

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110320\  
 Data File : VV019225.D  
 Acq On : 03 Nov 2020 02:51  
 Operator : SY/MD  
 Sample : L4485-10  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-WATER-03

Manual Integrations  
 APPROVED

MMDadoda  
 11/4/2020 10:45:08 AM

Quant Time: Nov 03 06:43:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SFAMVLM110320WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Nov 03 05:28:09 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 229115   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 223422   | 50.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 111737   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 87268    | 49.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 98.70%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 74123    | 53.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 107.00% |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 134449   | 41.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 82.14%  |
| 21) 2-Butanone-d5              | 3.91    | 46    | 109164   | 111.97   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 111.97% |
| 24) Chloroform-d               | 4.38    | 84    | 166945   | 50.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.90% |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 119881   | 51.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.98% |
| 32) Benzene-d6                 | 5.07    | 84    | 318148   | 51.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.14% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 97100    | 52.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 105.44% |
| 41) Toluene-d8                 | 7.34    | 98    | 288220   | 50.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 100.30% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 51112    | 49.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 98.02%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 71566    | 100.08   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 100.08% |
| 56) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 121735   | 49.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 99.20%  |
| 66) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 122112   | 54.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 109.26% |

## Target Compounds

|                                |      |     |       |              | Ovalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 3349  | 2.386 ug/L   | 97     |
| 3) Chloromethane               | 1.25 | 50  | 4015  | 2.747 ug/L   | 99     |
| 5) Vinyl chloride              | 1.32 | 62  | 4320  | 2.840 ug/L # | 73     |
| 6) Bromomethane                | 1.53 | 94  | 3063  | 2.996 ug/L   | 88     |
| 8) Chloroethane                | 1.60 | 64  | 2988  | 3.003 ug/L   | 97     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 6446  | 2.559 ug/L   | 96     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 3985  | 3.330 ug/L # | 77     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 4396  | 3.554 ug/L # | 1      |
| 13) Acetone                    | 2.20 | 43  | 4546  | 6.131 ug/L   | 80     |
| 14) Carbon disulfide           | 2.32 | 76  | 9376  | 2.640 ug/L   | 99     |
| 15) Methyl Acetate             | 2.46 | 43  | 4283  | 2.981 ug/L # | 68     |
| 16) Methylene chloride         | 2.53 | 84  | 4396  | 2.990 ug/L   | 97     |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 3413  | 2.544 ug/L   | 88     |
| 18) Methyl tert-butyl Ether    | 2.79 | 73  | 12632 | 2.678 ug/L   | 100    |
| 19) 1,1-Dichloroethane         | 3.22 | 63  | 7079  | 2.693 ug/L   | 97     |
| 20) cis-1,2-Dichloroethene     | 3.95 | 96  | 3875  | 2.613 ug/L   | 98     |
| 22) 2-Butanone                 | 4.03 | 43  | 5090m | 5.408 ug/L   |        |

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 Quant Title : VOC Analysis  
 QLast Update : Tue Nov 03 05:28:09 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| -----                          |       |      |          |       |        |          |
| 23) Bromochloromethane         | 4.28  | 128  | 2040m    | 2.499 | ug/L   |          |
| 25) Chloroform                 | 4.41  | 83   | 8468     | 3.004 | ug/L   | 97       |
| 27) 1,2-Dichloroethane         | 5.17  | 62   | 7106     | 2.966 | ug/L   | 95       |
| 29) Cyclohexane                | 4.70  | 56   | 4121     | 2.155 | ug/L # | 67       |
| 30) 1,1,1-Trichloroethane      | 4.64  | 97   | 6578     | 2.539 | ug/L   | 99       |
| 31) Carbon tetrachloride       | 4.86  | 117  | 4926     | 2.202 | ug/L   | 96       |
| 33) Benzene                    | 5.13  | 78   | 13472    | 2.426 | ug/L   | 100      |
| 34) Trichloroethene            | 5.95  | 95   | 3709     | 2.458 | ug/L   | 94       |
| 35) Methylcyclohexane          | 6.16  | 83   | 4109     | 2.250 | ug/L   | 95       |
| 37) 1,2-Dichloropropane        | 6.21  | 63   | 4021     | 2.714 | ug/L # | 89       |
| 38) Bromodichloromethane       | 6.54  | 83   | 5099     | 2.391 | ug/L   | 93       |
| 39) cis-1,3-Dichloropropene    | 7.05  | 75   | 5766     | 2.432 | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone       | 7.25  | 43   | 9693     | 4.869 | ug/L   | 97       |
| 42) Toluene                    | 7.41  | 91   | 16764    | 2.793 | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene  | 7.68  | 75   | 5715     | 2.352 | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane      | 7.86  | 97   | 3769     | 2.573 | ug/L   | 93       |
| 46) Tetrachloroethene          | 8.00  | 164  | 2798     | 2.273 | ug/L   | 99       |
| 48) 2-Hexanone                 | 8.16  | 43   | 9170     | 6.093 | ug/L   | 93       |
| 49) Dibromochloromethane       | 8.27  | 129  | 4449     | 2.547 | ug/L   | 90       |
| 50) 1,2-Dibromoethane          | 8.38  | 107  | 3940     | 2.595 | ug/L   | 91       |
| 51) Chlorobenzene              | 8.90  | 112  | 9809     | 2.443 | ug/L   | 97       |
| 52) Ethylbenzene               | 9.04  | 91   | 14319    | 2.162 | ug/L   | 97       |
| 53) m,p-Xylene                 | 9.16  | 106  | 5448     | 2.198 | ug/L   | 96       |
| 54) o-Xylene                   | 9.57  | 106  | 5371     | 2.198 | ug/L   | 90       |
| 55) Styrene                    | 9.59  | 104  | 8546     | 1.965 | ug/L   | 93       |
| 57) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 6155     | 2.778 | ug/L # | 94       |
| 59) Bromoform                  | 9.75  | 173  | 3174     | 2.559 | ug/L # | 97       |
| 60) Isopropylbenzene           | 9.95  | 105  | 13019    | 2.223 | ug/L   | 98       |
| 61) 1,2,3-Trichloropropane     | 10.30 | 75   | 5110     | 2.944 | ug/L   | 97       |
| 62) 1,3,5-Trimethylbenzene     | 10.56 | 105  | 10317    | 2.115 | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene     | 10.94 | 105  | 9903     | 2.075 | ug/L   | 93       |
| 64) 1,3-Dichlorobenzene        | 11.21 | 146  | 7976     | 2.604 | ug/L   | 93       |
| 65) 1,4-Dichlorobenzene        | 11.30 | 146  | 8322     | 2.626 | ug/L   | 96       |
| 67) 1,2-Dichlorobenzene        | 11.66 | 146  | 8271     | 2.639 | ug/L # | 90       |
| 68) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 1274     | 2.516 | ug/L   | 91       |
| 69) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 5168     | 2.351 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene     | 13.29 | 180  | 4426     | 2.139 | ug/L   | 98       |
| 71) Naphthalene                | 13.53 | 128  | 10654    | 1.826 | ug/L   | 98       |
| 72) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 4295     | 2.094 | ug/L   | 98       |
| -----                          |       |      |          |       |        |          |

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

