

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW121119\  
 Data File : VW014297.D  
 Acq On : 11 Dec 2019 11:25  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02514

Quant Time: Dec 12 04:54:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM120519S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Dec 11 15:52:44 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 1258637  | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 1099851  | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 534308   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 488268   | 25.62    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 102.48% |
| 7) Chloroethane-d5             | 2.89   | 69    | 402935   | 28.43    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 113.72% |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 891418   | 26.48    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 105.92% |
| 20) 2-Butanone-d5              | 7.07   | 46    | 252411   | 50.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 101.64% |
| 24) Chloroform-d               | 7.65   | 84    | 900495   | 28.10    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 112.40% |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 454846   | 27.07    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 108.28% |
| 29) Benzene-d6                 | 8.27   | 84    | 1869309  | 29.00    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 116.00% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 575661   | 29.03    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 116.12% |
| 37) Toluene-d8                 | 10.32  | 98    | 1691946  | 29.03    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 116.12% |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 227140   | 27.30    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 109.20% |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 200388   | 50.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 101.64% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 416738   | 25.79    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 103.16% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 544066   | 26.65    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 106.60% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 288481   | 24.098 | ug/L  | 99     |
| 3) Chloromethane               | 2.21 | 50   | 277311   | 23.043 | ug/L  | 98     |
| 5) Vinyl chloride              | 2.36 | 62   | 425070   | 23.856 | ug/L  | 94     |
| 6) Bromomethane                | 2.78 | 94   | 250306   | 22.774 | ug/L  | 99     |
| 8) Chloroethane                | 2.92 | 64   | 249868   | 24.545 | ug/L  | 96     |
| 9) Trichlorofluoromethane      | 3.26 | 101  | 275643   | 31.248 | ug/L  | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101  | 384608   | 23.167 | ug/L  | 94     |
| 12) 1,1-Dichloroethene         | 4.04 | 96   | 378904   | 22.544 | ug/L  | 81     |
| 13) Acetone                    | 4.12 | 43   | 239782   | 50.074 | ug/L  | 99     |
| 14) Carbon disulfide           | 4.38 | 76   | 1168261  | 22.663 | ug/L  | 100    |
| 15) Methyl Acetate             | 4.67 | 43   | 175613   | 19.389 | ug/L  | 98     |
| 16) Methylene chloride         | 4.92 | 84   | 406125   | 21.049 | ug/L  | 96     |
| 17) Methyl tert-butyl Ether    | 5.42 | 73   | 475946   | 21.473 | ug/L  | 100    |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96   | 397345   | 22.075 | ug/L  | 91     |
| 19) 1,1-Dichloroethane         | 6.21 | 63   | 723647   | 22.377 | ug/L  | 99     |
| 21) 2-Butanone                 | 7.16 | 43   | 264424   | 41.130 | ug/L  | 97     |
| 22) cis-1,2-Dichloroethene     | 7.16 | 96   | 420076   | 21.933 | ug/L  | 97     |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 179131   | 20.333 | ug/L   | 83       |
| 25) Chloroform                  | 7.67  | 83   | 697778   | 22.205 | ug/L   | 100      |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 433619   | 21.072 | ug/L   | 97       |
| 30) Cyclohexane                 | 7.95  | 56   | 692977   | 25.243 | ug/L   | 97       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 557511   | 25.240 | ug/L   | 97       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 515257   | 24.585 | ug/L   | 100      |
| 34) Benzene                     | 8.32  | 78   | 1650413  | 23.699 | ug/L   | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 414078   | 23.239 | ug/L   | 95       |
| 36) Methylcyclohexane           | 9.33  | 83   | 724611   | 24.201 | ug/L   | 95       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 409954   | 22.914 | ug/L   | 99       |
| 41) Bromodichloromethane        | 9.64  | 83   | 485600   | 22.334 | ug/L   | 99       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 612032   | 22.843 | ug/L   | 100      |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 468143   | 39.681 | ug/L   | 98       |
| 44) Toluene                     | 10.38 | 91   | 1721856  | 23.584 | ug/L   | 99       |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 479569   | 22.112 | ug/L   | 100      |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 276674   | 20.637 | ug/L   | 99       |
| 47) Tetrachloroethene           | 10.86 | 164  | 338087   | 22.765 | ug/L   | 96       |
| 49) 2-Hexanone                  | 10.96 | 43   | 355125   | 42.281 | ug/L   | 98       |
| 50) Dibromochloromethane        | 11.13 | 129  | 315870   | 20.993 | ug/L   | 99       |
| 51) 1,2-Dibromoethane           | 11.23 | 107  | 258140   | 20.328 | ug/L   | 95       |
| 52) Chlorobenzene               | 11.66 | 112  | 1038060  | 21.999 | ug/L   | 94       |
| 53) Ethylbenzene                | 11.73 | 91   | 1875563  | 23.675 | ug/L   | 99       |
| 54) m,p-Xylene                  | 11.83 | 106  | 718688   | 23.583 | ug/L   | 99       |
| 55) o-xylene                    | 12.16 | 106  | 675457   | 23.368 | ug/L   | 98       |
| 56) Styrene                     | 12.18 | 104  | 1154687  | 23.351 | ug/L   | 98       |
| 57) Isopropylbenzene            | 12.46 | 105  | 1818519  | 24.234 | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 326581   | 19.626 | ug/L   | 97       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 242027   | 19.574 | ug/L   | 100      |
| 62) Bromoform                   | 12.35 | 173  | 173877   | 19.174 | ug/L   | 98       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 789726   | 21.990 | ug/L   | 97       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 791679   | 21.697 | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 718468   | 21.513 | ug/L   | 94       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.48 | 75   | 48201    | 18.710 | ug/L # | 82       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 591480   | 22.892 | ug/L   | 100      |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 444325   | 22.059 | ug/L   | 98       |
| 69) Naphthalene                 | 15.36 | 128  | 774305   | 20.441 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 403367   | 21.355 | ug/L   | 98       |

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

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