

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV101119\  
 Data File : VV013119.D  
 Acq On : 11 Oct 2019 23:08  
 Operator : SY/MD  
 Sample : MDL07 2.5PPB  
 Misc : 5.00ML/MSVOA\_V/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL07 2.5PPB

Manual Integrations  
 APPROVED

MMDadoda  
 10/14/2019 4:13:39 PM

Quant Time: Oct 12 04:10:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM101119WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Oct 12 01:26:57 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 684653   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 644084   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 267222   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 234298   | 54.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 108.28% |
| 7) Chloroethane-d5             | 1.58    | 69    | 202934   | 57.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 114.42% |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 334719   | 41.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 82.00%  |
| 21) 2-Butanone-d5              | 3.92    | 46    | 367024   | 112.79   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 112.79% |
| 24) Chloroform-d               | 4.40    | 84    | 451185   | 54.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 108.32% |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 293712   | 57.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 114.38% |
| 32) Benzene-d6                 | 5.10    | 84    | 965752   | 56.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 112.40% |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 308760   | 57.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 114.70% |
| 41) Toluene-d8                 | 7.36    | 98    | 825185   | 53.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 107.32% |
| 43) trans-1,3-Dichloropropene- | 7.66    | 79    | 125555   | 51.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 102.96% |
| 47) 2-Hexanone-d5              | 8.13    | 63    | 232173   | 108.38   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 108.38% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26   | 84    | 371530   | 53.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 106.94% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67   | 152   | 313954   | 59.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 119.94% |

## Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 12211 | 2.299 ug/L   | 100    |
| 3) Chloromethane               | 1.25 | 50  | 15154 | 2.508 ug/L   | 97     |
| 5) Vinyl chloride              | 1.33 | 62  | 13262 | 2.284 ug/L # | 59     |
| 6) Bromomethane                | 1.53 | 94  | 8900  | 2.996 ug/L   | 99     |
| 8) Chloroethane                | 1.60 | 64  | 9024  | 2.613 ug/L   | 94     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 17191 | 2.308 ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 13125 | 2.991 ug/L # | 81     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 11955 | 2.816 ug/L # | 1      |
| 13) Acetone                    | 2.19 | 43  | 11086 | 3.710 ug/L   | 96     |
| 14) Carbon disulfide           | 2.32 | 76  | 27854 | 2.262 ug/L   | 96     |
| 15) Methyl Acetate             | 2.46 | 43  | 11251 | 2.125 ug/L   | 98     |
| 16) Methylene chloride         | 2.54 | 84  | 12481 | 2.471 ug/L   | 97     |
| 17) trans-1,2-Dichloroethene   | 2.79 | 96  | 10670 | 2.316 ug/L   | 96     |
| 18) Methyl tert-butyl Ether    | 2.80 | 73  | 29201 | 2.100 ug/L   | 99     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 19176 | 2.207 ug/L   | 95     |
| 20) cis-1,2-Dichloroethene     | 3.96 | 96  | 11316 | 2.171 ug/L   | 92     |
| 22) 2-Butanone                 | 4.02 | 43  | 12577 | 3.307 ug/L   | 75     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane         | 4.31  | 128  | 5849m    | 2.209 | ug/L   |          |
| 25) Chloroform                 | 4.43  | 83   | 24814    | 2.834 | ug/L   | 96       |
| 27) 1,2-Dichloroethane         | 5.18  | 62   | 16213    | 2.416 | ug/L   | 95       |
| 29) Cyclohexane                | 4.73  | 56   | 15956    | 2.069 | ug/L   | 98       |
| 30) 1,1,1-Trichloroethane      | 4.66  | 97   | 15566    | 2.178 | ug/L   | 98       |
| 31) Carbon tetrachloride       | 4.88  | 117  | 14306    | 2.253 | ug/L   | 99       |
| 33) Benzene                    | 5.15  | 78   | 42315    | 2.157 | ug/L   | 100      |
| 34) Trichloroethene            | 5.96  | 95   | 11676    | 2.235 | ug/L   | 96       |
| 35) Methylcyclohexane          | 6.17  | 83   | 16458    | 2.083 | ug/L   | 99       |
| 37) 1,2-Dichloropropane        | 6.22  | 63   | 12192    | 2.400 | ug/L # | 93       |
| 38) Bromodichloromethane       | 6.55  | 83   | 13891    | 2.149 | ug/L   | 100      |
| 39) cis-1,3-Dichloropropene    | 7.07  | 75   | 14609    | 1.945 | ug/L   | 95       |
| 40) 4-Methyl-2-pentanone       | 7.27  | 43   | 24644    | 3.706 | ug/L   | 97       |
| 42) Toluene                    | 7.43  | 91   | 45850    | 2.270 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 13487    | 2.071 | ug/L   | 95       |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 11017    | 2.284 | ug/L   | 94       |
| 46) Tetrachloroethene          | 8.02  | 164  | 9344     | 2.260 | ug/L   | 93       |
| 48) 2-Hexanone                 | 8.18  | 43   | 32262    | 6.274 | ug/L # | 88       |
| 49) Dibromochloromethane       | 8.29  | 129  | 10803    | 2.055 | ug/L   | 97       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 10650    | 2.113 | ug/L # | 99       |
| 51) Chlorobenzene              | 8.92  | 112  | 29090    | 2.196 | ug/L   | 97       |
| 52) Ethylbenzene               | 9.05  | 91   | 43286    | 2.007 | ug/L   | 94       |
| 53) m,p-Xylene                 | 9.18  | 106  | 15131    | 1.864 | ug/L   | 99       |
| 54) o-xylene                   | 9.59  | 106  | 14795    | 1.820 | ug/L   | 97       |
| 55) Styrene                    | 9.60  | 104  | 23410    | 1.753 | ug/L   | 100      |
| 56) Isopropylbenzene           | 9.97  | 105  | 35839    | 1.717 | ug/L   | 98       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 17325    | 2.471 | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 13520    | 2.186 | ug/L   | 98       |
| 61) Bromoform                  | 9.77  | 173  | 7748     | 2.304 | ug/L # | 94       |
| 62) 1,3-Dichlorobenzene        | 11.22 | 146  | 18766    | 2.172 | ug/L   | 97       |
| 63) 1,4-Dichlorobenzene        | 11.31 | 146  | 21595    | 2.489 | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 22324    | 2.538 | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 2724     | 2.129 | ug/L   | 93       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 13394    | 2.173 | ug/L   | 96       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 10897    | 2.062 | ug/L   | 99       |
| 69) Naphthalene                | 13.55 | 128  | 22150    | 1.521 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 11000    | 1.945 | ug/L   | 97       |

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

