

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV041819\  
 Data File : VV010349.D  
 Acq On : 18 Apr 2019 14:28  
 Operator : SY/MD  
 Sample : VSTDCCC025  
 Misc : 5.00G/10mL/MSVOA\_V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 E3YC4

Quant Time: Apr 19 06:00:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM041819S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Apr 18 13:50:36 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 319045   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 321077   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 171523   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 93593    | 23.10    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 92.40%  |
| 7) Chloroethane-d5             | 1.57   | 69    | 76419    | 22.46    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 89.84%  |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 218983   | 22.40    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 89.60%  |
| 20) 2-Butanone-d5              | 3.93   | 46    | 72726    | 57.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 115.28% |
| 24) Chloroform-d               | 4.40   | 84    | 212406   | 25.32    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 101.28% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 128624   | 25.98    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 103.92% |
| 29) Benzene-d6                 | 5.10   | 84    | 396623   | 24.13    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 96.52%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 120734   | 25.10    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 100.40% |
| 37) Toluene-d8                 | 7.36   | 98    | 394366   | 24.96    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 99.84%  |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 57699    | 24.39    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 97.56%  |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 59627    | 55.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 111.34% |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 129035   | 26.82    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 107.28% |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 173300   | 25.70    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 102.80% |

## Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 111600 | 23.061 ug/L | 98     |
| 3) Chloromethane               | 1.25 | 50  | 99027  | 23.546 ug/L | 97     |
| 5) Vinyl chloride              | 1.32 | 62  | 100653 | 22.909 ug/L | 100    |
| 6) Bromomethane                | 1.51 | 94  | 83895  | 29.853 ug/L | 97     |
| 8) Chloroethane                | 1.59 | 64  | 63547  | 22.694 ug/L | 96     |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 205688 | 22.795 ug/L | 97     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 103967 | 21.873 ug/L | 98     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 92406  | 22.295 ug/L | 97     |
| 13) Acetone                    | 2.19 | 43  | 60604  | 45.516 ug/L | 99     |
| 14) Carbon disulfide           | 2.31 | 76  | 229982 | 22.496 ug/L | 99     |
| 15) Methyl Acetate             | 2.46 | 43  | 54225  | 24.950 ug/L | 96     |
| 16) Methylene chloride         | 2.53 | 84  | 107767 | 21.147 ug/L | 98     |
| 17) Methyl tert-butyl Ether    | 2.80 | 73  | 258446 | 25.894 ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 92518  | 23.531 ug/L | 95     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 168082 | 25.027 ug/L | 97     |
| 21) 2-Butanone                 | 4.02 | 43  | 75480  | 52.294 ug/L | 97     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 109175 | 24.376 ug/L | 98     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane         | 4.30  | 128  | 58012    | 25.879 | ug/L   | 99       |
| 25) Chloroform                 | 4.42  | 83   | 194408   | 24.840 | ug/L   | 99       |
| 27) 1,2-Dichloroethane         | 5.18  | 62   | 143248   | 25.617 | ug/L   | 99       |
| 30) Cyclohexane                | 4.72  | 56   | 127988   | 21.750 | ug/L   | 97       |
| 31) 1,1,1-Trichloroethane      | 4.66  | 97   | 162489   | 22.955 | ug/L   | 98       |
| 32) Carbon tetrachloride       | 4.87  | 117  | 154122   | 23.076 | ug/L   | 99       |
| 34) Benzene                    | 5.15  | 78   | 373509   | 23.839 | ug/L   | 100      |
| 35) Trichloroethene            | 5.96  | 95   | 108044   | 23.308 | ug/L   | 99       |
| 36) Methylcyclohexane          | 6.18  | 83   | 152230   | 22.553 | ug/L   | 98       |
| 40) 1,2-Dichloropropane        | 6.22  | 63   | 95956    | 23.878 | ug/L   | 100      |
| 41) Bromodichloromethane       | 6.55  | 83   | 142891   | 25.339 | ug/L   | 100      |
| 42) cis-1,3-Dichloropropene    | 7.07  | 75   | 162903   | 26.878 | ug/L   | 99       |
| 43) 4-Methyl-2-pentanone       | 7.27  | 43   | 164014   | 52.239 | ug/L   | 97       |
| 44) Toluene                    | 7.43  | 91   | 427973   | 24.229 | ug/L   | 98       |
| 45) trans-1,3-Dichloropropene  | 7.69  | 75   | 146299   | 25.890 | ug/L   | 99       |
| 46) 1,1,2-Trichloroethane      | 7.88  | 97   | 91473    | 25.266 | ug/L   | 99       |
| 47) Tetrachloroethene          | 8.02  | 164  | 92960    | 22.475 | ug/L   | 96       |
| 49) 2-Hexanone                 | 8.18  | 43   | 115031   | 52.343 | ug/L # | 97       |
| 50) Dibromochloromethane       | 8.29  | 129  | 120001   | 26.996 | ug/L   | 100      |
| 51) 1,2-Dibromoethane          | 8.40  | 107  | 93304    | 25.988 | ug/L   | 99       |
| 52) Chlorobenzene              | 8.93  | 112  | 300887   | 24.482 | ug/L   | 98       |
| 53) Ethylbenzene               | 9.05  | 91   | 485983   | 24.217 | ug/L   | 100      |
| 54) m,p-Xylene                 | 9.18  | 106  | 189360   | 24.377 | ug/L   | 91       |
| 55) o-xylene                   | 9.59  | 106  | 186761   | 24.929 | ug/L   | 95       |
| 56) Styrene                    | 9.60  | 104  | 325304   | 25.429 | ug/L   | 99       |
| 57) Isopropylbenzene           | 9.97  | 105  | 489722   | 24.531 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 118780   | 25.373 | ug/L   | 100      |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 89264    | 26.332 | ug/L   | 100      |
| 62) Bromoform                  | 9.77  | 173  | 70936    | 26.752 | ug/L   | 97       |
| 63) 1,3-Dichlorobenzene        | 11.22 | 146  | 258930   | 24.753 | ug/L   | 97       |
| 64) 1,4-Dichlorobenzene        | 11.32 | 146  | 264281   | 24.504 | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 254779   | 25.226 | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 20545    | 25.454 | ug/L   | 93       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 203963   | 23.443 | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 171725   | 24.698 | ug/L   | 97       |
| 69) Naphthalene                | 13.55 | 128  | 324341   | 25.260 | ug/L   | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 166309   | 24.615 | ug/L   | 99       |

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

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