

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW022019\  
 Data File : VW008761.D  
 Acq On : 20 Feb 2019 18:27  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02587

Quant Time: Feb 21 06:48:14 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM022019S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Feb 20 13:48:33 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 376472   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 373495   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 202964   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 132998   | 22.71    | ug/L | -0.01   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 90.84%  |
| 7) Chloroethane-d5             | 2.88   | 69    | 119231   | 22.68    | ug/L | -0.01   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 90.72%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 229533   | 23.57    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 94.28%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 104506   | 59.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 119.68% |
| 24) Chloroform-d               | 7.65   | 84    | 217155   | 23.85    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 95.40%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 127240   | 23.68    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 94.72%  |
| 29) Benzene-d6                 | 8.27   | 84    | 429288   | 23.94    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 95.76%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 124966   | 23.79    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 95.16%  |
| 37) Toluene-d8                 | 10.32  | 98    | 439723   | 24.49    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 97.96%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 63340    | 24.06    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 96.24%  |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 84212    | 58.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 117.70% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 142180   | 26.96    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 107.84% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 179978   | 24.88    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 99.52%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 2.00 | 85  | 186688 | 25.814 | ug/L 92  |
| 3) Chloromethane               | 2.21 | 50  | 185001 | 24.748 | ug/L 95  |
| 5) Vinyl chloride              | 2.36 | 62  | 190819 | 24.898 | ug/L 95  |
| 6) Bromomethane                | 2.77 | 94  | 116977 | 23.019 | ug/L 97  |
| 8) Chloroethane                | 2.92 | 64  | 115963 | 22.598 | ug/L 96  |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 230822 | 25.185 | ug/L 100 |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 134407 | 24.832 | ug/L 98  |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 115524 | 24.601 | ug/L 86  |
| 13) Acetone                    | 4.13 | 43  | 105198 | 63.493 | ug/L 98  |
| 14) Carbon disulfide           | 4.38 | 76  | 406364 | 25.042 | ug/L 100 |
| 15) Methyl Acetate             | 4.67 | 43  | 90185  | 27.291 | ug/L 92  |
| 16) Methylene chloride         | 4.92 | 84  | 137712 | 22.622 | ug/L 91  |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 318647 | 24.128 | ug/L 97  |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96  | 126817 | 24.529 | ug/L 94  |
| 19) 1,1-Dichloroethane         | 6.22 | 63  | 212809 | 24.243 | ug/L 94  |
| 21) 2-Butanone                 | 7.17 | 43  | 137092 | 59.134 | ug/L 93  |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 132215 | 23.844 | ug/L 93  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW022019\  
 Data File : VW008761.D  
 Acq On : 20 Feb 2019 18:27  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02587

Quant Time: Feb 21 06:48:14 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM022019S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Feb 20 13:48:33 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| -----                           |       |      |          |        |        |          |
| 23) Bromochloromethane          | 7.51  | 128  | 60151    | 23.708 | ug/L # | 80       |
| 25) Chloroform                  | 7.67  | 83   | 222582   | 24.087 | ug/L   | 100      |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 162241   | 24.142 | ug/L # | 92       |
| 30) Cyclohexane                 | 7.96  | 56   | 218449   | 24.849 | ug/L   | 96       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 210324   | 24.392 | ug/L   | 98       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 191412   | 24.290 | ug/L   | 97       |
| 34) Benzene                     | 8.32  | 78   | 492505   | 24.307 | ug/L   | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 132333   | 24.197 | ug/L   | 96       |
| 36) Methylcyclohexane           | 9.34  | 83   | 239717   | 24.702 | ug/L   | 97       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 119149   | 23.805 | ug/L   | 98       |
| 41) Bromodichloromethane        | 9.65  | 83   | 162698   | 23.906 | ug/L   | 100      |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 193008   | 23.773 | ug/L   | 99       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 248035   | 54.873 | ug/L   | 95       |
| 44) Toluene                     | 10.39 | 91   | 578063   | 24.816 | ug/L   | 99       |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 176244   | 24.310 | ug/L   | 96       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 101854   | 24.339 | ug/L   | 98       |
| 47) Tetrachloroethene           | 10.87 | 164  | 121466   | 24.396 | ug/L   | 92       |
| 49) 2-Hexanone                  | 10.97 | 43   | 193884   | 54.684 | ug/L   | 93       |
| 50) Dibromochloromethane        | 11.13 | 129  | 124122   | 24.466 | ug/L   | 99       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 105381   | 24.895 | ug/L   | 100      |
| 52) Chlorobenzene               | 11.66 | 112  | 377530   | 24.081 | ug/L   | 99       |
| 53) Ethylbenzene                | 11.73 | 91   | 663811   | 24.526 | ug/L   | 98       |
| 54) m,p-Xylene                  | 11.84 | 106  | 262059   | 24.623 | ug/L   | 93       |
| 55) o-xylene                    | 12.16 | 106  | 247943   | 24.217 | ug/L   | 92       |
| 56) Styrene                     | 12.18 | 104  | 419701   | 24.442 | ug/L   | 92       |
| 57) Isopropylbenzene            | 12.46 | 105  | 666687   | 24.409 | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 144409   | 25.721 | ug/L   | 93       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 108919   | 26.239 | ug/L   | 98       |
| 62) Bromoform                   | 12.35 | 173  | 78421    | 24.957 | ug/L # | 99       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 321818   | 24.294 | ug/L   | 95       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 326148   | 24.234 | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 299310   | 24.393 | ug/L   | 96       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 29400    | 26.985 | ug/L   | 95       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 251962   | 24.157 | ug/L   | 97       |
| 68) 1,2,4-trichlorobenzene      | 15.14 | 180  | 214797   | 23.909 | ug/L   | 97       |
| 69) Naphthalene                 | 15.37 | 128  | 489686   | 26.476 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 200794   | 24.322 | ug/L   | 97       |
| -----                           |       |      |          |        |        |          |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW022019\  
Data File : VW008761.D  
Acq On : 20 Feb 2019 18:27  
Operator : SY/VA  
Sample : VSTDCCC025EC  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02587

Quant Time: Feb 21 06:48:14 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM022019S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Feb 20 13:48:33 2019  
Response via : Initial Calibration

