

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071320\  
 Data File : VW015850.D  
 Acq On : 13 Jul 2020 18:08  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02525

Quant Time: Jul 14 03:44:39 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM071320S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jul 14 03:37:11 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 321608   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 308383   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 161922   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 122911   | 22.10    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 88.40%  |
| 7) Chloroethane-d5             | 2.90   | 69    | 125235   | 22.24    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 88.96%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 173795   | 22.87    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 91.48%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 38687    | 45.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 90.16%  |
| 24) Chloroform-d               | 7.65   | 84    | 208875   | 23.85    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 95.40%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 110112   | 23.39    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 93.56%  |
| 29) Benzene-d6                 | 8.27   | 84    | 419583   | 24.51    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 98.04%  |
| 33) 1,2-Dichloropropane-d6     | 9.28   | 67    | 115876   | 23.79    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 95.16%  |
| 37) Toluene-d8                 | 10.32  | 98    | 405594   | 24.71    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 98.84%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 49808    | 23.68    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 94.72%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 35305    | 50.61    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 101.22% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 95296    | 24.14    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 96.56%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 151387   | 24.88    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 99.52%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 44774    | 21.273 | ug/L  | 97     |
| 3) Chloromethane               | 2.22 | 50   | 72870    | 20.874 | ug/L  | 99     |
| 5) Vinyl chloride              | 2.37 | 62   | 138701   | 22.881 | ug/L  | 99     |
| 6) Bromomethane                | 2.79 | 94   | 113201   | 20.521 | ug/L  | 100    |
| 8) Chloroethane                | 2.93 | 64   | 101332   | 22.948 | ug/L  | 99     |
| 9) Trichlorofluoromethane      | 3.26 | 101  | 139035   | 23.207 | ug/L  | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101  | 79749    | 22.278 | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 4.04 | 96   | 80080    | 23.702 | ug/L  | 91     |
| 13) Acetone                    | 4.12 | 43   | 30875    | 47.175 | ug/L  | 100    |
| 14) Carbon disulfide           | 4.38 | 76   | 255345   | 22.834 | ug/L  | 99     |
| 15) Methyl Acetate             | 4.68 | 43   | 30783    | 22.926 | ug/L  | 100    |
| 16) Methylene chloride         | 4.91 | 84   | 106953   | 25.093 | ug/L  | 97     |
| 17) Methyl tert-butyl Ether    | 5.43 | 73   | 125010   | 24.191 | ug/L  | 98     |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96   | 99521    | 23.982 | ug/L  | 97     |
| 19) 1,1-Dichloroethane         | 6.22 | 63   | 170789   | 23.761 | ug/L  | 99     |
| 21) 2-Butanone                 | 7.18 | 43   | 43209    | 48.586 | ug/L  | 100    |
| 22) cis-1,2-Dichloroethene     | 7.18 | 96   | 105123   | 24.175 | ug/L  | 99     |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.52  | 128  | 48114    | 24.758 | ug/L  | 97       |
| 25) Chloroform                  | 7.68  | 83   | 187165   | 23.938 | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 122700   | 24.024 | ug/L  | 99       |
| 30) Cyclohexane                 | 7.96  | 56   | 155850   | 24.759 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 165437   | 24.269 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 156486   | 24.532 | ug/L  | 100      |
| 34) Benzene                     | 8.33  | 78   | 423567   | 24.680 | ug/L  | 100      |
| 35) Trichloroethene             | 9.10  | 95   | 113162   | 24.286 | ug/L  | 97       |
| 36) Methylcyclohexane           | 9.34  | 83   | 199168   | 24.969 | ug/L  | 100      |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 100855   | 24.711 | ug/L  | 99       |
| 41) Bromodichloromethane        | 9.65  | 83   | 136950   | 24.612 | ug/L  | 98       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 156737   | 25.575 | ug/L  | 99       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 93955    | 48.960 | ug/L  | 100      |
| 44) Toluene                     | 10.39 | 91   | 485063   | 25.110 | ug/L  | 98       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 134669   | 24.704 | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 77170    | 24.420 | ug/L  | 98       |
| 47) Tetrachloroethene           | 10.87 | 164  | 91222    | 24.055 | ug/L  | 95       |
| 49) 2-Hexanone                  | 10.97 | 43   | 65986    | 48.514 | ug/L  | 99       |
| 50) Dibromochloromethane        | 11.13 | 129  | 95129    | 25.103 | ug/L  | 97       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 74873    | 24.902 | ug/L  | 98       |
| 52) Chlorobenzene               | 11.66 | 112  | 313933   | 24.740 | ug/L  | 97       |
| 53) Ethylbenzene                | 11.73 | 91   | 551241   | 25.197 | ug/L  | 99       |
| 54) m,p-Xylene                  | 11.84 | 106  | 221114   | 26.339 | ug/L  | 94       |
| 55) o-xylene                    | 12.17 | 106  | 208035   | 26.072 | ug/L  | 96       |
| 56) Styrene                     | 12.18 | 104  | 357867   | 26.620 | ug/L  | 98       |
| 57) Isopropylbenzene            | 12.46 | 105  | 571041   | 26.092 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.72 | 83   | 89389    | 24.819 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 65152    | 24.628 | ug/L  | 100      |
| 62) Bromoform                   | 12.35 | 173  | 50082    | 22.903 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 250760   | 24.594 | ug/L  | 98       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 255937   | 24.780 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 231819   | 25.092 | ug/L  | 90       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 13592    | 23.797 | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 171657   | 25.255 | ug/L  | 97       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 138804   | 26.153 | ug/L  | 99       |
| 69) Naphthalene                 | 15.37 | 128  | 248648   | 26.297 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 121511   | 25.660 | ug/L  | 99       |

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

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