

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW050621\  
 Data File : VW021306.D  
 Acq On : 06 May 2021 13:57  
 Operator : SY/MD  
 Sample : M2250-01  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-WATER-QT3-2021-05

Manual Integrations  
 APPROVED

MMDadoda  
 5/11/2021 1:12:04 PM

Quant Time: May 07 03:57:24 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM050321WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri May 07 03:56:18 2021  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response           | Conc  | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|-------|--------|----------|
| -----                         |                |      |                    |       |        |          |
| Internal Standards            |                |      |                    |       |        |          |
| 1) 1,4-Difluorobenzene        | 5.622          | 114  | 660035             | 50.00 | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.857          | 117  | 632490             | 50.00 | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.255         | 152  | 340021             | 50.00 | ug/L   | 0.00     |
|                               |                |      |                    |       |        |          |
| System Monitoring Compounds   |                |      |                    |       |        |          |
| 4) Vinyl Chloride-d3          | 1.307          | 65   | 157731             | 53.87 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = 107.74% |       |        |          |
| 7) Chloroethane-d5            | 1.571          | 69   | 134212             | 51.29 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = 102.58% |       |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.108          | 63   | 302697             | 37.06 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = 74.12%  |       |        |          |
| 21) 2-Butanone-d5             | 3.905          | 46   | 174280             | 74.18 | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = 74.18%  |       |        |          |
| 24) Chloroform-d              | 4.355          | 84   | 426695             | 45.79 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = 91.58%  |       |        |          |
| 26) 1,2-Dichloroethane-d4     | 5.037          | 65   | 332561             | 47.67 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = 95.34%  |       |        |          |
| 32) Benzene-d6                | 5.053          | 84   | 727851             | 49.97 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = 99.94%  |       |        |          |
| 36) 1,2-Dichloropropane-d6    | 6.072          | 67   | 178419             | 47.68 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = 95.36%  |       |        |          |
| 41) Toluene-d8                | 7.320          | 98   | 732607             | 48.53 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = 97.06%  |       |        |          |
| 43) trans-1,3-Dichloroprop... | 7.625          | 79   | 123219             | 44.27 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = 88.54%  |       |        |          |
| 47) 2-Hexanone-d5             | 8.095          | 63   | 140415             | 81.26 | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = 81.26%  |       |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.220         | 84   | 262626             | 43.86 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = 87.72%  |       |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 11.632         | 152  | 323092             | 48.22 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = 96.44%  |       |        |          |
|                               |                |      |                    |       |        |          |
| Target Compounds              |                |      |                    |       |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.130          | 85   | 12387              | 2.32  | ug/L   | 91       |
| 3) Chloromethane              | 1.243          | 50   | 7169               | 2.24  | ug/L   | 93       |
| 5) Vinyl chloride             | 1.311          | 62   | 9025m              | 2.26  | ug/L   |          |
| 6) Bromomethane               | 1.523          | 94   | 7215               | 2.30  | ug/L   | 97       |
| 8) Chloroethane               | 1.587          | 64   | 5573               | 2.16  | ug/L   | 96       |
| 9) Trichlorofluoromethane     | 1.754          | 101  | 20097              | 1.92  | ug/L   | 90       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.118          | 101  | 12505              | 2.70  | ug/L # | 84       |
| 12) 1,1-Dichloroethene        | 2.118          | 96   | 9325               | 2.26  | ug/L # | 1        |
| 13) Acetone                   | 2.214          | 43   | 8773m              | 3.16  | ug/L   |          |
| 14) Carbon disulfide          | 2.294          | 76   | 22119              | 2.13  | ug/L # | 95       |
| 15) Methyl Acetate            | 2.449          | 43   | 8130m              | 2.42  | ug/L   |          |
| 16) Methylene chloride        | 2.513          | 84   | 10394              | 2.46  | ug/L   | 86       |
| 17) trans-1,2-Dichloroethene  | 2.767          | 96   | 8134               | 1.97  | ug/L   | 94       |
| 18) Methyl tert-butyl Ether   | 2.773          | 73   | 29156              | 1.97  | ug/L # | 90       |
| 19) 1,1-Dichloroethane        | 3.198          | 63   | 15048              | 2.10  | ug/L   | 93       |
| 20) cis-1,2-Dichloroethene    | 3.918          | 96   | 10335m             | 2.27  | ug/L   |          |
| 22) 2-Butanone                | 4.002          | 43   | 8683m              | 3.28  | ug/L   |          |
| 23) Bromochloromethane        | 4.269          | 128  | 5321               | 2.04  | ug/L # | 82       |
| 25) Chloroform                | 4.378          | 83   | 23392m             | 2.48  | ug/L   |          |

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 ALS Vial : 9 Sample Multiplier: 1

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 MSVOA\_V  
 ClientSampleId :  
 MDL-WATER-QT3-2021-05

Manual Integrations  
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MMDadoda  
 5/11/2021 1:12:04 PM

Quant Time: May 07 03:57:24 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM050321WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri May 07 03:56:18 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.143  | 62   | 14776    | 1.72 | ug/L # | 94       |
| 29) Cyclohexane               | 4.687  | 56   | 9810     | 1.85 | ug/L # | 63       |
| 30) 1,1,1-Trichloroethane     | 4.609  | 97   | 23969m   | 2.43 | ug/L   |          |
| 31) Carbon tetrachloride      | 4.838  | 117  | 17693    | 1.93 | ug/L # | 54       |
| 33) Benzene                   | 5.111  | 78   | 35604    | 2.20 | ug/L   | 100      |
| 34) Trichloroethene           | 5.918  | 95   | 10446    | 2.01 | ug/L # | 83       |
| 35) Methylcyclohexane         | 6.133  | 83   | 13050    | 1.92 | ug/L # | 81       |
| 37) 1,2-Dichloropropane       | 6.178  | 63   | 6893     | 2.02 | ug/L # | 96       |
| 38) Bromodichloromethane      | 6.516  | 83   | 13482    | 1.86 | ug/L   | 88       |
| 39) cis-1,3-Dichloropropene   | 7.040  | 75   | 10734    | 1.61 | ug/L   | 84       |
| 40) 4-Methyl-2-pentanone      | 7.240  | 43   | 16992    | 3.51 | ug/L # | 91       |
| 42) Toluene                   | 7.397  | 91   | 45411    | 2.41 | ug/L   | 93       |
| 44) trans-1,3-Dichloropropene | 7.661  | 75   | 12920    | 1.78 | ug/L   | 92       |
| 45) 1,1,2-Trichloroethane     | 7.847  | 97   | 8351     | 1.90 | ug/L # | 79       |
| 46) Tetrachloroethene         | 7.982  | 164  | 9806     | 2.19 | ug/L # | 78       |
| 48) 2-Hexanone                | 8.153  | 43   | 31841    | 8.19 | ug/L # | 46       |
| 49) Dibromochloromethane      | 8.252  | 129  | 12706    | 2.04 | ug/L   | 96       |
| 50) 1,2-Dibromoethane         | 8.362  | 107  | 10098    | 2.04 | ug/L # | 97       |
| 51) Chlorobenzene             | 8.889  | 112  | 28501    | 2.19 | ug/L   | 94       |
| 52) Ethylbenzene              | 9.021  | 91   | 42539    | 1.95 | ug/L   | 95       |
| 53) m,p-Xylene                | 9.146  | 106  | 15826    | 1.85 | ug/L   | 76       |
| 54) o-Xylene                  | 9.551  | 106  | 14537    | 1.76 | ug/L   | 79       |
| 55) Styrene                   | 9.574  | 104  | 24644    | 1.76 | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.249 | 83   | 12819    | 2.16 | ug/L # | 76       |
| 59) Bromoform                 | 9.741  | 173  | 10600    | 2.33 | ug/L # | 89       |
| 60) Isopropylbenzene          | 9.940  | 105  | 45076    | 2.07 | ug/L # | 93       |
| 61) 1,2,3-Trichloropropane    | 10.278 | 75   | 12301    | 2.21 | ug/L   | 95       |
| 62) 1,3,5-Trimethylbenzene    | 10.545 | 105  | 35885    | 1.89 | ug/L   | 95       |
| 63) 1,2,4-Trimethylbenzene    | 10.924 | 105  | 35642    | 1.87 | ug/L   | 88       |
| 64) 1,3-Dichlorobenzene       | 11.191 | 146  | 19073    | 1.81 | ug/L   | 93       |
| 65) 1,4-Dichlorobenzene       | 11.281 | 146  | 21900    | 2.03 | ug/L   | 95       |
| 67) 1,2-Dichlorobenzene       | 11.648 | 146  | 23549    | 2.21 | ug/L # | 90       |
| 68) 1,2-Dibromo-3-chloropr... | 12.439 | 75   | 3354     | 1.73 | ug/L   | 88       |
| 69) 1,3,5-Trichlorobenzene    | 12.654 | 180  | 15094    | 1.85 | ug/L   | 96       |
| 70) 1,2,4-trichlorobenzene    | 13.275 | 180  | 9423     | 1.42 | ug/L   | 96       |
| 71) Naphthalene               | 13.516 | 128  | 19275    | 1.06 | ug/L # | 93       |
| 72) 1,2,3-Trichlorobenzene    | 13.754 | 180  | 10737    | 1.60 | ug/L   | 99       |

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

