

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW062419\  
 Data File : VW010922.D  
 Acq On : 24 Jun 2019 08:55  
 Operator : SY/VA  
 Sample : VSTD00503  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD00503

Manual Integrations  
 APPROVED

MMDadoda  
 6/25/2019 3:19:32 PM

Quant Time: Jun 24 10:14:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM062419S.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Jun 24 10:06:46 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 413059   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 370521   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 178121   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |      |      |      |
|--------------------------------|-------|-----|--------|------|------|------|
| 4) Vinyl Chloride-d3           | 2.35  | 65  | 26960  | 5.34 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 19486  | 4.69 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.02  | 63  | 62479  | 5.36 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.07  | 46  | 26759  | 9.49 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.65  | 84  | 55098  | 4.78 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.30  | 65  | 34803  | 4.64 | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.27  | 84  | 113195 | 5.10 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.27  | 67  | 36922  | 4.89 | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.32 | 98  | 100896 | 5.00 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.58 | 79  | 15786  | 5.06 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.93 | 63  | 17079  | 9.63 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 30846  | 4.79 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.86 | 152 | 34393  | 4.86 | ug/L | 0.00 |

## Target Compounds

|                                |       |     |        |             | Qvalue |
|--------------------------------|-------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 24385  | 4.518 ug/L  | 100    |
| 3) Chloromethane               | 2.21  | 50  | 27984  | 4.484 ug/L  | 99     |
| 5) Vinyl chloride              | 2.36  | 62  | 34498  | 5.435 ug/L  | 96     |
| 6) Bromomethane                | 2.77  | 94  | 17301  | 4.983 ug/L  | 97     |
| 8) Chloroethane                | 2.92  | 64  | 17908  | 4.921 ug/L  | 98     |
| 9) Trichlorofluoromethane      | 3.24  | 101 | 10508  | 5.545 ug/L  | 97     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06  | 101 | 27568m | 5.383 ug/L  |        |
| 12) 1,1-Dichloroethene         | 4.04  | 96  | 27232  | 5.353 ug/L  | 94     |
| 13) Acetone                    | 4.12  | 43  | 28362  | 13.325 ug/L | 97     |
| 14) Carbon disulfide           | 4.38  | 76  | 76601  | 5.306 ug/L  | 99     |
| 15) Methyl Acetate             | 4.67  | 43  | 21125  | 4.836 ug/L  | 100    |
| 16) Methylene chloride         | 4.92  | 84  | 30257  | 4.808 ug/L  | 98     |
| 17) Methyl tert-butyl Ether    | 5.42  | 73  | 44246  | 5.000 ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 28309  | 5.161 ug/L  | 97     |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 58102  | 5.195 ug/L  | 99     |
| 21) 2-Butanone                 | 7.16  | 43  | 35239  | 10.843 ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 7.16  | 96  | 30238  | 4.987 ug/L  | 98     |
| 23) Bromochloromethane         | 7.51  | 128 | 12874  | 4.886 ug/L  | 94     |
| 25) Chloroform                 | 7.67  | 83  | 52578  | 4.984 ug/L  | 100    |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 42396  | 4.974 ug/L  | 98     |
| 30) Cyclohexane                | 7.95  | 56  | 59552  | 5.622 ug/L  | 100    |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97  | 39766  | 5.744 ug/L  | 99     |
| 32) Carbon tetrachloride       | 8.07  | 117 | 36591  | 5.722 ug/L  | 100    |
| 34) Benzene                    | 8.32  | 78  | 119588 | 5.257 ug/L  | 100    |
| 35) Trichloroethene            | 9.09  | 95  | 30631  | 5.437 ug/L  | 99     |
| 36) Methylcyclohexane          | 9.33  | 83  | 55688  | 5.646 ug/L  | 100    |
| 40) 1,2-Dichloropropane        | 9.37  | 63  | 32930  | 5.176 ug/L  | 99     |
| 41) Bromodichloromethane       | 9.64  | 83  | 37225  | 5.087 ug/L  | 95     |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75  | 48503  | 5.193 ug/L  | 98     |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 62144  | 10.131 ug/L | 99     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| -----                          |       |      |          |        |       |          |
| 44) Toluene                    | 10.39 | 91   | 125617   | 5.319  | ug/L  | 98       |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 39325    | 5.020  | ug/L  | 98       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 22941    | 5.154  | ug/L  | 97       |
| 47) Tetrachloroethene          | 10.86 | 164  | 23536    | 5.671  | ug/L  | 90       |
| 49) 2-Hexanone                 | 10.97 | 43   | 45586    | 10.558 | ug/L  | 97       |
| 50) Dibromochloromethane       | 11.13 | 129  | 23692    | 5.000  | ug/L  | 96       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 21898    | 4.996  | ug/L  | 99       |
| 52) Chlorobenzene              | 11.66 | 112  | 75372    | 5.176  | ug/L  | 99       |
| 53) Ethylbenzene               | 11.73 | 91   | 139466   | 5.270  | ug/L  | 99       |
| 54) m,p-Xylene                 | 11.84 | 106  | 50205    | 5.214  | ug/L  | 99       |
| 55) o-xylene                   | 12.16 | 106  | 48628    | 5.138  | ug/L  | 99       |
| 56) Styrene                    | 12.18 | 104  | 82749    | 5.092  | ug/L  | 99       |
| 57) Isopropylbenzene           | 12.46 | 105  | 132559   | 5.354  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 29943    | 5.072  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 23622    | 5.037  | ug/L  | 100      |
| 62) Bromoform                  | 12.35 | 173  | 12949    | 4.810  | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 56623    | 5.135  | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 58439    | 5.192  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 52339    | 5.023  | ug/L  | 96       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 5401     | 5.057  | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 43717    | 5.237  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.14 | 180  | 35698    | 4.919  | ug/L  | 100      |
| 69) Naphthalene                | 15.37 | 128  | 74852    | 4.592  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.56 | 180  | 32919    | 4.880  | ug/L  | 100      |
| -----                          |       |      |          |        |       |          |

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

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