

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW010421\  
 Data File : VW017787.D  
 Acq On : 04 Jan 2021 14:37  
 Operator : SY/VA  
 Sample : L5214-04  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 MDL-SOIL-QT1-2021-02

Quant Time: Jan 04 17:34:51 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SFAMWLM123020SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Mon Jan 04 13:03:14 2021  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 273803   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 254093   | 25.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 121479   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 114301   | 24.56    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 98.24%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 95590    | 23.63    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 94.52%  |
| 11) 1,1-Dichloroethene-d2      | 4.02   | 63    | 155098   | 19.80    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 79.20%  |
| 21) 2-Butanone-d5              | 7.08   | 46    | 55047    | 46.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 93.66%  |
| 24) Chloroform-d               | 7.65   | 84    | 190411   | 24.53    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 98.12%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 111744   | 24.84    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 99.36%  |
| 32) Benzene-d6                 | 8.27   | 84    | 375080   | 25.47    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 101.88% |
| 36) 1,2-Dichloropropane-d6     | 9.27   | 67    | 108418   | 25.74    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 102.96% |
| 41) Toluene-d8                 | 10.32  | 98    | 353605   | 25.03    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 100.12% |
| 43) trans-1,3-Dichloropropene- | 10.58  | 79    | 50303    | 25.10    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 100.40% |
| 47) 2-Hexanone-d5              | 10.93  | 63    | 38217    | 48.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 97.12%  |
| 56) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 96222    | 23.60    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 94.40%  |
| 66) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 112279   | 24.92    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 99.68%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 3494     | 1.059 | ug/L # | 84     |
| 3) Chloromethane               | 2.21 | 50   | 3637     | 1.267 | ug/L   | 89     |
| 5) Vinyl chloride              | 2.36 | 62   | 5411     | 1.143 | ug/L # | 40     |
| 6) Bromomethane                | 2.78 | 94   | 4174     | 0.997 | ug/L   | 71     |
| 8) Chloroethane                | 2.93 | 64   | 3346m    | 1.069 | ug/L   |        |
| 9) Trichlorofluoromethane      | 3.26 | 101  | 2781     | 0.864 | ug/L   | 95     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101  | 4960m    | 1.345 | ug/L   |        |
| 12) 1,1-Dichloroethene         | 4.04 | 96   | 4679m    | 1.338 | ug/L   |        |
| 13) Acetone                    | 4.14 | 43   | 3260m    | 4.085 | ug/L   |        |
| 14) Carbon disulfide           | 4.39 | 76   | 8996     | 0.897 | ug/L # | 88     |
| 15) Methyl Acetate             | 4.68 | 43   | 2178m    | 1.264 | ug/L   |        |
| 16) Methylene chloride         | 4.92 | 84   | 7423     | 1.682 | ug/L   | 96     |
| 17) trans-1,2-Dichloroethene   | 5.43 | 96   | 3867m    | 1.032 | ug/L   |        |
| 18) Methyl tert-butyl Ether    | 5.43 | 73   | 5424m    | 1.136 | ug/L   |        |
| 19) 1,1-Dichloroethane         | 6.21 | 63   | 6641     | 1.000 | ug/L   | 96     |
| 20) cis-1,2-Dichloroethene     | 7.17 | 96   | 4219m    | 1.052 | ug/L   |        |
| 22) 2-Butanone                 | 7.17 | 43   | 4954m    | 3.736 | ug/L   |        |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SFAMWLM123020SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Mon Jan 04 13:03:14 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| -----                         |       |      |          |       |        |          |
| 23) Bromochloromethane        | 7.51  | 128  | 1867m    | 1.017 | ug/L   |          |
| 25) Chloroform                | 7.67  | 83   | 8520     | 1.210 | ug/L   | 99       |
| 27) 1,2-Dichloroethane        | 8.40  | 62   | 5227     | 1.039 | ug/L   | 97       |
| 29) Cyclohexane               | 7.96  | 56   | 5781     | 0.969 | ug/L # | 55       |
| 30) 1,1,1-Trichloroethane     | 7.87  | 97   | 6239m    | 1.068 | ug/L   |          |
| 31) Carbon tetrachloride      | 8.07  | 117  | 5515     | 1.005 | ug/L   | 99       |
| 33) Benzene                   | 8.32  | 78   | 14560    | 0.981 | ug/L   | 100      |
| 34) Trichloroethene           | 9.09  | 95   | 4153     | 1.025 | ug/L   | 94       |
| 35) Methylcyclohexane         | 9.33  | 83   | 6641     | 0.957 | ug/L   | 94       |
| 37) 1,2-Dichloropropane       | 9.37  | 63   | 3805     | 1.059 | ug/L # | 94       |
| 38) Bromodichloromethane      | 9.65  | 83   | 5302     | 1.045 | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene   | 10.07 | 75   | 5168     | 0.901 | ug/L   | 99       |
| 42) Toluene                   | 10.38 | 91   | 16810    | 1.000 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 10.61 | 75   | 4537     | 0.868 | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane     | 10.79 | 97   | 2914     | 0.967 | ug/L   | 93       |
| 46) Tetrachloroethene         | 10.87 | 164  | 3014     | 0.971 | ug/L   | 88       |
| 48) 2-Hexanone                | 10.97 | 43   | 4788     | 2.681 | ug/L # | 87       |
| 49) Dibromochloromethane      | 11.13 | 129  | 3245     | 0.938 | ug/L   | 96       |
| 50) 1,2-Dibromoethane         | 11.23 | 107  | 2884     | 0.968 | ug/L # | 93       |
| 51) Chlorobenzene             | 11.66 | 112  | 10623    | 0.996 | ug/L   | 92       |
| 52) Ethylbenzene              | 11.73 | 91   | 18513    | 0.965 | ug/L   | 84       |
| 53) m,p-Xylene                | 11.84 | 106  | 6567     | 0.884 | ug/L   | 96       |
| 54) o-Xylene                  | 12.16 | 106  | 6157     | 0.879 | ug/L   | 93       |
| 55) Styrene                   | 12.18 | 104  | 9838     | 0.820 | ug/L   | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 12.71 | 83   | 4338     | 1.107 | ug/L # | 98       |
| 59) Bromoform                 | 12.35 | 173  | 1562     | 0.859 | ug/L   | 99       |
| 60) Isopropylbenzene          | 12.46 | 105  | 17341    | 0.978 | ug/L   | 98       |
| 61) 1,2,3-Trichloropropane    | 12.76 | 75   | 2925     | 1.096 | ug/L # | 91       |
| 62) 1,3,5-Trimethylbenzene    | 12.94 | 105  | 13305    | 0.943 | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene    | 13.25 | 105  | 13752    | 0.958 | ug/L   | 96       |
| 64) 1,3-Dichlorobenzene       | 13.50 | 146  | 7950     | 1.039 | ug/L   | 95       |
| 65) 1,4-Dichlorobenzene       | 13.58 | 146  | 7961     | 1.047 | ug/L   | 95       |
| 67) 1,2-Dichlorobenzene       | 13.87 | 146  | 7507     | 1.093 | ug/L   | 97       |
| 69) 1,3,5-Trichlorobenzene    | 14.63 | 180  | 5680     | 1.097 | ug/L   | 96       |
| 70) 1,2,4-trichlorobenzene    | 15.13 | 180  | 4537     | 1.012 | ug/L   | 94       |
| 71) Naphthalene               | 15.36 | 128  | 9791     | 0.948 | ug/L   | 98       |
| 72) 1,2,3-Trichlorobenzene    | 15.55 | 180  | 3844     | 0.975 | ug/L   | 95       |
| -----                         |       |      |          |       |        |          |

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

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