

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW022420\  
 Data File : VW015026.D  
 Acq On : 24 Feb 2020 11:27  
 Operator : SY/VA  
 Sample : VSTD05004  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD05004

Quant Time: Feb 24 11:52:39 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM022420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Feb 24 11:37:55 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 736106   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 677334   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 300674   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |      |      |
|--------------------------------|-------|-----|---------|-------|------|------|
| 4) Vinyl Chloride-d3           | 2.35  | 65  | 854440  | 70.12 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 618476  | 63.39 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.02  | 63  | 1430275 | 64.24 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.07  | 46  | 285727  | 83.55 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.65  | 84  | 1135320 | 54.32 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 607744  | 52.55 | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.27  | 84  | 2298582 | 52.77 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.27  | 67  | 753765  | 53.10 | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.32 | 98  | 2023788 | 52.79 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.57 | 79  | 282793  | 50.45 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.92 | 63  | 213463  | 82.50 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 455153  | 42.58 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.85 | 152 | 525070  | 45.03 | ug/L | 0.00 |

## Target Compounds

|                                |       |     |         |              | Qvalue |
|--------------------------------|-------|-----|---------|--------------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 345338  | 45.633 ug/L  | 94     |
| 3) Chloromethane               | 2.21  | 50  | 676007  | 58.951 ug/L  | 99     |
| 5) Vinyl chloride              | 2.37  | 62  | 925551  | 61.816 ug/L  | 99     |
| 6) Bromomethane                | 2.78  | 94  | 410068  | 54.771 ug/L  | 99     |
| 8) Chloroethane                | 2.93  | 64  | 513931  | 62.734 ug/L  | 97     |
| 9) Trichlorofluoromethane      | 3.26  | 101 | 447339  | 73.909 ug/L  | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07  | 101 | 595730  | 55.758 ug/L  | 100    |
| 12) 1,1-Dichloroethene         | 4.04  | 96  | 588553  | 56.364 ug/L  | 80     |
| 13) Acetone                    | 4.12  | 43  | 336459  | 95.311 ug/L  | 99     |
| 14) Carbon disulfide           | 4.38  | 76  | 2098146 | 66.921 ug/L  | 99     |
| 15) Methyl Acetate             | 4.67  | 43  | 289708  | 49.872 ug/L  | 99     |
| 16) Methylene chloride         | 4.92  | 84  | 619516  | 46.196 ug/L  | 98     |
| 17) Methyl tert-butyl Ether    | 5.42  | 73  | 711749  | 52.174 ug/L  | 100    |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 601661  | 56.868 ug/L  | 96     |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 1290947 | 60.229 ug/L  | 99     |
| 21) 2-Butanone                 | 7.16  | 43  | 429598  | 103.941 ug/L | 98     |
| 22) cis-1,2-Dichloroethene     | 7.16  | 96  | 621653  | 54.324 ug/L  | 94     |
| 23) Bromochloromethane         | 7.51  | 128 | 224285  | 47.770 ug/L  | 98     |
| 25) Chloroform                 | 7.67  | 83  | 1139519 | 57.876 ug/L  | 99     |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 771404  | 56.828 ug/L  | 99     |
| 30) Cyclohexane                | 7.95  | 56  | 1364990 | 67.635 ug/L  | 100    |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97  | 896168  | 58.026 ug/L  | 100    |
| 32) Carbon tetrachloride       | 8.07  | 117 | 808385  | 58.229 ug/L  | 99     |
| 34) Benzene                    | 8.32  | 78  | 2670920 | 57.345 ug/L  | 100    |
| 35) Trichloroethene            | 9.09  | 95  | 634835  | 54.986 ug/L  | 99     |
| 36) Methylcyclohexane          | 9.34  | 83  | 1204132 | 59.873 ug/L  | 99     |
| 40) 1,2-Dichloropropane        | 9.37  | 63  | 716281  | 57.467 ug/L  | 100    |
| 41) Bromodichloromethane       | 9.64  | 83  | 804582  | 56.324 ug/L  | 100    |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75  | 1030389 | 58.217 ug/L  | 100    |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 822974  | 100.693 ug/L | 100    |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
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 VSTD05004

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 44) Toluene                    | 10.38 | 91   | 2708803  | 57.288  | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 809428   | 56.791  | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 389177   | 47.430  | ug/L  | 99       |
| 47) Tetrachloroethene          | 10.86 | 164  | 417992   | 49.272  | ug/L  | 94       |
| 49) 2-Hexanone                 | 10.96 | 43   | 608745   | 106.036 | ug/L  | 99       |
| 50) Dibromochloromethane       | 11.13 | 129  | 428507   | 48.591  | ug/L  | 98       |
| 51) 1,2-Dibromoethane          | 11.23 | 107  | 347461   | 45.512  | ug/L  | 94       |
| 52) Chlorobenzene              | 11.65 | 112  | 1499308  | 51.862  | ug/L  | 98       |
| 53) Ethylbenzene               | 11.73 | 91   | 3022734  | 58.435  | ug/L  | 100      |
| 54) m,p-Xylene                 | 11.83 | 106  | 1070806  | 56.672  | ug/L  | 98       |
| 55) o-xylene                   | 12.16 | 106  | 1014058  | 56.390  | ug/L  | 97       |
| 56) Styrene                    | 12.18 | 104  | 1724529  | 56.742  | ug/L  | 97       |
| 57) Isopropylbenzene           | 12.46 | 105  | 2773182  | 57.422  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 480237   | 46.890  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 366369   | 47.548  | ug/L  | 100      |
| 62) Bromoform                  | 12.35 | 173  | 204619   | 44.642  | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 1035624  | 50.990  | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 1033440  | 50.513  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 923310   | 49.701  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 14.48 | 75   | 75571    | 47.710  | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 715609   | 49.195  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 571651   | 49.739  | ug/L  | 99       |
| 69) Naphthalene                | 15.36 | 128  | 524585   | 23.204  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.55 | 180  | 502456   | 47.348  | ug/L  | 99       |

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

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