

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW111119\  
 Data File : VW013961.D  
 Acq On : 11 Nov 2019 13:51  
 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: Nov 12 06:01:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM111119S.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Nov 11 13:59:57 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 331510   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 316570   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 188916   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 134152   | 25.36    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 101.44% |
| 7) Chloroethane-d5             | 2.89   | 69    | 109807   | 25.61    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 102.44% |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 271366   | 25.00    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 100.00% |
| 20) 2-Butanone-d5              | 7.07   | 46    | 87745    | 57.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 114.20% |
| 24) Chloroform-d               | 7.65   | 84    | 259498   | 25.46    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 101.84% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 135342   | 26.41    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 105.64% |
| 29) Benzene-d6                 | 8.27   | 84    | 563734   | 25.10    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 100.40% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 168970   | 25.68    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 102.72% |
| 37) Toluene-d8                 | 10.32  | 98    | 536405   | 25.18    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 100.72% |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 77445    | 27.48    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 109.92% |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 74902    | 60.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 120.06% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 139074   | 27.99    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 111.96% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 191520   | 25.23    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 100.92% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 95196    | 24.146 | ug/L  | 96     |
| 3) Chloromethane               | 2.21 | 50   | 76963    | 21.978 | ug/L  | 100    |
| 5) Vinyl chloride              | 2.36 | 62   | 137680   | 25.180 | ug/L  | 96     |
| 6) Bromomethane                | 2.78 | 94   | 82265    | 24.301 | ug/L  | 100    |
| 8) Chloroethane                | 2.92 | 64   | 80649    | 24.796 | ug/L  | 94     |
| 9) Trichlorofluoromethane      | 3.26 | 101  | 86573    | 23.219 | ug/L  | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101  | 140954   | 25.603 | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 4.04 | 96   | 142627   | 25.486 | ug/L  | 92     |
| 13) Acetone                    | 4.12 | 43   | 75660    | 48.389 | ug/L  | 98     |
| 14) Carbon disulfide           | 4.39 | 76   | 411363   | 25.826 | ug/L  | 98     |
| 15) Methyl Acetate             | 4.67 | 43   | 75162    | 29.710 | ug/L  | 99     |
| 16) Methylene chloride         | 4.92 | 84   | 149292   | 23.392 | ug/L  | 97     |
| 17) Methyl tert-butyl Ether    | 5.42 | 73   | 195183   | 27.035 | ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96   | 149677   | 25.648 | ug/L  | 96     |
| 19) 1,1-Dichloroethane         | 6.21 | 63   | 257499   | 26.196 | ug/L  | 98     |
| 21) 2-Butanone                 | 7.17 | 43   | 108222   | 53.874 | ug/L  | 99     |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96   | 161784   | 26.344 | ug/L  | 99     |

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Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02523

Quant Time: Nov 12 06:01:21 2019  
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 Quant Title : VOC Analysis  
 QLast Update : Mon Nov 11 13:59:57 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 72483    | 26.888 | ug/L  | 95       |
| 25) Chloroform                  | 7.67  | 83   | 253612   | 26.272 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 162624   | 27.826 | ug/L  | 99       |
| 30) Cyclohexane                 | 7.95  | 56   | 259966   | 25.661 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 200458   | 25.267 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.06  | 117  | 193440   | 25.400 | ug/L  | 99       |
| 34) Benzene                     | 8.32  | 78   | 595488   | 25.645 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 157077   | 25.359 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.33  | 83   | 284768   | 25.641 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 146211   | 26.157 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.64  | 83   | 179726   | 26.596 | ug/L  | 97       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 239933   | 27.199 | ug/L  | 99       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 213684   | 57.898 | ug/L  | 99       |
| 44) Toluene                     | 10.38 | 91   | 651130   | 25.719 | ug/L  | 97       |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 193431   | 27.729 | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 112537   | 27.400 | ug/L  | 98       |
| 47) Tetrachloroethene           | 10.86 | 164  | 142479   | 25.807 | ug/L  | 96       |
| 49) 2-Hexanone                  | 10.96 | 43   | 155285   | 58.360 | ug/L  | 99       |
| 50) Dibromochloromethane        | 11.13 | 129  | 135194   | 28.005 | ug/L  | 97       |
| 51) 1,2-Dibromoethane           | 11.23 | 107  | 109393   | 27.451 | ug/L  | 96       |
| 52) Chlorobenzene               | 11.66 | 112  | 408812   | 25.758 | ug/L  | 97       |
| 53) Ethylbenzene                | 11.73 | 91   | 720907   | 25.949 | ug/L  | 100      |
| 54) m,p-Xylene                  | 11.84 | 106  | 281725   | 26.094 | ug/L  | 99       |
| 55) o-xylene                    | 12.16 | 106  | 265442   | 26.255 | ug/L  | 100      |
| 56) Styrene                     | 12.18 | 104  | 457851   | 26.808 | ug/L  | 98       |
| 57) Isopropylbenzene            | 12.46 | 105  | 727033   | 26.154 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 138259   | 28.833 | ug/L  | 95       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 102353   | 28.381 | ug/L  | 100      |
| 62) Bromoform                   | 12.35 | 173  | 86319    | 27.881 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 340626   | 25.679 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 335473   | 25.597 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 300199   | 25.557 | ug/L  | 96       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.48 | 75   | 21801    | 27.253 | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 268269   | 26.537 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 219499   | 27.614 | ug/L  | 99       |
| 69) Naphthalene                 | 15.36 | 128  | 420115   | 29.750 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 193642   | 27.604 | ug/L  | 99       |

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

