

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW052620\  
 Data File : VW015491.D  
 Acq On : 26 May 2020 23:07  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10.0mL/MSVOA W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02515

Quant Time: May 27 01:09:27 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM052620S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed May 27 01:05:50 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 359737   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 330905   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 160573   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 65427    | 19.85    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 79.40%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 71461    | 21.80    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 87.20%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 168458   | 20.97    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 83.88%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 56055    | 52.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 104.16% |
| 24) Chloroform-d               | 7.65   | 84    | 196204   | 23.58    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 94.32%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 110506   | 23.88    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 95.52%  |
| 29) Benzene-d6                 | 8.27   | 84    | 364064   | 22.43    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 89.72%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 114498   | 23.22    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 92.88%  |
| 37) Toluene-d8                 | 10.32  | 98    | 343358   | 21.76    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 87.04%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 51885    | 22.74    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 90.96%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 45919    | 53.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 107.56% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 95569    | 25.74    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 102.96% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 128107   | 23.81    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 95.24%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 76386    | 24.035 | ug/L  | 96     |
| 3) Chloromethane               | 2.21 | 50   | 79438    | 22.706 | ug/L  | 100    |
| 5) Vinyl chloride              | 2.37 | 62   | 126205   | 23.988 | ug/L  | 99     |
| 6) Bromomethane                | 2.78 | 94   | 84893    | 24.825 | ug/L  | 99     |
| 8) Chloroethane                | 2.93 | 64   | 79570    | 24.845 | ug/L  | 99     |
| 9) Trichlorofluoromethane      | 3.26 | 101  | 82905    | 22.143 | ug/L  | 98     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101  | 103481   | 23.303 | ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 4.04 | 96   | 102450   | 23.884 | ug/L  | 92     |
| 13) Acetone                    | 4.12 | 43   | 40944    | 49.208 | ug/L  | 100    |
| 14) Carbon disulfide           | 4.38 | 76   | 330507   | 23.096 | ug/L  | 98     |
| 15) Methyl Acetate             | 4.67 | 43   | 49832    | 27.682 | ug/L  | 100    |
| 16) Methylene chloride         | 4.92 | 84   | 114197   | 25.865 | ug/L  | 97     |
| 17) Methyl tert-butyl Ether    | 5.43 | 73   | 181526   | 26.667 | ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96   | 118329   | 25.741 | ug/L  | 97     |
| 19) 1,1-Dichloroethane         | 6.22 | 63   | 215795   | 26.099 | ug/L  | 99     |
| 21) 2-Butanone                 | 7.18 | 43   | 66085    | 51.702 | ug/L  | 99     |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96   | 126965   | 26.476 | ug/L  | 96     |

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 Quant Title : VOC Analysis  
 QLast Update : Wed May 27 01:05:50 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane         | 7.52  | 128  | 55360    | 26.771 | ug/L   | 99       |
| 25) Chloroform                 | 7.68  | 83   | 220652   | 26.503 | ug/L   | 100      |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 154963   | 27.513 | ug/L   | 99       |
| 30) Cyclohexane                | 7.96  | 56   | 195063   | 23.847 | ug/L   | 99       |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97   | 186146   | 25.145 | ug/L   | 99       |
| 32) Carbon tetrachloride       | 8.07  | 117  | 169347   | 24.941 | ug/L   | 100      |
| 34) Benzene                    | 8.32  | 78   | 483709   | 26.139 | ug/L   | 100      |
| 35) Trichloroethene            | 9.09  | 95   | 126722   | 25.494 | ug/L   | 99       |
| 36) Methylcyclohexane          | 9.34  | 83   | 217938   | 24.583 | ug/L   | 100      |
| 40) 1,2-Dichloropropane        | 9.37  | 63   | 121047   | 26.562 | ug/L   | 99       |
| 41) Bromodichloromethane       | 9.65  | 83   | 160262   | 26.324 | ug/L   | 98       |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75   | 190280   | 26.093 | ug/L   | 100      |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43   | 150363   | 56.288 | ug/L   | 100      |
| 44) Toluene                    | 10.39 | 91   | 527529   | 26.166 | ug/L   | 98       |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 168179   | 26.501 | ug/L   | 97       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 88613    | 27.794 | ug/L   | 99       |
| 47) Tetrachloroethene          | 10.87 | 164  | 99041    | 25.135 | ug/L   | 93       |
| 49) 2-Hexanone                 | 10.97 | 43   | 103177   | 57.222 | ug/L   | 99       |
| 50) Dibromochloromethane       | 11.13 | 129  | 104403   | 26.953 | ug/L   | 96       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 84028    | 27.453 | ug/L   | 99       |
| 52) Chlorobenzene              | 11.66 | 112  | 330142   | 26.107 | ug/L   | 99       |
| 53) Ethylbenzene               | 11.73 | 91   | 605731   | 26.165 | ug/L   | 100      |
| 54) m,p-Xylene                 | 11.84 | 106  | 230443   | 26.528 | ug/L   | 99       |
| 55) o-xylene                   | 12.16 | 106  | 219300   | 26.596 | ug/L   | 98       |
| 56) Styrene                    | 12.18 | 104  | 376629   | 26.731 | ug/L   | 99       |
| 57) Isopropylbenzene           | 12.46 | 105  | 593588   | 25.842 | ug/L   | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 104204   | 28.232 | ug/L # | 99       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 78216    | 27.947 | ug/L   | 100      |
| 62) Bromoform                  | 12.35 | 173  | 60373    | 26.985 | ug/L   | 99       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 260912   | 26.554 | ug/L   | 98       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 258845   | 26.886 | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 230815   | 27.032 | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 17970    | 27.743 | ug/L   | 95       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 183682   | 27.002 | ug/L   | 100      |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 149722   | 27.327 | ug/L   | 97       |
| 69) Naphthalene                | 15.36 | 128  | 301110   | 30.267 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.56 | 180  | 136861   | 29.362 | ug/L   | 97       |

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

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