

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092719\  
 Data File : VW013314.D  
 Acq On : 27 Sep 2019 09:33  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02508

Quant Time: Sep 28 03:30:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092619S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Sep 26 12:57:49 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 515531   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 451959   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 231317   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 164620   | 26.78    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 107.12% |
| 7) Chloroethane-d5             | 2.89   | 69    | 132495   | 26.85    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 107.40% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 316415   | 26.15    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 104.60% |
| 20) 2-Butanone-d5              | 7.07   | 46    | 107370   | 50.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 101.08% |
| 24) Chloroform-d               | 7.65   | 84    | 304036   | 26.16    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 104.64% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 161852   | 25.77    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 103.08% |
| 29) Benzene-d6                 | 8.27   | 84    | 654019   | 26.65    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 106.60% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 190919   | 26.11    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 104.44% |
| 37) Toluene-d8                 | 10.32  | 98    | 608397   | 26.33    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 105.32% |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 87030    | 26.49    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 105.96% |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 84347    | 52.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 105.42% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 160746   | 25.89    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 103.56% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 212814   | 25.75    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 103.00% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 92717    | 28.737 | ug/L  | 92     |
| 3) Chloromethane               | 2.21 | 50   | 112948   | 26.127 | ug/L  | 95     |
| 5) Vinyl chloride              | 2.36 | 62   | 165010   | 27.599 | ug/L  | 96     |
| 6) Bromomethane                | 2.78 | 94   | 98628    | 25.947 | ug/L  | 98     |
| 8) Chloroethane                | 2.92 | 64   | 97336    | 26.837 | ug/L  | 99     |
| 9) Trichlorofluoromethane      | 3.26 | 101  | 98852    | 26.677 | ug/L  | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101  | 151337   | 25.844 | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 4.04 | 96   | 151420   | 25.479 | ug/L  | 95     |
| 13) Acetone                    | 4.13 | 43   | 91521    | 51.754 | ug/L  | 97     |
| 14) Carbon disulfide           | 4.38 | 76   | 440828   | 26.131 | ug/L  | 100    |
| 15) Methyl Acetate             | 4.67 | 43   | 82861    | 24.283 | ug/L  | 100    |
| 16) Methylene chloride         | 4.92 | 84   | 164878   | 21.407 | ug/L  | 99     |
| 17) Methyl tert-butyl Ether    | 5.42 | 73   | 250799   | 24.399 | ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96   | 160312   | 25.228 | ug/L  | 96     |
| 19) 1,1-Dichloroethane         | 6.21 | 63   | 277403   | 24.888 | ug/L  | 98     |
| 21) 2-Butanone                 | 7.17 | 43   | 123558   | 48.510 | ug/L  | 99     |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96   | 169627   | 24.499 | ug/L  | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092719\  
 Data File : VW013314.D  
 Acq On : 27 Sep 2019 09:33  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02508

Quant Time: Sep 28 03:30:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092619S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Sep 26 12:57:49 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 75639    | 24.276 | ug/L  | 95       |
| 25) Chloroform                  | 7.67  | 83   | 270210   | 24.669 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 176242   | 24.569 | ug/L  | 99       |
| 30) Cyclohexane                 | 7.95  | 56   | 277921   | 25.604 | ug/L  | 100      |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 218409   | 25.178 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 211867   | 25.615 | ug/L  | 100      |
| 34) Benzene                     | 8.32  | 78   | 643767   | 25.407 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 168718   | 25.346 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.34  | 83   | 296058   | 24.967 | ug/L  | 100      |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 157189   | 25.216 | ug/L  | 99       |
| 41) Bromodichloromethane        | 9.64  | 83   | 193409   | 25.287 | ug/L  | 99       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 254919   | 25.601 | ug/L  | 99       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 229914   | 48.177 | ug/L  | 99       |
| 44) Toluene                     | 10.38 | 91   | 693870   | 25.153 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 203291   | 25.399 | ug/L  | 96       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 119101   | 24.384 | ug/L  | 95       |
| 47) Tetrachloroethene           | 10.86 | 164  | 148528   | 24.797 | ug/L  | 98       |
| 49) 2-Hexanone                  | 10.97 | 43   | 171818   | 50.087 | ug/L  | 99       |
| 50) Dibromochloromethane        | 11.13 | 129  | 141793   | 25.309 | ug/L  | 94       |
| 51) 1,2-Dibromoethane           | 11.23 | 107  | 118120   | 24.615 | ug/L  | 100      |
| 52) Chlorobenzene               | 11.66 | 112  | 431771   | 24.840 | ug/L  | 97       |
| 53) Ethylbenzene                | 11.73 | 91   | 766818   | 25.076 | ug/L  | 96       |
| 54) m,p-Xylene                  | 11.84 | 106  | 296317   | 25.237 | ug/L  | 97       |
| 55) o-xylene                    | 12.16 | 106  | 278971   | 25.178 | ug/L  | 100      |
| 56) Styrene                     | 12.18 | 104  | 480136   | 25.273 | ug/L  | 97       |
| 57) Isopropylbenzene            | 12.46 | 105  | 757170   | 25.273 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 145708   | 24.215 | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 106957   | 23.820 | ug/L  | 100      |
| 62) Bromoform                   | 12.35 | 173  | 86900    | 23.746 | ug/L  | 98       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 347133   | 24.388 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 342359   | 23.804 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 315571   | 24.367 | ug/L  | 96       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.48 | 75   | 22640    | 22.197 | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 268871   | 24.533 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 213095   | 24.358 | ug/L  | 98       |
| 69) Naphthalene                 | 15.36 | 128  | 417910   | 25.004 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 194893   | 24.494 | ug/L  | 99       |

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092719\  
 Data File : VW013314.D  
 Acq On : 27 Sep 2019 09:33  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02508

Quant Time: Sep 28 03:30:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092619S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Sep 26 12:57:49 2019  
 Response via : Initial Calibration

