

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW042619\  
 Data File : VW010150.D  
 Acq On : 26 Apr 2019 09:27  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02523

Quant Time: Apr 26 23:16:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042419S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Apr 26 01:05:00 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 816930   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 753868   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 369213   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 219398   | 28.09    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 112.36% |
| 7) Chloroethane-d5             | 2.89   | 69    | 174820   | 27.09    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 108.36% |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 528189   | 23.05    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 92.20%  |
| 20) 2-Butanone-d5              | 7.07   | 46    | 180462   | 48.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 97.88%  |
| 24) Chloroform-d               | 7.64   | 84    | 509635   | 23.43    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 93.72%  |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 288391   | 22.67    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 90.68%  |
| 29) Benzene-d6                 | 8.27   | 84    | 1018913  | 23.86    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 95.44%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 311946   | 23.43    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 93.72%  |
| 37) Toluene-d8                 | 10.32  | 98    | 929189   | 23.96    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 95.84%  |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 142388   | 23.22    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 92.88%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 148091   | 52.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 105.90% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 269335   | 24.38    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 97.52%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 327846   | 23.98    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 95.92%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 298956   | 27.203 | ug/L  | 94     |
| 3) Chloromethane               | 2.21 | 50   | 223036   | 25.931 | ug/L  | 93     |
| 5) Vinyl chloride              | 2.37 | 62   | 275921   | 28.395 | ug/L  | 97     |
| 6) Bromomethane                | 2.78 | 94   | 156627   | 26.432 | ug/L  | 100    |
| 8) Chloroethane                | 2.93 | 64   | 160473   | 27.307 | ug/L  | 93     |
| 9) Trichlorofluoromethane      | 3.26 | 101  | 146461   | 27.684 | ug/L  | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101  | 240083   | 23.378 | ug/L  | 96     |
| 12) 1,1-Dichloroethene         | 4.04 | 96   | 251344   | 23.744 | ug/L  | 81     |
| 13) Acetone                    | 4.12 | 43   | 135380   | 48.645 | ug/L  | 100    |
| 14) Carbon disulfide           | 4.38 | 76   | 751615   | 24.496 | ug/L  | 100    |
| 15) Methyl Acetate             | 4.67 | 43   | 150624   | 22.875 | ug/L  | 98     |
| 16) Methylene chloride         | 4.92 | 84   | 257178   | 22.461 | ug/L  | 97     |
| 17) Methyl tert-butyl Ether    | 5.43 | 73   | 329240   | 23.563 | ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 5.41 | 96   | 262274   | 23.326 | ug/L  | 97     |
| 19) 1,1-Dichloroethane         | 6.21 | 63   | 486618   | 22.867 | ug/L  | 98     |
| 21) 2-Butanone                 | 7.17 | 43   | 200609   | 46.487 | ug/L  | 99     |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96   | 282679   | 23.480 | ug/L  | 97     |

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 Quant Title : VOC Analysis  
 QLast Update : Fri Apr 26 01:05:00 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 128177   | 24.241 | ug/L  | 95       |
| 25) Chloroform                  | 7.67  | 83   | 491484   | 23.394 | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 346376   | 22.372 | ug/L  | 97       |
| 30) Cyclohexane                 | 7.95  | 56   | 467469   | 23.890 | ug/L  | 98       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 387188   | 23.881 | ug/L  | 98       |
| 32) Carbon tetrachloride        | 8.06  | 117  | 380966   | 23.734 | ug/L  | 99       |
| 34) Benzene                     | 8.32  | 78   | 1080981  | 23.574 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 280535   | 23.197 | ug/L  | 98       |
| 36) Methylcyclohexane           | 9.34  | 83   | 494065   | 24.378 | ug/L  | 98       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 278097   | 23.501 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.64  | 83   | 352889   | 23.077 | ug/L  | 99       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 437652   | 23.781 | ug/L  | 100      |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 431408   | 47.317 | ug/L  | 99       |
| 44) Toluene                     | 10.38 | 91   | 1159315  | 23.883 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 378478   | 23.833 | ug/L  | 98       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 204964   | 23.874 | ug/L  | 98       |
| 47) Tetrachloroethene           | 10.86 | 164  | 228054   | 24.713 | ug/L  | 97       |
| 49) 2-Hexanone                  | 10.97 | 43   | 318659   | 49.449 | ug/L  | 96       |
| 50) Dibromochloromethane        | 11.13 | 129  | 250027   | 24.304 | ug/L  | 95       |
| 51) 1,2-Dibromoethane           | 11.23 | 107  | 203767   | 23.885 | ug/L  | 100      |
| 52) Chlorobenzene               | 11.66 | 112  | 723503   | 23.557 | ug/L  | 99       |
| 53) Ethylbenzene                | 11.73 | 91   | 1305730  | 23.967 | ug/L  | 99       |
| 54) m,p-Xylene                  | 11.84 | 106  | 489633   | 24.297 | ug/L  | 99       |
| 55) o-xylene                    | 12.16 | 106  | 465474   | 24.358 | ug/L  | 99       |
| 56) Styrene                     | 12.18 | 104  | 804980   | 24.768 | ug/L  | 99       |
| 57) Isopropylbenzene            | 12.46 | 105  | 1261006  | 24.252 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 261087   | 24.010 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 195501   | 23.757 | ug/L  | 99       |
| 62) Bromoform                   | 12.35 | 173  | 146009   | 23.801 | ug/L  | 98       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 558062   | 23.756 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 575513   | 23.608 | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 524831   | 24.154 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 45300    | 22.429 | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 427753   | 24.831 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 15.14 | 180  | 347105   | 24.765 | ug/L  | 98       |
| 69) Naphthalene                 | 15.37 | 128  | 753637   | 21.773 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 324365   | 24.717 | ug/L  | 100      |

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

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