

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070219\  
 Data File : VW011107.D  
 Acq On : 02 Jul 2019 14:03  
 Operator : SY/VA  
 Sample : K3599-24  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GAM31

Quant Time: Jul 03 05:22:03 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM070219S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jul 02 12:27:54 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 390526   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 351914   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 172493   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 143919   | 24.13    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 96.52%  |
| 7) Chloroethane-d5             | 2.88   | 69    | 99866    | 23.87    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 95.48%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 294654   | 23.33    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 93.32%  |
| 20) 2-Butanone-d5              | 7.07   | 46    | 125836   | 53.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 107.14% |
| 24) Chloroform-d               | 7.64   | 84    | 253917   | 23.72    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 94.88%  |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 167244   | 25.37    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 101.48% |
| 29) Benzene-d6                 | 8.27   | 84    | 541890   | 24.99    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 99.96%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 176360   | 24.98    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 99.92%  |
| 37) Toluene-d8                 | 10.32  | 98    | 486204   | 25.17    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 100.68% |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 77321    | 25.76    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 103.04% |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 87156    | 53.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 107.66% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 149966   | 25.68    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 102.72% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 163753   | 24.73    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 98.92%  |

## Target Compounds

| Target Compounds             | R.T. | QIon | Response | Conc   | Units | Ovalue |
|------------------------------|------|------|----------|--------|-------|--------|
| 3) Chloromethane             | 2.21 | 50   | 96654    | 18.535 | ug/L  | 99     |
| 6) Bromomethane              | 2.76 | 94   | 27176    | 8.535  | ug/L  | 97     |
| 9) Trichlorofluoromethane    | 3.25 | 101  | 28804    | 12.361 | ug/L  | 99     |
| 12) 1,1-Dichloroethene       | 4.04 | 96   | 105036   | 20.467 | ug/L  | 92     |
| 13) Acetone                  | 4.12 | 43   | 161011   | 70.176 | ug/L  | 99     |
| 15) Methyl Acetate           | 4.66 | 43   | 148007   | 39.644 | ug/L  | 99     |
| 16) Methylene chloride       | 4.92 | 84   | 60626    | 10.564 | ug/L  | 95     |
| 17) Methyl tert-butyl Ether  | 5.42 | 73   | 247731   | 31.126 | ug/L  | 99     |
| 18) trans-1,2-Dichloroethene | 5.42 | 96   | 52733    | 10.168 | ug/L  | 96     |
| 22) cis-1,2-Dichloroethene   | 7.16 | 96   | 136968   | 24.399 | ug/L  | 96     |
| 23) Bromochloromethane       | 7.51 | 128  | 34593    | 14.686 | ug/L  | 94     |
| 27) 1,2-Dichloroethane       | 8.40 | 62   | 76311    | 10.011 | ug/L  | 99     |
| 30) Cyclohexane              | 7.95 | 56   | 104989   | 9.812  | ug/L  | 99     |
| 31) 1,1,1-Trichloroethane    | 7.87 | 97   | 71360    | 9.770  | ug/L  | 99     |
| 32) Carbon tetrachloride     | 8.06 | 117  | 80871    | 11.806 | ug/L  | 100    |
| 35) Trichloroethene          | 9.09 | 95   | 215438   | 38.816 | ug/L  | 99     |
| 36) Methylcyclohexane        | 9.33 | 83   | 250468   | 25.077 | ug/L  | 99     |

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Quant Time: Jul 03 05:22:03 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM070219S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jul 02 12:27:54 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| -----                          |       |      |          |        |       |          |
| 40) 1,2-Dichloropropane        | 9.37  | 63   | 76681    | 12.723 | ug/L  | 99       |
| 41) Bromodichloromethane       | 9.64  | 83   | 135318   | 19.475 | ug/L  | 96       |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75   | 147826   | 16.624 | ug/L  | 98       |
| 44) Toluene                    | 10.38 | 91   | 453321   | 19.913 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 61845    | 8.405  | ug/L  | 99       |
| 47) Tetrachloroethene          | 10.86 | 164  | 162459   | 38.730 | ug/L  | 99       |
| 49) 2-Hexanone                 | 10.97 | 43   | 169407   | 41.657 | ug/L  | 99       |
| 50) Dibromochloromethane       | 11.13 | 129  | 84967    | 19.118 | ug/L  | 96       |
| 53) Ethylbenzene               | 11.73 | 91   | 377220   | 14.608 | ug/L  | 99       |
| 54) m,p-Xylene                 | 11.85 | 106  | 91662    | 9.777  | ug/L  | 100      |
| 55) o-xylene                   | 12.16 | 106  | 107857   | 12.093 | ug/L  | 97       |
| 57) Isopropylbenzene           | 12.46 | 105  | 296560   | 12.181 | ug/L  | 100      |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 206383   | 19.447 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 99277    | 10.050 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 18021    | 18.581 | ug/L  | 94       |
| -----                          |       |      |          |        |       |          |

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

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