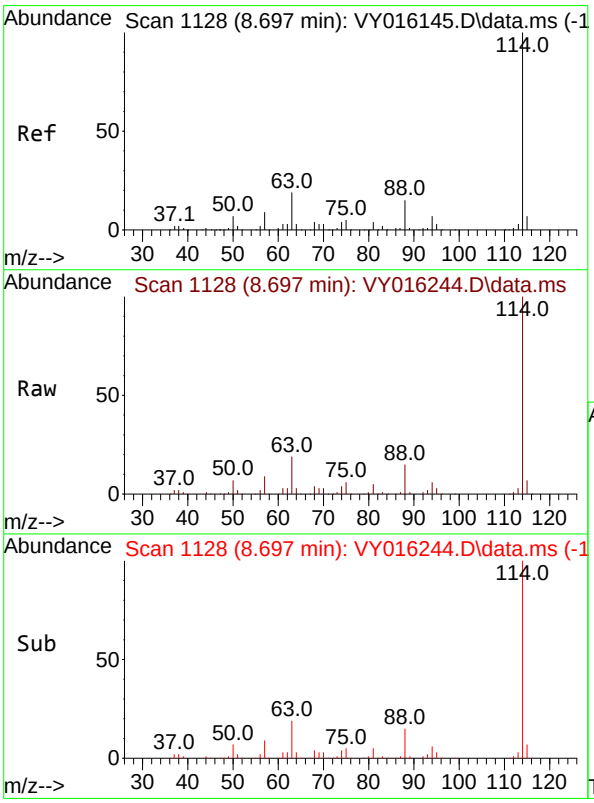

#33
1,2-Dichloroethane-d4
Concen: 62.383 ug/l
RT: 8.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY016244.D
Acq: 07 Nov 2023 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1107SBL01

Tgt Ion: 65 Resp: 62381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.6 | 0.0 | 101.8 |

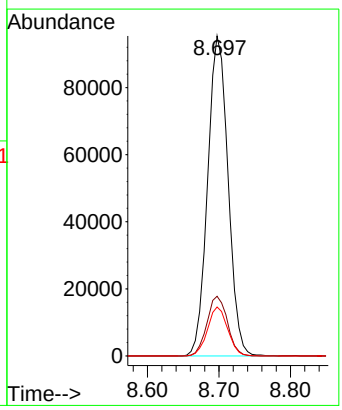


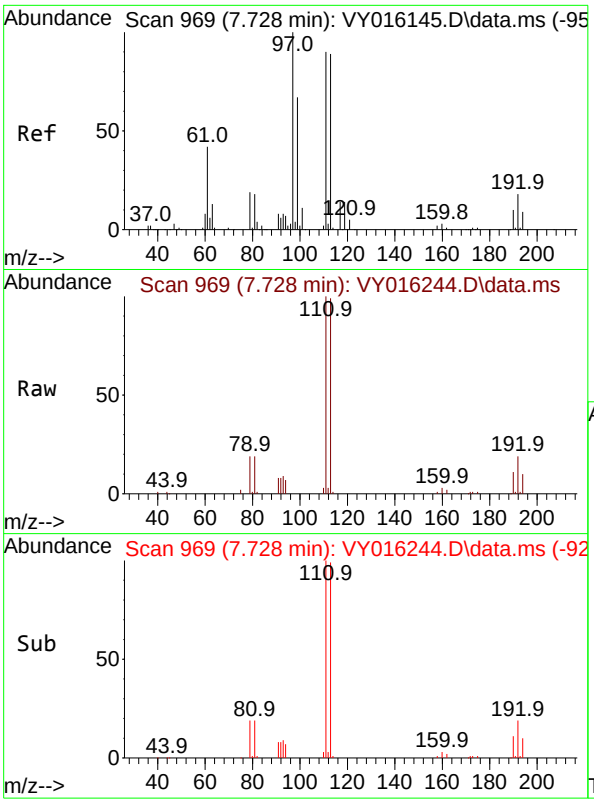




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.697 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VY016244.D
Acq: 07 Nov 2023 09:31

Tgt Ion:114 Resp: 189173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.7 | 0.0 | 42.4 |
| 88 | 15.3 | 0.0 | 30.6 |



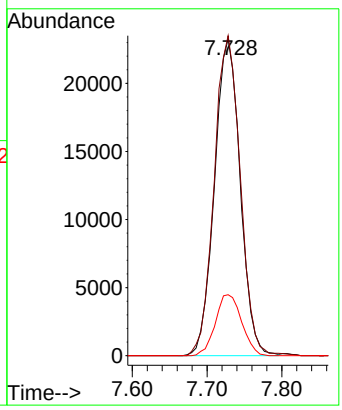


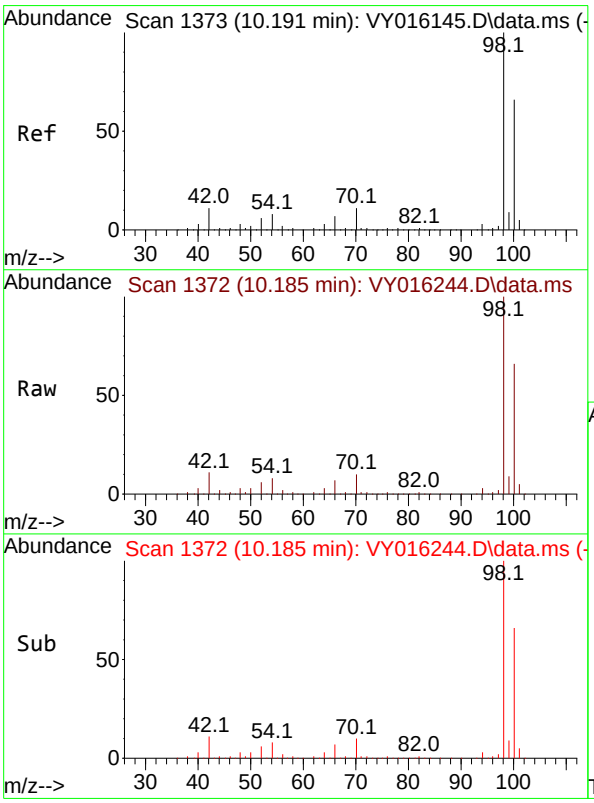

#35
Dibromofluoromethane
Concen: 49.189 ug/l
RT: 7.728 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY016244.D
Acq: 07 Nov 2023 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1107SBL01

Tgt Ion:113 Resp: 55475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.8 | 81.3 | 121.9 |
| 192 | 19.7 | 16.9 | 25.3 |

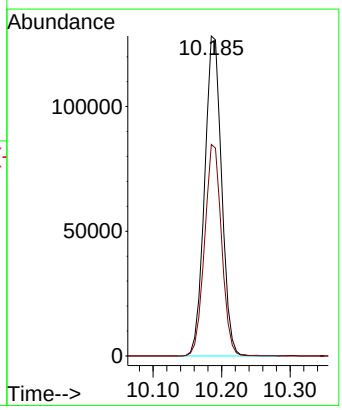


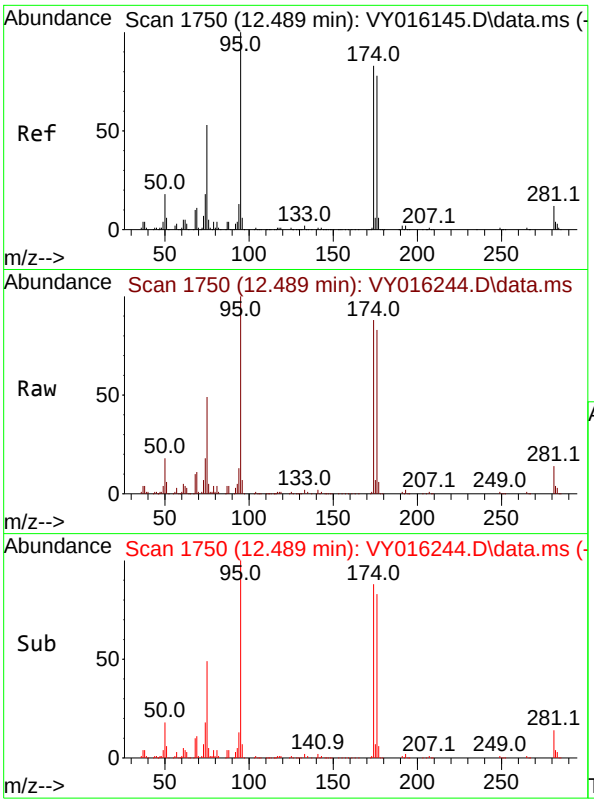




#50
Toluene-d8
Concen: 49.571 ug/l
RT: 10.185 min Scan# 1372
Delta R.T. -0.006 min
Lab File: VY016244.D
Acq: 07 Nov 2023 09:31

Tgt Ion: 98 Resp: 221655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.0 | 50.1 | 75.1 |



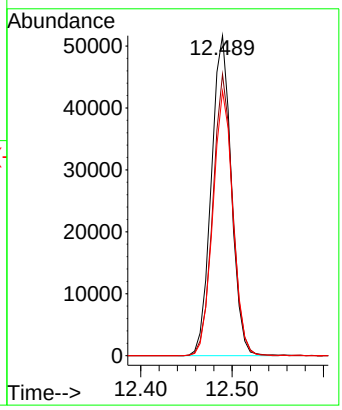


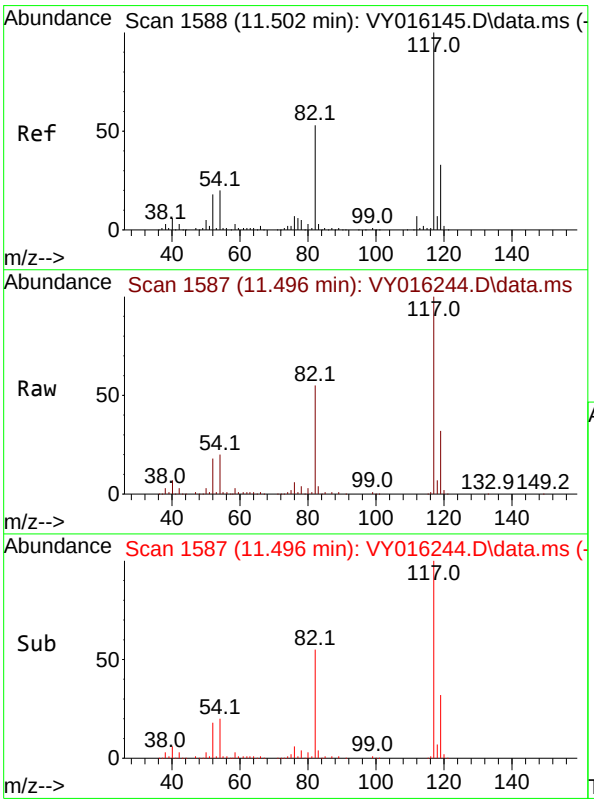

#62
4-Bromofluorobenzene
Concen: 51.241 ug/l
RT: 12.489 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY016244.D
Acq: 07 Nov 2023 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1107SBL01

Tgt Ion: 95 Resp: 78348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.9 | 0.0 | 178.2 |
| 176 | 82.9 | 0.0 | 173.8 |

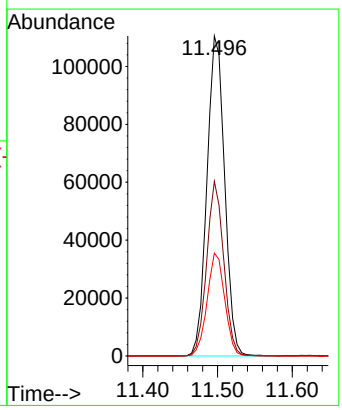


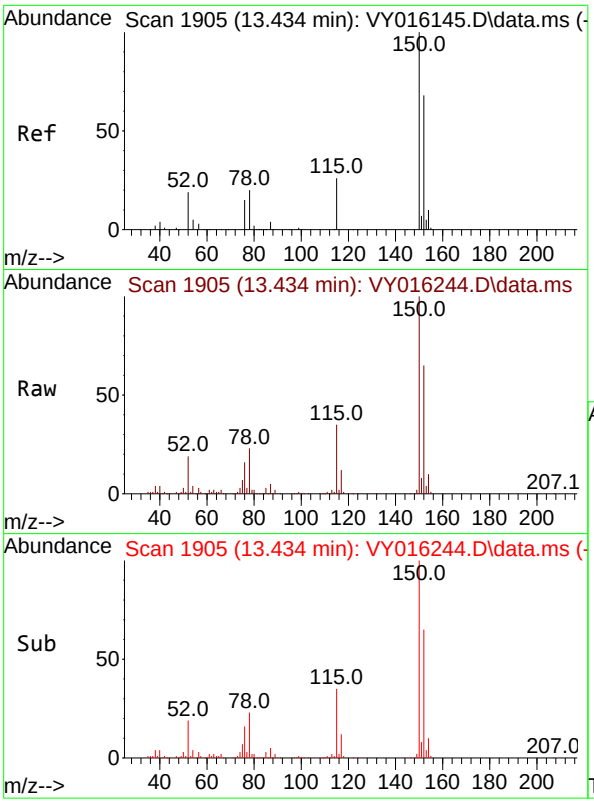




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.496 min Scan# 1587
Delta R.T. -0.006 min
Lab File: VY016244.D
Acq: 07 Nov 2023 09:31

Tgt Ion:117 Resp: 181795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.6 | 43.4 | 65.0 |
| 119 | 32.2 | 26.3 | 39.5 |



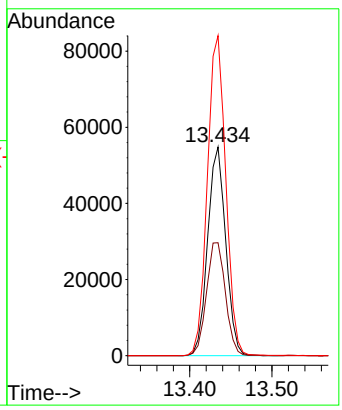



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY016244.D
Acq: 07 Nov 2023 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1107SBL01

Tgt Ion:152 Resp: 83712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.9 | 28.8 | 86.5 |
| 150 | 156.4 | 0.0 | 348.8 |



Sample Results: **VY016244.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016244.D
Acq On : 07 Nov 2023 09:31
Operator : SY/MD
Sample : VY1107SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1107SBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Title : SW846 8260

Signal : TIC: VY016244.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.723 | 465 | 476 | 492 | rVB2 | 12811 | 40258 | 7.00% | 1.209% |
| 2 | 5.759 | 637 | 646 | 658 | rVB3 | 5767 | 17460 | 3.04% | 0.524% |
| 3 | 7.728 | 960 | 969 | 974 | rBV | 76797 | 182195 | 31.68% | 5.473% |
| 4 | 7.795 | 974 | 980 | 993 | rVB | 135465 | 308698 | 53.67% | 9.273% |
| 5 | 8.149 | 1026 | 1038 | 1047 | rBV2 | 81806 | 191064 | 33.22% | 5.739% |
| 6 | 8.697 | 1120 | 1128 | 1139 | rBV | 216803 | 423866 | 73.70% | 12.733% |
| 7 | 9.758 | 1296 | 1302 | 1308 | rVB2 | 4568 | 9375 | 1.63% | 0.282% |
| 8 | 10.185 | 1365 | 1372 | 1380 | rBV | 332192 | 575150 | 100.00% | 17.277% |
| 9 | 10.587 | 1430 | 1438 | 1445 | rBV | 30217 | 55058 | 9.57% | 1.654% |
| 10 | 11.325 | 1553 | 1559 | 1567 | rVB2 | 9072 | 14672 | 2.55% | 0.441% |
| 11 | 11.496 | 1580 | 1587 | 1601 | rVB | 324914 | 528277 | 91.85% | 15.869% |
| 12 | 12.343 | 1720 | 1726 | 1731 | rBV4 | 3837 | 6027 | 1.05% | 0.181% |
| 13 | 12.489 | 1743 | 1750 | 1763 | rVB2 | 279692 | 444017 | 77.20% | 13.338% |
| 14 | 13.190 | 1860 | 1865 | 1872 | rVB3 | 7107 | 12525 | 2.18% | 0.376% |
| 15 | 13.434 | 1896 | 1905 | 1912 | rBV | 312331 | 492046 | 85.55% | 14.781% |
| 16 | 13.965 | 1988 | 1992 | 1999 | rVB2 | 5927 | 9844 | 1.71% | 0.296% |
| 17 | 15.324 | 2208 | 2215 | 2221 | rVB | 11278 | 18476 | 3.21% | 0.555% |

Sum of corrected areas: 3329008

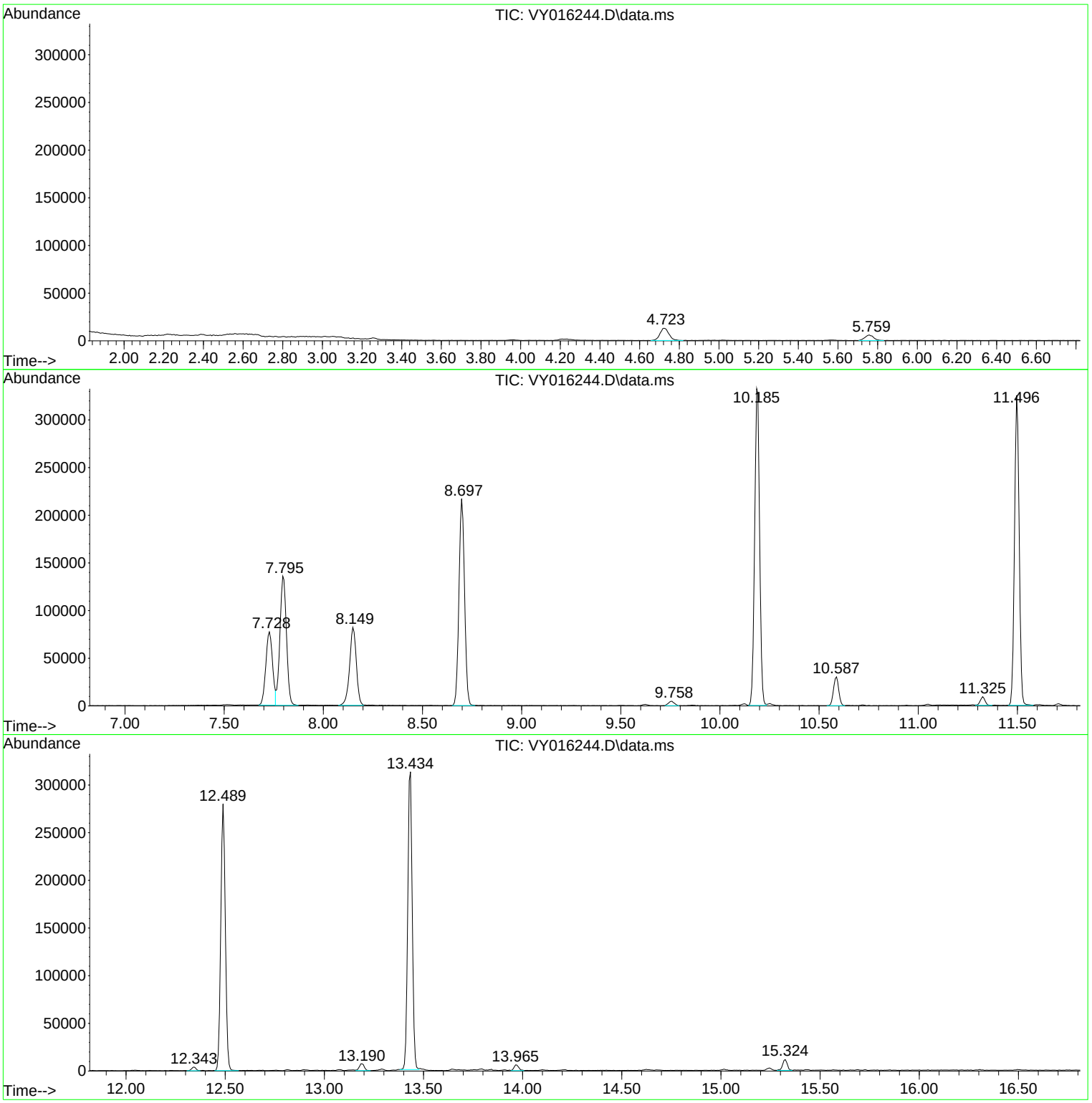
Sample Results: **VY016244.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016244.D
Acq On : 07 Nov 2023 09:31
Operator : SY/MD
Sample : VY1107SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1107SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Sample Results: **VY016244.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016244.D
Acq On : 07 Nov 2023 09:31
Operator : SY/MD
Sample : VY1107SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1107SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016244.D
Acq On : 07 Nov 2023 09:31
Operator : SY/MD
Sample : VY1107SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1107SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

Raw Data: **VY016245.D**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RMJ Environomics, Inc. | Date Collected: | |
| Project: | 245 Greenwood Ave | Date Received: | |
| Client Sample ID: | VY1107SBS01 | SDG No.: | O5252 |
| Lab Sample ID: | VY1107SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY016245.D | 1 | | 11/07/23 10:08 | VY110723 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 17.9 | | 1.60 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 15.9 | | 0.91 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 17.4 | | 0.93 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 17.3 | | 1.20 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 17.8 | | 0.88 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 20.0 | | 1.10 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 20.8 | | 0.72 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 19.4 | | 0.79 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 96.7 | | 9.40 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 15.1 | | 2.20 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 21.3 | | 0.65 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 22.0 | | 1.60 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 20.0 | | 6.10 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 19.0 | | 0.73 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 21.0 | | 0.72 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 18.2 | | 0.70 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 110 | | 7.30 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 21.3 | | 0.78 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 20.4 | | 0.64 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 19.6 | | 2.40 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 21.3 | | 1.30 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 20.3 | | 0.76 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 18.1 | | 3.40 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 19.1 | | 0.66 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 19.8 | | 0.72 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 19.1 | | 0.66 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 21.0 | | 0.59 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 21.0 | | 0.70 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 110 | | 4.50 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 19.4 | | 0.65 | 5.00 | ug/Kg |
| 10061-02-6 | t-1,3-Dichloropropene | 20.5 | | 0.77 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.3 | | 0.74 | 5.00 | ug/Kg |

Raw Data: **VY016245.D**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RMJ Environomics, Inc. | Date Collected: | |
| Project: | 245 Greenwood Ave | Date Received: | |
| Client Sample ID: | VY1107SBS01 | SDG No.: | O5252 |
| Lab Sample ID: | VY1107SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY016245.D | 1 | | 11/07/23 10:08 | VY110723 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | 21.3 | | 0.86 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 110 | | 5.30 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 20.9 | | 0.85 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 20.7 | | 0.79 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 18.4 | | 0.77 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 20.0 | | 0.63 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 19.7 | | 0.67 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 39.1 | | 1.40 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 19.5 | | 0.77 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 19.7 | | 0.69 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 21.5 | | 0.95 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 20.1 | | 0.71 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 22.6 | | 1.10 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 20.3 | | 0.68 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 19.8 | | 0.60 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 20.3 | | 0.60 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 20.0 | | 1.20 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 18.8 | | 0.61 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 18.3 | | 0.63 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.3 | | 70 (50) - 130 (163) | 105% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.2 | | 70 (54) - 130 (147) | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.0 | | 70 (58) - 130 (134) | 100% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 48.4 | | 70 (39) - 130 (149) | 97% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 170000 | 7.795 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 275000 | 8.697 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 238000 | 11.496 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 111000 | 13.434 | | | |

Raw Data: **VY016245.D**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RMJ Environomics, Inc. | Date Collected: | |
| Project: | 245 Greenwood Ave | Date Received: | |
| Client Sample ID: | VY1107SBS01 | SDG No.: | O5252 |
| Lab Sample ID: | VY1107SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY016245.D | 1 | | 11/07/23 10:08 | VY110723 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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\VY110723\
Data File : VY016245.D
Acq On : 07 Nov 2023 10:08
Operator : SY/MD
Sample : VY1107SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 07 23:42:23 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1107SBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/08/2023
Supervised By :Mahesh Dadoda 11/08/2023

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.795 | 168 | 169940 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.697 | 114 | 275085 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.496 | 117 | 237625 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.434 | 152 | 111499 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.149 | 65 | 83244 | 52.349 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 104.700% | | | |
| 35) Dibromofluoromethane | 7.722 | 113 | 82365 | 50.223 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.440% | | | |
| 50) Toluene-d8 | 10.185 | 98 | 325208 | 50.015 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 100.040% | | | |
| 62) 4-Bromofluorobenzene | 12.489 | 95 | 107641 | 48.413 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 96.820% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.906 | 85 | 19426 | 17.920 | ug/l | 99 |
| 3) Chloromethane | 2.113 | 50 | 23839 | 15.883 | ug/l | 96 |
| 4) Vinyl Chloride | 2.253 | 62 | 26994 | 17.426 | ug/l | 94 |
| 5) Bromomethane | 2.644 | 94 | 18074 | 17.289 | ug/l | 99 |
| 6) Chloroethane | 2.796 | 64 | 19367 | 17.758 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.131 | 101 | 46866 | 20.040 | ug/l | 99 |
| 8) Diethyl Ether | 3.534 | 74 | 16381 | 21.134 | ug/l | 92 |
| 9) 1,1,2-Trichlorotrifluo... | 3.906 | 101 | 30653 | 20.806 | ug/l | 95 |
| 10) Methyl Iodide | 4.095 | 142 | 28035 | 17.113 | ug/l | 97 |
| 11) Tert butyl alcohol | 4.960 | 59 | 14240 | 119.855 | ug/l # | 82 |
| 12) 1,1-Dichloroethene | 3.875 | 96 | 26051 | 19.373 | ug/l | 88 |
| 13) Acrolein | 3.735 | 56 | 12325 | 108.136 | ug/l | 99 |
| 14) Allyl chloride | 4.485 | 41 | 39704 | 20.642 | ug/l # | 94 |
| 15) Acrylonitrile | 5.162 | 53 | 37020 | 111.772 | ug/l | 99 |
| 16) Acetone | 3.948 | 43 | 27523 | 96.728 | ug/l | 98 |
| 17) Carbon Disulfide | 4.198 | 76 | 50792 | 15.129 | ug/l | 98 |
| 18) Methyl Acetate | 4.479 | 43 | 28115 | 21.985 | ug/l # | 89 |
| 19) Methyl tert-butyl Ether | 5.235 | 73 | 81342 | 21.266 | ug/l | 98 |
| 20) Methylene Chloride | 4.723 | 84 | 35358 | 20.036 | ug/l | 89 |
| 21) trans-1,2-Dichloroethene | 5.229 | 96 | 29741 | 18.988 | ug/l | 92 |
| 22) Diisopropyl ether | 6.125 | 45 | 99764 | 21.444 | ug/l | 89 |
| 23) Vinyl Acetate | 6.064 | 43 | 242641 | 106.228 | ug/l # | 94 |
| 24) 1,1-Dichloroethane | 6.021 | 63 | 58358 | 20.960 | ug/l | 98 |
| 25) 2-Butanone | 6.990 | 43 | 47585 | 108.464 | ug/l | 90 |
| 26) 2,2-Dichloropropane | 6.990 | 77 | 53557 | 20.348 | ug/l | 96 |
| 27) cis-1,2-Dichloroethene | 6.990 | 96 | 37539 | 20.365 | ug/l | 94 |
| 28) Bromochloromethane | 7.338 | 49 | 20405 | 19.584 | ug/l | 87 |
| 29) Tetrahydrofuran | 7.356 | 42 | 30593 | 111.242 | ug/l | 88 |
| 30) Chloroform | 7.509 | 83 | 64563 | 21.299 | ug/l | 100 |
| 31) Cyclohexane | 7.789 | 56 | 44409 | 18.167 | ug/l # | 80 |
| 32) 1,1,1-Trichloroethane | 7.710 | 97 | 56312 | 20.256 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 7.923 | 75 | 44486 | 18.785 | ug/l | 99 |
| 37) Ethyl Acetate | 7.082 | 43 | 22806 | 21.622 | ug/l # | 96 |
| 38) Carbon Tetrachloride | 7.905 | 117 | 49996 | 21.310 | ug/l | 98 |
| 39) Methylcyclohexane | 9.191 | 83 | 51146 | 18.094 | ug/l | 93 |
| 40) Benzene | 8.167 | 78 | 130087 | 19.134 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016245.D
Acq On : 07 Nov 2023 10:08
Operator : SY/MD
Sample : VY1107SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 07 23:42:23 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1107SBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/08/2023
Supervised By :Mahesh Dadoda 11/08/2023

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.320 | 41 | 13441 | 21.954 | ug/l | # | 86 |
| 42) 1,2-Dichloroethane | 8.240 | 62 | 37614 | 19.825 | ug/l | | 94 |
| 43) Isopropyl Acetate | 8.277 | 43 | 44322 | 21.244 | ug/l | # | 93 |
| 44) Trichloroethene | 8.947 | 130 | 37988 | 19.094 | ug/l | | 97 |
| 45) 1,2-Dichloropropane | 9.222 | 63 | 34340 | 20.997 | ug/l | | 96 |
| 46) Dibromomethane | 9.307 | 93 | 18983 | 20.461 | ug/l | | 96 |
| 47) Bromodichloromethane | 9.502 | 83 | 49460 | 20.982 | ug/l | | 96 |
| 48) Methyl methacrylate | 9.301 | 41 | 18862 | 19.882 | ug/l | # | 86 |
| 49) 1,4-Dioxane | 9.307 | 88 | 4841 | 364.880 | ug/l | # | 67 |
| 51) 4-Methyl-2-Pentanone | 10.075 | 43 | 114176 | 109.677 | ug/l | | 91 |
| 52) Toluene | 10.252 | 92 | 85533 | 19.415 | ug/l | | 94 |
| 53) t-1,3-Dichloropropene | 10.472 | 75 | 48282 | 20.518 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.935 | 75 | 55985 | 20.275 | ug/l | | 90 |
| 55) 1,1,2-Trichloroethane | 10.648 | 97 | 27848 | 21.339 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.514 | 69 | 34963 | 20.629 | ug/l | # | 86 |
| 57) 1,3-Dichloropropane | 10.795 | 76 | 46336 | 20.856 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.789 | 63 | 87916 | 106.974 | ug/l | | 94 |
| 59) 2-Hexanone | 10.837 | 43 | 80200 | 112.424 | ug/l | | 91 |
| 60) Dibromochloromethane | 10.990 | 129 | 34243 | 20.915 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.093 | 107 | 25705 | 20.708 | ug/l | | 97 |
| 64) Tetrachloroethene | 10.728 | 164 | 38821 | 18.367 | ug/l | | 95 |
| 65) Chlorobenzene | 11.520 | 112 | 94284 | 19.971 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.599 | 131 | 36188 | 20.695 | ug/l | | 96 |
| 67) Ethyl Benzene | 11.599 | 91 | 166149 | 19.676 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.709 | 106 | 127656 | 39.123 | ug/l | | 94 |
| 69) o-Xylene | 12.038 | 106 | 60698 | 19.483 | ug/l | | 97 |
| 70) Styrene | 12.051 | 104 | 101835 | 19.663 | ug/l | | 96 |
| 71) Bromoform | 12.215 | 173 | 20865 | 21.509 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.337 | 105 | 167894 | 20.074 | ug/l | | 99 |
| 74) N-amyl acetate | 12.148 | 43 | 37343 | 20.546 | ug/l | # | 90 |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83 | 30023 | 22.559 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.636 | 75 | 20189m | 19.228 | ug/l | | |
| 77) Bromobenzene | 12.618 | 156 | 38382 | 20.267 | ug/l | | 96 |
| 78) n-propylbenzene | 12.678 | 91 | 200334 | 20.260 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.764 | 91 | 110459 | 20.028 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.819 | 105 | 134785 | 19.891 | ug/l | | 97 |
| 81) trans-1,4-Dichloro-2-b... | 12.386 | 75 | 10228 | 21.121 | ug/l | | 94 |
| 82) 4-Chlorotoluene | 12.861 | 91 | 112298 | 19.829 | ug/l | | 98 |
| 83) tert-Butylbenzene | 13.081 | 119 | 124687 | 20.565 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.130 | 105 | 132229 | 19.721 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.264 | 105 | 182828 | 20.545 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.380 | 119 | 150141 | 20.357 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.373 | 146 | 76194 | 20.343 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.453 | 146 | 73225 | 19.780 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.703 | 91 | 137710 | 20.321 | ug/l | | 97 |
| 90) Hexachloroethane | 13.971 | 117 | 28630 | 22.526 | ug/l | | 90 |
| 91) 1,2-Dichlorobenzene | 13.745 | 146 | 65751 | 20.318 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75 | 4766 | 20.010 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 15.020 | 180 | 37508 | 18.778 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.123 | 225 | 22586 | 20.693 | ug/l | | 97 |
| 95) Naphthalene | 15.245 | 128 | 68341 | 17.612 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.434 | 180 | 31226 | 18.301 | ug/l | | 99 |

Sample Results: **VY016245.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016245.D
Acq On : 07 Nov 2023 10:08
Operator : SY/MD
Sample : VY1107SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 07 23:42:23 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1107SBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/08/2023
Supervised By :Mahesh Dadoda 11/08/2023

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

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

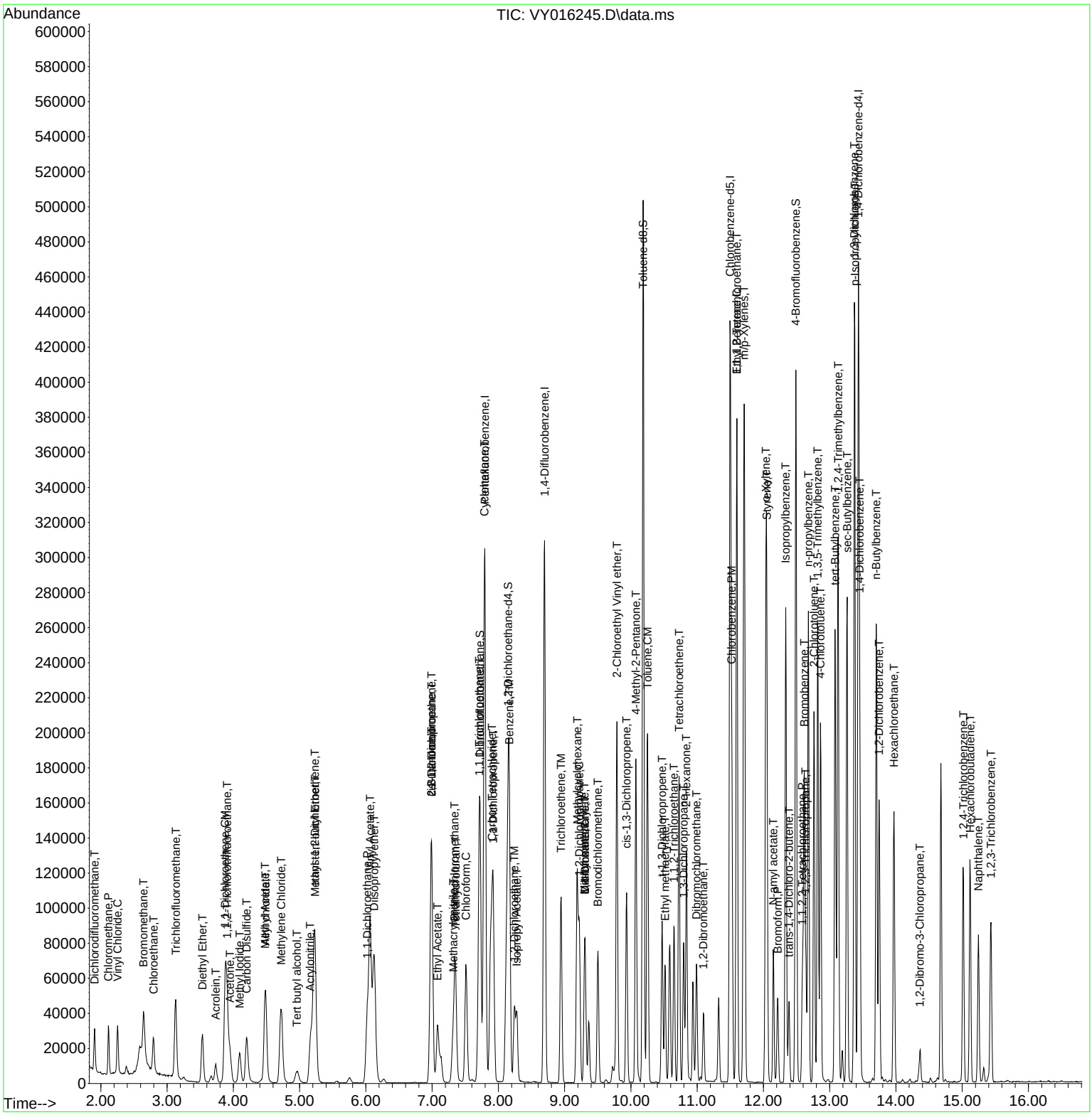
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016245.D
Acq On : 07 Nov 2023 10:08
Operator : SY/MD
Sample : VY1107SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 07 23:42:23 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1107SBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/08/2023
Supervised By :Mahesh Dadoda 11/08/2023



Raw Data: **VY016246.D**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RMJ Environomics, Inc. | Date Collected: | |
| Project: | 245 Greenwood Ave | Date Received: | |
| Client Sample ID: | VY1107SBSD01 | SDG No.: | O5252 |
| Lab Sample ID: | VY1107SBSD01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY016246.D | 1 | | 11/07/23 10:31 | VY110723 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 17.9 | | 1.60 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 16.7 | | 0.91 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 18.6 | | 0.93 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 18.7 | | 1.20 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 18.8 | | 0.88 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 21.0 | | 1.10 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 21.0 | | 0.72 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 19.8 | | 0.79 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 95.6 | | 9.40 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 15.7 | | 2.20 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 22.0 | | 0.65 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 22.3 | | 1.60 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 21.4 | | 6.10 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 19.9 | | 0.73 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 21.7 | | 0.72 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 18.6 | | 0.70 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 110 | | 7.30 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 21.3 | | 0.78 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 21.6 | | 0.64 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 21.2 | | 2.40 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 21.7 | | 1.30 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 21.0 | | 0.76 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 17.9 | | 3.40 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 19.9 | | 0.66 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 20.3 | | 0.72 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 19.6 | | 0.66 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 21.2 | | 0.59 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 21.5 | | 0.70 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 110 | | 4.50 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 19.9 | | 0.65 | 5.00 | ug/Kg |
| 10061-02-6 | t-1,3-Dichloropropene | 20.9 | | 0.77 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.9 | | 0.74 | 5.00 | ug/Kg |

Raw Data: **VY016246.D**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RMJ Environomics, Inc. | Date Collected: | |
| Project: | 245 Greenwood Ave | Date Received: | |
| Client Sample ID: | VY1107SBSD01 | SDG No.: | O5252 |
| Lab Sample ID: | VY1107SBSD01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY016246.D | 1 | | 11/07/23 10:31 | VY110723 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | 21.3 | | 0.86 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 110 | | 5.30 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 21.6 | | 0.85 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 20.8 | | 0.79 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 18.6 | | 0.77 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 20.2 | | 0.63 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 20.1 | | 0.67 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 39.7 | | 1.40 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 20.2 | | 0.77 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 20.0 | | 0.69 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 21.3 | | 0.95 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 20.3 | | 0.71 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 22.4 | | 1.10 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 20.9 | | 0.68 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 20.9 | | 0.60 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 21.2 | | 0.60 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 21.3 | | 1.20 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 20.8 | | 0.61 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 20.6 | | 0.63 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.4 | | 70 (50) - 130 (163) | 107% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.2 | | 70 (54) - 130 (147) | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.8 | | 70 (58) - 130 (134) | 102% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.1 | | 70 (39) - 130 (149) | 100% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 161000 | 7.795 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 264000 | 8.697 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 230000 | 11.496 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 109000 | 13.428 | | | |

Raw Data: **VY016246.D**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RMJ Environomics, Inc. | Date Collected: | |
| Project: | 245 Greenwood Ave | Date Received: | |
| Client Sample ID: | VY1107SBSD01 | SDG No.: | O5252 |
| Lab Sample ID: | VY1107SBSD01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY016246.D | 1 | | 11/07/23 10:31 | VY110723 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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\VY110723\
Data File : VY016246.D
Acq On : 07 Nov 2023 10:31
Operator : SY/MD
Sample : VY1107SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 07 23:43:15 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1107SBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/08/2023
Supervised By :Mahesh Dadoda 11/08/2023

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.795 | 168 | 160601 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.697 | 114 | 263538 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.496 | 117 | 230283 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.428 | 152 | 109001 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.149 | 65 | 80176 | 53.351 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 106.700% | | | |
| 35) Dibromofluoromethane | 7.728 | 113 | 78919 | 50.231 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.460% | | | |
| 50) Toluene-d8 | 10.185 | 98 | 316507 | 50.810 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 101.620% | | | |
| 62) 4-Bromofluorobenzene | 12.483 | 95 | 106755 | 50.118 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 100.240% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.906 | 85 | 18351 | 17.913 | ug/l | 89 |
| 3) Chloromethane | 2.119 | 50 | 23636 | 16.664 | ug/l | 98 |
| 4) Vinyl Chloride | 2.253 | 62 | 27166 | 18.557 | ug/l | 96 |
| 5) Bromomethane | 2.650 | 94 | 18458 | 18.683 | ug/l | 97 |
| 6) Chloroethane | 2.796 | 64 | 19383 | 18.807 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.131 | 101 | 46494 | 21.037 | ug/l | 97 |
| 8) Diethyl Ether | 3.534 | 74 | 15679 | 21.405 | ug/l | 87 |
| 9) 1,1,2-Trichlorotrifluo... | 3.906 | 101 | 29250 | 21.008 | ug/l | 96 |
| 10) Methyl Iodide | 4.095 | 142 | 28775 | 18.586 | ug/l | 95 |
| 11) Tert butyl alcohol | 4.960 | 59 | 12725 | 113.331 | ug/l # | 78 |
| 12) 1,1-Dichloroethene | 3.881 | 96 | 25157 | 19.796 | ug/l | 91 |
| 13) Acrolein | 3.741 | 56 | 12281 | 114.488 | ug/l | 99 |
| 14) Allyl chloride | 4.485 | 41 | 39531 | 21.748 | ug/l # | 94 |
| 15) Acrylonitrile | 5.174 | 53 | 36151 | 115.495 | ug/l | 96 |
| 16) Acetone | 3.954 | 43 | 25754 | 95.571 | ug/l | 94 |
| 17) Carbon Disulfide | 4.204 | 76 | 49880 | 15.722 | ug/l | 99 |
| 18) Methyl Acetate | 4.479 | 43 | 26911 | 22.267 | ug/l | 91 |
| 19) Methyl tert-butyl Ether | 5.235 | 73 | 79471 | 21.985 | ug/l | 99 |
| 20) Methylene Chloride | 4.729 | 84 | 35432 | 21.441 | ug/l | 88 |
| 21) trans-1,2-Dichloroethene | 5.228 | 96 | 29486 | 19.919 | ug/l | 95 |
| 22) Diisopropyl ether | 6.125 | 45 | 97630 | 22.206 | ug/l | 92 |
| 23) Vinyl Acetate | 6.070 | 43 | 235986 | 109.322 | ug/l # | 93 |
| 24) 1,1-Dichloroethane | 6.027 | 63 | 57056 | 21.684 | ug/l | 98 |
| 25) 2-Butanone | 6.990 | 43 | 45782 | 110.423 | ug/l # | 88 |
| 26) 2,2-Dichloropropane | 6.990 | 77 | 51887 | 20.860 | ug/l | 95 |
| 27) cis-1,2-Dichloroethene | 6.996 | 96 | 37654 | 21.615 | ug/l | 91 |
| 28) Bromochloromethane | 7.344 | 49 | 20917 | 21.243 | ug/l | 89 |
| 29) Tetrahydrofuran | 7.356 | 42 | 29840 | 114.814 | ug/l | 90 |
| 30) Chloroform | 7.515 | 83 | 62243 | 21.727 | ug/l | 99 |
| 31) Cyclohexane | 7.795 | 56 | 43050 | 18.635 | ug/l # | 86 |
| 32) 1,1,1-Trichloroethane | 7.710 | 97 | 55212 | 21.015 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 7.923 | 75 | 43928 | 19.363 | ug/l | 100 |
| 37) Ethyl Acetate | 7.082 | 43 | 21771 | 21.545 | ug/l | 96 |
| 38) Carbon Tetrachloride | 7.911 | 117 | 47928 | 21.324 | ug/l | 98 |
| 39) Methylcyclohexane | 9.191 | 83 | 48598 | 17.946 | ug/l | 92 |
| 40) Benzene | 8.167 | 78 | 129431 | 19.872 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016246.D
Acq On : 07 Nov 2023 10:31
Operator : SY/MD
Sample : VY1107SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 07 23:43:15 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1107SBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/08/2023
Supervised By :Mahesh Dadoda 11/08/2023

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.313 | 41 | 11857m | 20.215 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.246 | 62 | 36910 | 20.307 | ug/l | | 94 |
| 43) Isopropyl Acetate | 8.277 | 43 | 43164 | 21.595 | ug/l | # | 92 |
| 44) Trichloroethene | 8.947 | 130 | 37388 | 19.616 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.222 | 63 | 33192 | 21.184 | ug/l | | 94 |
| 46) Dibromomethane | 9.313 | 93 | 18567 | 20.889 | ug/l | | 96 |
| 47) Bromodichloromethane | 9.502 | 83 | 48602 | 21.522 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.301 | 41 | 17817 | 19.603 | ug/l | # | 87 |
| 49) 1,4-Dioxane | 9.307 | 88 | 4273 | 325.850 | ug/l | # | 58 |
| 51) 4-Methyl-2-Pentanone | 10.075 | 43 | 111058 | 111.356 | ug/l | | 91 |
| 52) Toluene | 10.246 | 92 | 84155 | 19.939 | ug/l | | 95 |
| 53) t-1,3-Dichloropropene | 10.471 | 75 | 47216 | 20.944 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.935 | 75 | 55374 | 20.933 | ug/l | | 89 |
| 55) 1,1,2-Trichloroethane | 10.648 | 97 | 26629 | 21.299 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.514 | 69 | 34744 | 21.398 | ug/l | # | 85 |
| 57) 1,3-Dichloropropane | 10.795 | 76 | 44583 | 20.946 | ug/l | | 97 |
| 58) 2-Chloroethyl Vinyl ether | 9.789 | 63 | 85213 | 108.228 | ug/l | | 92 |
| 59) 2-Hexanone | 10.837 | 43 | 77155 | 112.894 | ug/l | | 90 |
| 60) Dibromochloromethane | 10.990 | 129 | 33935 | 21.635 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.093 | 107 | 24732 | 20.797 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.727 | 164 | 38162 | 18.631 | ug/l | | 98 |
| 65) Chlorobenzene | 11.520 | 112 | 92316 | 20.178 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131 | 35873 | 21.169 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.599 | 91 | 164828 | 20.142 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.709 | 106 | 125647 | 39.735 | ug/l | | 95 |
| 69) o-Xylene | 12.032 | 106 | 61012 | 20.208 | ug/l | | 95 |
| 70) Styrene | 12.050 | 104 | 100614 | 20.046 | ug/l | | 97 |
| 71) Bromoform | 12.215 | 173 | 20044 | 21.321 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.331 | 105 | 166123 | 20.317 | ug/l | | 99 |
| 74) N-amyl acetate | 12.148 | 43 | 37203 | 20.938 | ug/l | # | 89 |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83 | 29087 | 22.356 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.636 | 75 | 21169m | 20.623 | ug/l | | |
| 77) Bromobenzene | 12.611 | 156 | 38076 | 20.566 | ug/l | | 95 |
| 78) n-propylbenzene | 12.672 | 91 | 199023 | 20.588 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.758 | 91 | 110412 | 20.479 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.819 | 105 | 134131 | 20.248 | ug/l | | 97 |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75 | 9914 | 20.941 | ug/l | | 94 |
| 82) 4-Chlorotoluene | 12.855 | 91 | 113660 | 20.530 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.081 | 119 | 123548 | 20.844 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.123 | 105 | 132704 | 20.245 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.258 | 105 | 181850 | 20.904 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.373 | 119 | 146572 | 20.329 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.367 | 146 | 76357 | 20.853 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.447 | 146 | 75781 | 20.940 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.696 | 91 | 139116 | 20.999 | ug/l | | 96 |
| 90) Hexachloroethane | 13.965 | 117 | 28101 | 22.617 | ug/l | | 89 |
| 91) 1,2-Dichlorobenzene | 13.745 | 146 | 66985 | 21.173 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75 | 4953 | 21.271 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 15.013 | 180 | 40611 | 20.798 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.111 | 225 | 23548 | 22.069 | ug/l | | 99 |
| 95) Naphthalene | 15.239 | 128 | 75458 | 19.892 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.428 | 180 | 34352 | 20.594 | ug/l | | 99 |

Sample Results: **VY016246.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016246.D
Acq On : 07 Nov 2023 10:31
Operator : SY/MD
Sample : VY1107SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 07 23:43:15 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1107SBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/08/2023
Supervised By :Mahesh Dadoda 11/08/2023

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

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

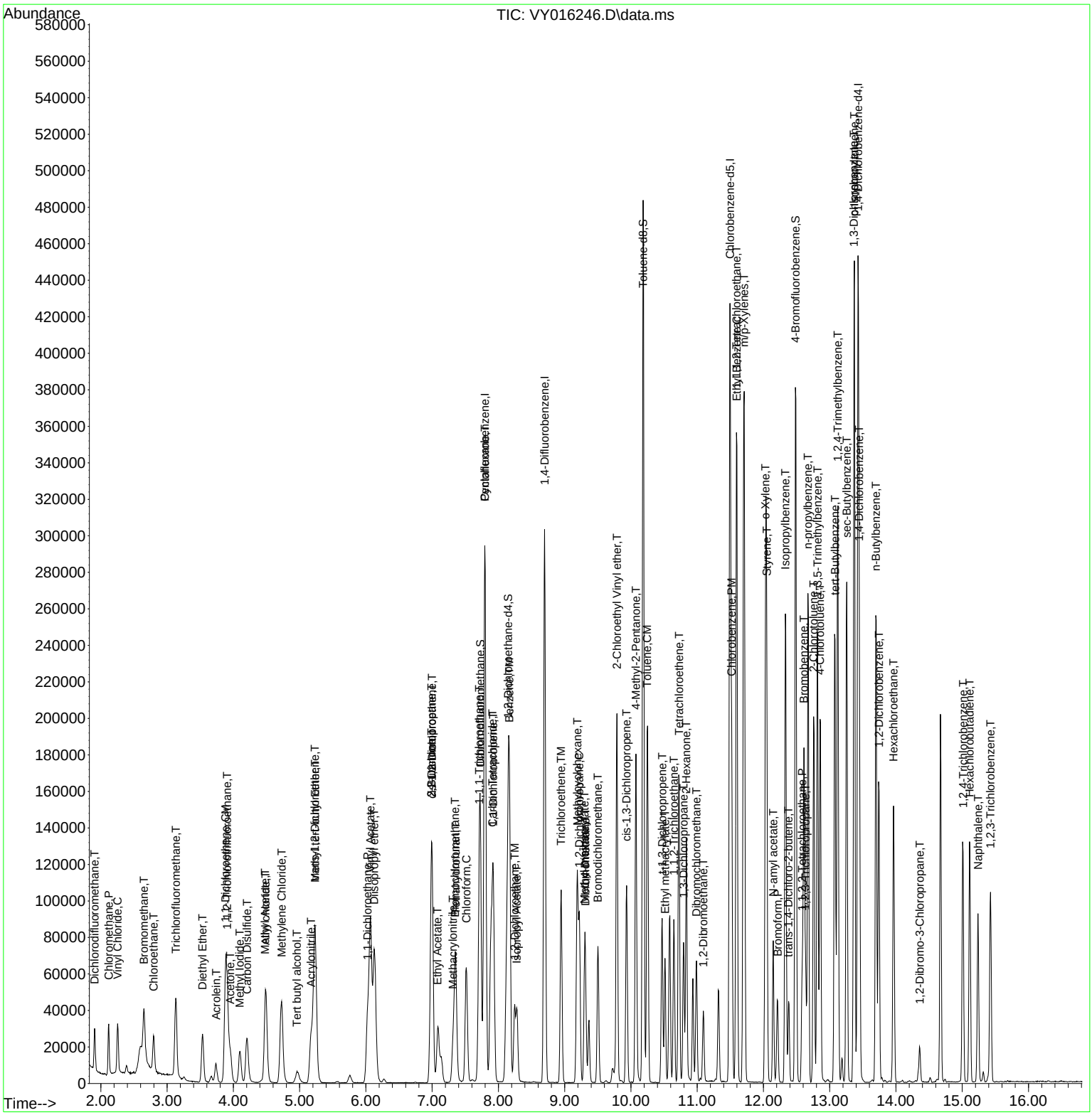
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110723\
Data File : VY016246.D
Acq On : 07 Nov 2023 10:31
Operator : SY/MD
Sample : VY1107SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 07 23:43:15 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1107SBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/08/2023
Supervised By :Mahesh Dadoda 11/08/2023



CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# Manual Integration Report

| Sequence: | vy103123 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC005 | VY016142.D | 1,2,3-Trichloropropane | JOHN | 11/1/2023 10:03:56 AM | MMDadoda | 11/1/2023 4:44:48 PM | Peak Integrated by Software |
| VSTDICC010 | VY016143.D | 1,2,3-Trichloropropane | JOHN | 11/1/2023 10:04:03 AM | MMDadoda | 11/1/2023 4:44:50 PM | Peak Integrated by Software |
| VSTDICC020 | VY016144.D | 1,2,3-Trichloropropane | JOHN | 11/1/2023 10:04:08 AM | MMDadoda | 11/1/2023 4:44:51 PM | Peak Integrated by Software |
| VSTDICCC050 | VY016145.D | 1,2,3-Trichloropropane | JOHN | 11/1/2023 10:04:14 AM | MMDadoda | 11/1/2023 4:44:53 PM | Peak Integrated by Software |
| VSTDICC100 | VY016146.D | 1,2,3-Trichloropropane | JOHN | 11/1/2023 10:04:21 AM | MMDadoda | 11/1/2023 4:44:54 PM | Peak Integrated by Software |
| VSTDICC150 | VY016147.D | 1,2,3-Trichloropropane | JOHN | 11/1/2023 10:04:28 AM | MMDadoda | 11/1/2023 4:44:55 PM | Peak Integrated by Software |
| VSTDICV050 | VY016148.D | 1,2,3-Trichloropropane | JOHN | 11/1/2023 10:04:34 AM | MMDadoda | 11/1/2023 4:44:57 PM | Peak Integrated by Software |
| VSTDCCC050 | VY016156.D | 1,2,3-Trichloropropane | JOHN | 11/1/2023 10:05:06 AM | MMDadoda | 11/1/2023 4:45:05 PM | Peak Integrated by Software |
| VSTDCCC050 | VY016156.D | Methacrylonitrile | JOHN | 11/1/2023 10:05:06 AM | MMDadoda | 11/1/2023 4:45:05 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VY110723 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VY016243.D | 1,2,3-Trichloropropane | JOHN | 11/8/2023 11:47:33 AM | MMDadoda | 11/8/2023 3:22:09 PM | Peak Integrated by Software |
| VY1107SBS01 | VY016245.D | 1,2,3-Trichloropropane | JOHN | 11/8/2023 11:47:40 AM | MMDadoda | 11/8/2023 3:22:11 PM | Peak Integrated by Software |
| VY1107SBSD01 | VY016246.D | 1,2,3-Trichloropropane | JOHN | 11/8/2023 11:47:45 AM | MMDadoda | 11/8/2023 3:22:13 PM | Peak Integrated by Software |
| VY1107SBSD01 | VY016246.D | Methacrylonitrile | JOHN | 11/8/2023 11:47:45 AM | MMDadoda | 11/8/2023 3:22:13 PM | Peak Integrated by Software |
| VSTDCCC050 | VY016251.D | 1,2,3-Trichloropropane | JOHN | 11/8/2023 11:47:51 AM | MMDadoda | 11/8/2023 3:22:14 PM | Peak Integrated by Software |

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY103123

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 11/1/2023 10:05:25 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 11/1/2023 4:45:21 PM | | |
| SubDirectory | VY103123 | HP Acquire Method | | HP Processing Method | 82y103123s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP123921 |
| Initial Calibration Stds | VP123922,VP123923,VP123924,VP123925,VP123926,VP123927 |
| CCC | VP123940,VP123941,LOD-VP123954,VP123955 |
| Internal Standard/PEM | VP123883 |
| ICV/I.BLK | VP123930 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY016140.D | 31 Oct 2023 08:42 | SY/MD | Ok |
| 2 | VSTDCCC050 | VY016141.D | 31 Oct 2023 09:54 | SY/MD | Not Ok |
| 3 | VSTDICC005 | VY016142.D | 31 Oct 2023 12:26 | SY/MD | Ok,M |
| 4 | VSTDICC010 | VY016143.D | 31 Oct 2023 12:49 | SY/MD | Ok,M |
| 5 | VSTDICC020 | VY016144.D | 31 Oct 2023 13:12 | SY/MD | Ok,M |
| 6 | VSTDICCC050 | VY016145.D | 31 Oct 2023 13:37 | SY/MD | Ok,M |
| 7 | VSTDICC100 | VY016146.D | 31 Oct 2023 14:13 | SY/MD | Ok,M |
| 8 | VSTDICC150 | VY016147.D | 31 Oct 2023 14:40 | SY/MD | Ok,M |
| 9 | VSTDICV050 | VY016148.D | 31 Oct 2023 15:03 | SY/MD | Ok,M |
| 10 | VY1031SBL01 | VY016149.D | 31 Oct 2023 16:28 | SY/MD | Ok |
| 11 | VY1031SBS01 | VY016150.D | 31 Oct 2023 16:51 | SY/MD | Ok,M |
| 12 | VY1031SBSD01 | VY016151.D | 31 Oct 2023 17:13 | SY/MD | Ok,M |
| 13 | O4699-01 2.5PPB | VY016152.D | 31 Oct 2023 17:36 | SY/MD | Ok,M |
| 14 | O4699-01 4.0PPB | VY016153.D | 31 Oct 2023 17:59 | SY/MD | Ok,M |
| 15 | O5136-01 | VY016154.D | 31 Oct 2023 18:23 | SY/MD | Ok |
| 16 | O5107-23 | VY016155.D | 31 Oct 2023 18:47 | SY/MD | Ok |
| 17 | VSTDCCC050 | VY016156.D | 31 Oct 2023 19:32 | SY/MD | Ok,M |

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY110723

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 11/8/2023 11:48:05 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 11/8/2023 3:22:06 PM | | |
| SubDirectory | VY110723 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y103123s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP124090 |
| Initial Calibration Stds | |
| CCC | VP124091,VP124092 |
| Internal Standard/PEM | VP123883 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY016242.D | 07 Nov 2023 08:03 | SY/MD | Ok |
| 2 | VSTDCCC050 | VY016243.D | 07 Nov 2023 08:35 | SY/MD | Ok,M |
| 3 | VY1107SBL01 | VY016244.D | 07 Nov 2023 09:31 | SY/MD | Ok |
| 4 | VY1107SBS01 | VY016245.D | 07 Nov 2023 10:08 | SY/MD | Ok,M |
| 5 | VY1107SBSD01 | VY016246.D | 07 Nov 2023 10:31 | SY/MD | Ok,M |
| 6 | O5252-03 | VY016247.D | 07 Nov 2023 11:34 | SY/MD | Ok |
| 7 | BLK | VY016248.D | 07 Nov 2023 12:45 | SY/MD | Ok |
| 8 | O5292-03 | VY016249.D | 07 Nov 2023 16:41 | SY/MD | ReRun |
| 9 | O5291-03 | VY016250.D | 07 Nov 2023 17:04 | SY/MD | Ok |
| 10 | VSTDCCC050 | VY016251.D | 07 Nov 2023 17:27 | SY/MD | Ok,M |

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY103123

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 11/1/2023 10:05:25 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 11/1/2023 4:45:21 PM | | |
| SubDirectory | VY103123 | HP Acquire Method | | HP Processing Method | 82y103123s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP123921 |
| Initial Calibration Stds | VP123922,VP123923,VP123924,VP123925,VP123926,VP123927 |
| CCC | VP123940,VP123941,LOD-VP123954,VP123955 |
| Internal Standard/PEM | VP123883 |
| ICV/I.BLK | VP123930 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY016140.D | 31 Oct 2023 08:42 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VY016141.D | 31 Oct 2023 09:54 | | SY/MD | Not Ok |
| 3 | VSTDICC005 | VSTDICC005 | VY016142.D | 31 Oct 2023 12:26 | Good for DOD | SY/MD | Ok,M |
| 4 | VSTDICC010 | VSTDICC010 | VY016143.D | 31 Oct 2023 12:49 | LR- 13, 16, 20, 49 | SY/MD | Ok,M |
| 5 | VSTDICC020 | VSTDICC020 | VY016144.D | 31 Oct 2023 13:12 | | SY/MD | Ok,M |
| 6 | VSTDICCC050 | VSTDICCC050 | VY016145.D | 31 Oct 2023 13:37 | | SY/MD | Ok,M |
| 7 | VSTDICC100 | VSTDICC100 | VY016146.D | 31 Oct 2023 14:13 | | SY/MD | Ok,M |
| 8 | VSTDICC150 | VSTDICC150 | VY016147.D | 31 Oct 2023 14:40 | | SY/MD | Ok,M |
| 9 | VSTDICV050 | ICVVY103123 | VY016148.D | 31 Oct 2023 15:03 | | SY/MD | Ok,M |
| 10 | VY1031SBL01 | VY1031SBL01 | VY016149.D | 31 Oct 2023 16:28 | | SY/MD | Ok |
| 11 | VY1031SBS01 | VY1031SBS01 | VY016150.D | 31 Oct 2023 16:51 | | SY/MD | Ok,M |
| 12 | VY1031SBSD01 | VY1031SBSD01 | VY016151.D | 31 Oct 2023 17:13 | | SY/MD | Ok,M |
| 13 | O4699-01 2.5PPB | LOD-MDL-SOIL-01-QT | VY016152.D | 31 Oct 2023 17:36 | LOD-2.5 ppb | SY/MD | Ok,M |
| 14 | O4699-01 4.0PPB | LOD-MDL-SOIL-01-QT | VY016153.D | 31 Oct 2023 17:59 | LOD-4.0 ppb | SY/MD | Ok,M |
| 15 | O5136-01 | SLUDGE-COMP | VY016154.D | 31 Oct 2023 18:23 | | SY/MD | Ok |
| 16 | O5107-23 | 1047 | VY016155.D | 31 Oct 2023 18:47 | | SY/MD | Ok |
| 17 | VSTDCCC050 | VSTDCCC050EC | VY016156.D | 31 Oct 2023 19:32 | | SY/MD | Ok,M |

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY110723

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 11/8/2023 11:48:05 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 11/8/2023 3:22:06 PM | | |
| SubDirectory | VY110723 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y103123s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP124090 |
| Initial Calibration Stds | |
| CCC | VP124091,VP124092 |
| Internal Standard/PEM | VP123883 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY016242.D | 07 Nov 2023 08:03 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VY016243.D | 07 Nov 2023 08:35 | | SY/MD | Ok,M |
| 3 | VY1107SBL01 | VY1107SBL01 | VY016244.D | 07 Nov 2023 09:31 | | SY/MD | Ok |
| 4 | VY1107SBS01 | VY1107SBS01 | VY016245.D | 07 Nov 2023 10:08 | | SY/MD | Ok,M |
| 5 | VY1107SBSD01 | VY1107SBSD01 | VY016246.D | 07 Nov 2023 10:31 | | SY/MD | Ok,M |
| 6 | O5252-03 | WASTE-VOC | VY016247.D | 07 Nov 2023 11:34 | Vial-B | SY/MD | Ok |
| 7 | BLK | BLK | VY016248.D | 07 Nov 2023 12:45 | | SY/MD | Ok |
| 8 | O5292-03 | CORONA | VY016249.D | 07 Nov 2023 16:41 | Vial-A Internal standard fail | SY/MD | ReRun |
| 9 | O5291-03 | QUEEN-PLAZA | VY016250.D | 07 Nov 2023 17:04 | Vial-A | SY/MD | Ok |
| 10 | VSTDCCC050 | VSTDCCC050EC | VY016251.D | 07 Nov 2023 17:27 | | SY/MD | Ok,M |

M : Manual Integration

CHEMTECH

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** JIGNESH
**Date:** 11/7/2023

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:25
**In Date:** 11/06/2023
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN-1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:15
**Out Date:** 11/07/2023
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** %SOLIDS-OVEN

**QC:** LB128195

| 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 |
|---|---|---|---|---|---|---|---|---|
| O5102-02 | 67S-SB02-0815 | 89 | 1.15 | 8.58 | 9.73 | 7.6 | 75.2 | |
| O5102-03 | 67S-SB02-2628 | 90 | 1.14 | 8.64 | 9.78 | 6.04 | 56.7 | |
| O5102-04 | 67S-SB04-1419 | 91 | 1.16 | 8.74 | 9.9 | 7.15 | 68.5 | |
| O5102-05 | 67S-SB07-1418 | 92 | 1.15 | 8.81 | 9.96 | 7.55 | 72.6 | |
| O5102-06 | 67S-SB08-1619 | 93 | 1.15 | 8.81 | 9.96 | 9.00 | 89.1 | |
| O5102-07 | 67S-SB09-1314.5 | 94 | 1.19 | 8.79 | 9.98 | 5.8 | 52.4 | |
| O5102-08 | 67S-SB11-1218 | 95 | 1.12 | 8.46 | 9.58 | 8.11 | 82.6 | |
| O5102-09 | 67S-SB11-1218-D | 96 | 1.19 | 8.47 | 9.66 | 8.02 | 80.6 | |
| O5102-10 | 67S-SB14-1216 | 97 | 1.11 | 8.76 | 9.87 | 8.07 | 79.5 | |
| O5102-11 | 67S-SB16-1617 | 98 | 1.17 | 8.55 | 9.72 | 7.46 | 73.6 | |
| O5102-13 | 67-IDW-01 | 99 | 1.13 | 8.52 | 9.65 | 8.02 | 80.9 | |
| O5244-01 | 1A | 1 | 1.14 | 8.63 | 9.77 | 7.54 | 74.2 | |
| O5244-04 | 2A | 2 | 1.18 | 8.48 | 9.66 | 8.15 | 82.2 | |
| O5244-07 | 3A | 3 | 1.16 | 8.50 | 9.66 | 8.22 | 83.1 | |
| O5244-10 | 4A | 4 | 1.19 | 8.78 | 9.97 | 8.58 | 84.2 | |
| O5244-13 | 5A | 5 | 1.11 | 8.47 | 9.58 | 8.47 | 86.9 | |
| O5244-16 | 6A | 6 | 1.19 | 8.71 | 9.9 | 6.99 | 66.6 | |
| O5244-19 | 7A | 7 | 1.19 | 8.79 | 9.98 | 7.01 | 66.2 | |
| O5245-02 | 8A | 8 | 1.16 | 8.48 | 9.64 | 6.25 | 60.0 | |
| O5245-05 | 9A | 9 | 1.19 | 8.55 | 9.74 | 7.21 | 70.4 | |
| O5245-08 | 10A | 10 | 1.13 | 8.67 | 9.8 | 7.04 | 68.2 | |
| O5245-11 | 11A | 11 | 1.16 | 8.68 | 9.84 | 7.72 | 75.6 | |
| O5245-14 | 12A | 12 | 1.15 | 8.83 | 9.98 | 8.19 | 79.7 | |
| O5245-17 | 13A | 13 | 1.14 | 8.68 | 9.82 | 8.6 | 85.9 | |
| O5245-20 | 14A | 14 | 1.19 | 8.79 | 9.98 | 8.86 | 87.3 | |
| O5246-03 | 15A | 15 | 1.18 | 8.64 | 9.82 | 8.47 | 84.4 | |
| O5246-06 | 16A | 16 | 1.13 | 8.84 | 9.97 | 9.00 | 89.0 | |
| O5246-09 | 17A | 17 | 1.16 | 8.80 | 9.96 | 8.81 | 86.9 | |

CHEMTECH

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** JIGNESH
**Date:** 11/7/2023

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:25
**In Date:** 11/06/2023
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN-1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:15
**Out Date:** 11/07/2023
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** %SOLIDS-OVEN

**QC:** LB128195

| 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 |
|---|---|---|---|---|---|---|---|---|
| O5246-12 | 18A | 18 | 1.13 | 8.75 | 9.88 | 8.64 | 85.8 | |
| O5246-15 | 19A | 19 | 1.18 | 8.50 | 9.68 | 8.56 | 86.8 | |
| O5246-18 | 20B | 20 | 1.18 | 8.78 | 9.96 | 7.48 | 71.8 | |
| O5247-01 | 21B | 21 | 1.18 | 8.46 | 9.64 | 8.2 | 83.0 | |
| O5247-04 | 22B | 22 | 1.18 | 8.79 | 9.97 | 8.7 | 85.6 | |
| O5247-07 | 23B | 23 | 1.15 | 8.80 | 9.95 | 8.51 | 83.6 | |
| O5247-10 | 24B | 24 | 1.18 | 8.41 | 9.59 | 8.37 | 85.5 | |
| O5247-13 | 25B | 25 | 1.14 | 8.65 | 9.79 | 8.84 | 89.0 | |
| O5247-16 | 26A | 26 | 1.17 | 8.57 | 9.74 | 8.42 | 84.6 | |
| O5247-19 | 27A | 27 | 1.19 | 8.59 | 9.78 | 7.36 | 71.8 | |
| O5248-02 | 28A | 28 | 1.19 | 8.80 | 9.99 | 7.44 | 71.0 | |
| O5248-03 | 29A | 29 | 1.12 | 8.71 | 9.83 | 8.21 | 81.4 | |
| O5248-04 | 30A | 30 | 1.19 | 8.58 | 9.77 | 7.99 | 79.3 | |
| O5248-05 | 31A | 31 | 1.15 | 8.53 | 9.68 | 7.61 | 75.7 | |
| O5248-06 | 32A | 32 | 1.19 | 8.73 | 9.92 | 7.88 | 76.6 | |
| O5248-07 | 33A | 33 | 1.18 | 8.80 | 9.98 | 7.29 | 69.4 | |
| O5248-08 | 34A | 34 | 1.19 | 8.60 | 9.79 | 8.26 | 82.2 | |
| O5248-09 | 35A | 35 | 1.16 | 8.58 | 9.74 | 7.74 | 76.7 | |
| O5248-10 | DUP-1 | 36 | 1.15 | 8.51 | 9.66 | 7.49 | 74.5 | |
| O5248-13 | DUP-4 | 37 | 1.16 | 8.81 | 9.97 | 7.83 | 75.7 | |
| O5248-14 | DUP-5 | 38 | 1.19 | 8.55 | 9.74 | 8.32 | 83.4 | |
| O5248-16 | DUP-7 | 39 | 1.19 | 8.51 | 9.7 | 7.1 | 69.4 | |
| O5251-01 | T-1 | 40 | 1.12 | 8.76 | 9.88 | 8.27 | 81.6 | |
| O5251-02 | T-2 | 41 | 1.19 | 8.50 | 9.69 | 8.42 | 85.1 | |
| O5251-03 | T-3 | 42 | 1.15 | 8.52 | 9.67 | 8.14 | 82.0 | |
| O5251-04 | T-4 | 43 | 1.19 | 8.43 | 9.62 | 8.39 | 85.4 | |
| O5251-05 | T-5 | 44 | 1.16 | 8.39 | 9.55 | 8.39 | 86.2 | |
| O5251-06 | T-6 | 45 | 1.18 | 8.63 | 9.81 | 8.22 | 81.6 | |

CHEMTECH

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** JIGNESH
**Date:** 11/7/2023

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:25
**In Date:** 11/06/2023
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN-1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:15
**Out Date:** 11/07/2023
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** %SOLIDS-OVEN

**QC:** LB128195

| 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 |
|---|---|---|---|---|---|---|---|---|
| O5251-07 | T-7 | 46 | 1.17 | 8.50 | 9.67 | 8.55 | 86.8 | |
| O5251-08 | T-8 | 47 | 1.19 | 8.69 | 9.88 | 8.73 | 86.8 | |
| O5251-09 | T-9 | 48 | 1.12 | 8.70 | 9.82 | 8.76 | 87.8 | |
| O5251-10 | T-10 | 49 | 1.19 | 8.73 | 9.92 | 8.85 | 87.7 | |
| O5251-11 | T-11 | 50 | 1.19 | 8.65 | 9.84 | 8.68 | 86.6 | |
| O5252-01 | WASTE | 51 | 1.17 | 8.60 | 9.77 | 8.96 | 90.6 | |
| O5253-01 | L-1(65FT)(5-10) | 52 | 1.18 | 8.53 | 9.71 | 8.35 | 84.1 | |
| O5253-02 | L-6(0-5) | 53 | 1.13 | 8.53 | 9.66 | 8.76 | 89.4 | |
| O5253-03 | L-3(120FT)(0-5) | 54 | 1.15 | 8.57 | 9.72 | 9.00 | 91.6 | |
| O5253-04 | L-3(195FT)(0-5) | 55 | 1.19 | 8.58 | 9.77 | 9.02 | 91.3 | |
| O5258-01 | 01-A-01-B-01-C | 56 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-02 | 02-A-02-B-02-C | 57 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-03 | 03-A-03-B-03-C | 58 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-04 | 04-A-04-B-04-C | 59 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-05 | 05-A-05-B-05-C | 60 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-06 | 06-A-06-B-06-C | 61 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-07 | 07-A-07-B-07-C | 62 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-08 | 08-A-08-B-08-C | 63 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-09 | 09-A-09-B-09-C | 64 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-10 | 10-A-10-B-10-C | 65 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-11 | 11-A-11-B-11-C | 66 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-12 | 12-A-12-B-12-C | 67 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-13 | 13-A-14-B-14-C | 68 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-14 | 14-A-14-B-14-C | 69 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-15 | 15-A-15-B-15-C | 70 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-16 | 16-A-16-B-16-C | 71 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-17 | 17-A-17-B-17-C | 72 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-18 | 18-A-18-B-18-C | 73 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |

CHEMTECH

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** JIGNESH
**Date:** 11/7/2023

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:25
**In Date:** 11/06/2023
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN-1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:15
**Out Date:** 11/07/2023
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** %SOLIDS-OVEN

**QC:** LB128195

| 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 |
|---|---|---|---|---|---|---|---|---|
| O5258-19 | 19-A-19-B-19-C | 74 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-20 | 20-A-20-B-20-C | 75 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-21 | 21-A-21-B-21-C | 76 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-22 | 22-A-22-B-22-C | 77 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-23 | 23-A-23-B-23-C | 78 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-24 | 24-A-24-B-24-C | 79 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-25 | 25-A-25-B-25-C | 80 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-26 | 26-A-26-B-26-C | 81 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5258-27 | 27-A-27-B-27-C | 82 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CAULKING SAMPLE |
| O5266-01 | 1203 | 83 | 1.15 | 8.42 | 9.57 | 9.24 | 96.1 | |
| O5267-01 | ETGI-320 | 86 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CONCRETE SAMPLE |
| O5270-01 | OR-3-110623 | 84 | 1.18 | 8.80 | 9.98 | 9.34 | 92.7 | |
| O5270-02 | OR-3-110623-E2 | 85 | 1.13 | 8.80 | 9.93 | 9.01 | 89.5 | |
| O5272-01 | 001 | 87 | 1.15 | 8.39 | 9.54 | 7.94 | 80.9 | |
| O5272-02 | 002 | 88 | 1.15 | 8.39 | 9.54 | 7.94 | 80.9 | |

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

VB 128195

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** %1-110623 **WorkList ID :** 175305 **Department :** Wet-Chemistry **Date :** 11-06-2023 08:43:56

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| O5102-02 | 67S-SB02-0815 | Solid | Percent Solids | Cool 4 deg C | TETR16 | I41 | 10/23/2023 | Chemtech -SO |
| O5102-03 | 67S-SB02-2628 | Solid | Percent Solids | Cool 4 deg C | TETR16 | I41 | 10/23/2023 | Chemtech -SO |
| O5102-04 | 67S-SB04-1419 | Solid | Percent Solids | Cool 4 deg C | TETR16 | I41 | 10/23/2023 | Chemtech -SO |
| O5102-05 | 67S-SB07-1418 | Solid | Percent Solids | Cool 4 deg C | TETR16 | I41 | 10/23/2023 | Chemtech -SO |
| O5102-06 | 67S-SB08-1619 | Solid | Percent Solids | Cool 4 deg C | TETR16 | I41 | 10/23/2023 | Chemtech -SO |
| O5102-07 | 67S-SB09-1314.5 | Solid | Percent Solids | Cool 4 deg C | TETR16 | I41 | 10/23/2023 | Chemtech -SO |
| O5102-08 | 67S-SB11-1218 | Solid | Percent Solids | Cool 4 deg C | TETR16 | I41 | 10/23/2023 | Chemtech -SO |
| O5102-09 | 67S-SB11-1218-D | Solid | Percent Solids | Cool 4 deg C | TETR16 | I41 | 10/24/2023 | Chemtech -SO |
| O5102-10 | 67S-SB14-1216 | Solid | Percent Solids | Cool 4 deg C | TETR16 | I41 | 10/24/2023 | Chemtech -SO |
| O5102-11 | 67S-SB16-1617 | Solid | Percent Solids | Cool 4 deg C | TETR16 | I41 | 10/24/2023 | Chemtech -SO |
| O5244-01 | 1A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5244-04 | 2A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5244-07 | 3A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5244-10 | 4A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5244-13 | 5A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5244-16 | 6A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5244-19 | 7A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5245-02 | 8A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5245-05 | 9A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5245-08 | 10A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5245-11 | 11A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |

**Date/Time** 11.06.23 15:30

**Raw Sample Received by:** JR (WC)

**Raw Sample Relinquished by:**

**Date/Time** 11.06.23 17:30

**Raw Sample Received by:**

**Raw Sample Relinquished by:** JR (WC)

# WORKLIST(Hardcopy Internal Chain)

VB 128195

**WorkList Name :** %1-110623 **WorkList ID :** 175305 **Department :** Wet-Chemistry **Date :** 11-06-2023 08:43:56

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| O5245-14 | 12A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5245-17 | 13A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5245-20 | 14A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5246-03 | 15A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5246-06 | 16A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5246-09 | 17A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5246-12 | 18A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5246-15 | 19A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5246-18 | 20B | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5247-01 | 21B | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5247-04 | 22B | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/03/2023 | Chemtech -SO |
| O5247-07 | 23B | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/03/2023 | Chemtech -SO |
| O5247-10 | 24B | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/03/2023 | Chemtech -SO |
| O5247-13 | 25B | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/03/2023 | Chemtech -SO |
| O5247-16 | 26A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/03/2023 | Chemtech -SO |
| O5247-19 | 27A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/03/2023 | Chemtech -SO |
| O5248-02 | 28A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/03/2023 | Chemtech -SO |
| O5248-03 | 29A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5248-04 | 30A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5248-05 | 31A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5248-06 | 32A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |

**Date/Time** 11-06-23 15:30

**Raw Sample Received by:** JP (WC)

**Raw Sample Relinquished by:**

**Date/Time** 11-06-23 17:30

**Raw Sample Received by:**

**Raw Sample Relinquished by:** JP (WC)

# WORKLIST(Hardcopy Internal Chain)

VB128195

**WorkList Name :** %1-110623 **WorkList ID :** 175305 **Department :** Wet-Chemistry **Date :** 11-06-2023 08:43:56

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| O5248-07 | 33A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5248-08 | 34A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5248-09 | 35A | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5248-10 | DUP-1 | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5248-13 | DUP-4 | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5248-14 | DUP-5 | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5248-16 | DUP-7 | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5251-01 | T-1 | Solid | Percent Solids | Cool 4 deg C | ATCE02 | I41 | 11/02/2023 | Chemtech -SO |
| O5251-02 | T-2 | Solid | Percent Solids | Cool 4 deg C | RMJE02 | L21 | 11/02/2023 | Chemtech -SO |
| O5251-03 | T-3 | Solid | Percent Solids | Cool 4 deg C | RMJE02 | L21 | 11/02/2023 | Chemtech -SO |
| O5251-04 | T-4 | Solid | Percent Solids | Cool 4 deg C | RMJE02 | L21 | 11/02/2023 | Chemtech -SO |
| O5251-05 | T-5 | Solid | Percent Solids | Cool 4 deg C | RMJE02 | L21 | 11/02/2023 | Chemtech -SO |
| O5251-06 | T-6 | Solid | Percent Solids | Cool 4 deg C | RMJE02 | L21 | 11/02/2023 | Chemtech -SO |
| O5251-07 | T-7 | Solid | Percent Solids | Cool 4 deg C | RMJE02 | L21 | 11/02/2023 | Chemtech -SO |
| O5251-08 | T-8 | Solid | Percent Solids | Cool 4 deg C | RMJE02 | L21 | 11/02/2023 | Chemtech -SO |
| O5251-09 | T-9 | Solid | Percent Solids | Cool 4 deg C | RMJE02 | L21 | 11/02/2023 | Chemtech -SO |
| O5251-10 | T-10 | Solid | Percent Solids | Cool 4 deg C | RMJE02 | L21 | 11/02/2023 | Chemtech -SO |
| O5251-11 | T-11 | Solid | Percent Solids | Cool 4 deg C | RMJE02 | L21 | 11/02/2023 | Chemtech -SO |
| O5252-01 | WASTE | Solid | Percent Solids | Cool 4 deg C | RMJE02 | L21 | 11/02/2023 | Chemtech -SO |
| O5253-01 | L-1(65FT)(5-10) | Solid | Percent Solids | Cool 4 deg C | RMJE02 | I31 | 11/03/2023 | Chemtech -SO |
| O5253-02 | L-6(0-5) | Solid | Percent Solids | Cool 4 deg C | GEIC06 | L21 | 11/02/2023 | Chemtech -SO |
| | | | | | GEIC06 | L21 | 11/03/2023 | Chemtech -SO |

**Date/Time** 11-06-23 15:30

**Raw Sample Received by:** JP (WC)

**Raw Sample Relinquished by:**

**Date/Time** 11-06-23 17:30

**Raw Sample Received by:**

**Raw Sample Relinquished by:** JP (WC)

NB128195

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** %1-110623 **WorkList ID :** 175305 **Department :** Wet-Chemistry **Date :** 11-06-2023 08:43:56

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| O5253-03 | L-3(120FT)(0-5) | Solid | Percent Solids | Cool 4 deg C | GEIC06 | L21 | 11/03/2023 | Chemtech -SO |
| O5253-04 | L-3(195FT)(0-5) | Solid | Percent Solids | Cool 4 deg C | GEIC06 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-01 | 01-A-01-B-01-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-02 | 02-A-02-B-02-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-03 | 03-A-03-B-03-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-04 | 04-A-04-B-04-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-05 | 05-A-05-B-05-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-06 | 06-A-06-B-06-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-07 | 07-A-07-B-07-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-08 | 08-A-08-B-08-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-09 | 09-A-09-B-09-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-10 | 10-A-10-B-10-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-11 | 11-A-11-B-11-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-12 | 12-A-12-B-12-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-13 | 13-A-14-B-14-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-14 | 14-A-14-B-14-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-15 | 15-A-15-B-15-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-16 | 16-A-16-B-16-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-17 | 17-A-17-B-17-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-18 | 18-A-18-B-18-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-19 | 19-A-19-B-19-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |

**Date/Time** 11.06.23 15:30

**Raw Sample Received by:** JD (CWC)

**Raw Sample Relinquished by:** CP Sm

**Date/Time** 11.06.23 17:30

**Raw Sample Received by:** CP Sm

**Raw Sample Relinquished by:** JD (CWC)

NB128195

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** %1-110623 **WorkList ID :** 175305 **Department :** Wet-Chemistry **Date :** 11-06-2023 08:43:56

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| O5258-20 | 20-A-20-B-20-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-21 | 21-A-21-B-21-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-22 | 22-A-22-B-22-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-23 | 23-A-23-B-23-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-24 | 24-A-24-B-24-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-25 | 25-A-25-B-25-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-26 | 26-A-26-B-26-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5258-27 | 27-A-27-B-27-C | Solid | Percent Solids | Cool 4 deg C | BSIG01 | L21 | 11/03/2023 | Chemtech -SO |
| O5266-01 | 1203 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I41 | 11/06/2023 | Chemtech -SO |
| O5267-01 | ETGI-320 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 11/06/2023 | Chemtech -SO |
| O5270-01 | OR-3-110623 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | I31 | 11/06/2023 | Chemtech -SO |
| O5270-02 | OR-3-110623-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | I31 | 11/06/2023 | Chemtech -SO |
| O5272-01 | 001 | Solid | Percent Solids | Cool 4 deg C | CONS03 | I41 | 11/02/2023 | Chemtech -SO |
| O5272-02 | 002 | Solid | Percent Solids | Cool 4 deg C | CONS03 | I41 | 11/02/2023 | Chemtech -SO |

**Date/Time** 11.06.23 15:30

**Raw Sample Received by:** JD (CEC)

**Raw Sample Relinquished by:** CR SM

**Date/Time** 11.06.23 17:30

**Raw Sample Received by:** CR SM

**Raw Sample Relinquished by:** JD (CEC)

CHEMTECH

# 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. 05252
COC Number 2042541

### CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: RMJ
ADDRESS: PO Box 719
CITY Totowa STATE: NJ ZIP: 07511
ATTENTION: Jonathan Pereira
PHONE: 5512719485 FAX:

### CLIENT PROJECT INFORMATION

PROJECT NAME: 245 Greenwood
PROJECT NO.: LOCATION: Midland Park
PROJECT MANAGER: Jonathan Pereira
e-mail:
PHONE: 9736330020 FAX: 9736330019

### CLIENT BILLING INFORMATION

BILL TO: RMJ PO#:
ADDRESS: PO Box 719
CITY Totowa STATE: NJ ZIP: 07511
ATTENTION: Rita Della Fave PHONE:

### DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ 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)
- ☐ Level 4 (QC + Full Raw Data)
- ☒ NJ Reduced
- ☐ US EPA CLP
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other
- ☒ EDD FORMAT NJ EDD

### ANALYSIS

1 EPH
2 TAL/TCL + 30
3 Paint Filter
4 TCLP Metals
5 VOC
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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | A | | | | | ← Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER |
| 1. | Waste | Soil | X | | 11/3/23 | 1120 | 2 | X | X | X | H | | | | | | H = Hold |
| 2. | Waste - VOC | ↓ | | X | 11/3/23 | 1126 | 3 | | | | | X | | | | | |
| 3. | | | | | | | | | | | | | | | | | |
| 4. | | | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | | |
| 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. Jpereira | 11/3/23 1402 | 1. IT |
| 2. | | 2. |
| 3. | | 3. |

Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.8 °C
Comments: Hold TCLP Metal Analysis

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
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-0649 |
| | |
| DOD ELAP (L-A-B) | L2219 |
| | |
| Maine | 2022022 |
| | |
| Maryland | 296 |
| | |
| New Hampshire | 255423 |
| | |
| New Jersey | 20012 |
| | |
| New York | 11376 |
| | |
| Pennsylvania | 68-00548 |
| | |
| Soil Permit | P330-21-00137 |
| | |
| Texas | T104704488-23-16 |

CHEMTECH

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** O5252 RMJE02
**Client Name :** RMJ Environomics, Inc.
**Client Contact :** Jonathan Pereira
**Invoice Name :** RMJ Environomics, Inc.
**Invoice Contact :** Jonathan Pereira

**Order Date :** 11/3/2023 2:14:16 PM
**Project Name :** 245 Greenwood Ave
**Receive DateTime :** 11/3/2023 2:02:00 PM
**Purchase Order :**

**Project Mgr :** Yazmeen
**Report Type :** NJ Reduced
**EDD Type :** HAZ/EXCEL
**Hard Copy Date :**
**Date Signoff :** 11/6/2023 9:49:22 AM

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| O5252-03 | WASTE-VOC | Solid | 11/03/2023 | 11:26 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |

**Relinguished By :** DW
**Date / Time :** 11/6/23 1030

**Received By :** Sam
**Date / Time :** 11/6/23 10:30 aej#6 R22
**Storage Area :** VOA Refridgerator Room