

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082120\  
 Data File : VW016276.D  
 Acq On : 20 Aug 2020 21:29  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 8/21/2020 11:25:51 AM

Quant Time: Aug 21 03:56:12 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W081420S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 17 08:01:41 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 223195   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 364029   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 331560   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 161628   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 116479   | 53.51 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.02% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 118697   | 52.85 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.70% |      |
| 50) Toluene-d8            | 10.32  | 98  | 461705   | 53.10 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.20% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 169430   | 54.52 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.04% |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 74445  | 49.047  | ug/l | 91     |
| 3) Chloromethane              | 2.21 | 50  | 72768  | 45.029  | ug/l | 98     |
| 4) Vinyl Chloride             | 2.36 | 62  | 100792 | 44.561  | ug/l | 98     |
| 5) Bromomethane               | 2.78 | 94  | 73493  | 52.257  | ug/l | 100    |
| 6) Chloroethane               | 2.92 | 64  | 61226  | 47.931  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 102183 | 55.802  | ug/l | 100    |
| 8) Diethyl Ether              | 3.68 | 74  | 60257  | 52.438  | ug/l | 93     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 115305 | 48.020  | ug/l | 99     |
| 10) Methyl Iodide             | 4.27 | 142 | 175431 | 50.564  | ug/l | 100    |
| 11) Tert butyl alcohol        | 5.16 | 59  | 39005  | 336.712 | ug/l | 95     |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 116014 | 47.477  | ug/l | 97     |
| 13) Acrolein                  | 3.89 | 56  | 52212  | 312.022 | ug/l | 99     |
| 14) Allyl chloride            | 4.67 | 41  | 156258 | 47.727  | ug/l | 97     |
| 15) Acrylonitrile             | 5.37 | 53  | 120914 | 279.255 | ug/l | 99     |
| 16) Acetone                   | 4.12 | 43  | 103392 | 247.962 | ug/l | 99     |
| 17) Carbon Disulfide          | 4.38 | 76  | 341224 | 47.558  | ug/l | 100    |
| 18) Methyl Acetate            | 4.67 | 43  | 51324  | 52.858  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73  | 173321 | 57.604  | ug/l | 97     |
| 20) Methylene Chloride        | 4.91 | 84  | 142443 | 55.542  | ug/l | 94     |
| 21) trans-1,2-Dichloroethene  | 5.43 | 96  | 131538 | 49.432  | ug/l | 99     |
| 22) Diisopropyl ether         | 6.31 | 45  | 314283 | 50.920  | ug/l | 98     |
| 23) Vinyl Acetate             | 6.26 | 43  | 951573 | 269.247 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 6.22 | 63  | 211773 | 49.160  | ug/l | 100    |
| 25) 2-Butanone                | 7.17 | 43  | 150099 | 268.604 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 135359 | 48.643  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 142536 | 51.895  | ug/l | 99     |
| 28) Bromochloromethane        | 7.51 | 49  | 80629  | 49.333  | ug/l | 95     |
| 29) Tetrahydrofuran           | 7.53 | 42  | 94853  | 283.959 | ug/l | 95     |
| 30) Chloroform                | 7.68 | 83  | 227433 | 50.813  | ug/l | 97     |
| 31) Cyclohexane               | 7.96 | 56  | 180874 | 45.535  | ug/l | 95     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 193214 | 51.380  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 175757 | 49.010  | ug/l | 98     |
| 37) Ethyl Acetate             | 7.25 | 43  | 67260  | 54.703  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 182451 | 50.981  | ug/l | 97     |

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 8/21/2020 11:25:51 AM

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 Quant Title : SW846 8260  
 QLast Update : Mon Aug 17 08:01:41 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 219584   | 50.833   | ug/l   | 97       |
| 40) Benzene                    | 8.32  | 78   | 498418   | 49.404   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.48  | 41   | 37394    | 53.288   | ug/l   | 93       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 139931   | 52.517   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 126582   | 54.721   | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 138609   | 48.510   | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 116389   | 48.941   | ug/l   | 99       |
| 46) Dibromomethane             | 9.46  | 93   | 67033    | 53.689   | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.65  | 83   | 170845   | 52.962   | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.43  | 41   | 59884    | 55.687   | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 21748    | 1383.313 | ug/l # | 92       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 333441   | 285.004  | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 330092   | 51.096   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 164187   | 54.971   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 195133   | 52.566   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 95131    | 53.102   | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 120508   | 58.986   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 161016   | 52.826   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 250333   | 268.753  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.97 | 43   | 227661   | 284.443  | ug/l   | 97       |
| 60) Dibromochloromethane       | 11.13 | 129  | 116489   | 54.660   | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 94170    | 54.605   | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.87 | 164  | 113467   | 52.156   | ug/l   | 92       |
| 65) Chlorobenzene              | 11.66 | 112  | 355288   | 52.281   | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 130099   | 54.769   | ug/l   | 97       |
| 67) Ethyl Benzene              | 11.73 | 91   | 633123   | 51.838   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.84 | 106  | 489026   | 104.170  | ug/l   | 99       |
| 69) o-Xylene                   | 12.17 | 106  | 231762   | 55.415   | ug/l   | 99       |
| 70) Styrene                    | 12.18 | 104  | 395551   | 54.655   | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 61457    | 57.810   | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.46 | 105  | 619649   | 50.310   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 119844   | 54.334   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 107403   | 52.114   | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 73487m   | 49.438   | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 141098   | 51.794   | ug/l   | 95       |
| 78) n-propylbenzene            | 12.80 | 91   | 736337   | 50.086   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 422484   | 49.748   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 541276   | 51.195   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 34363    | 55.450   | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 441342   | 49.919   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 452408   | 52.210   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 542400   | 51.843   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.38 | 105  | 638299   | 50.683   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 596320   | 52.351   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 271812   | 49.821   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 272217   | 50.671   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.82 | 91   | 549336   | 52.130   | ug/l   | 100      |
| 90) Hexachloroethane           | 14.10 | 117  | 108633   | 51.103   | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 244418   | 51.386   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 18281    | 57.703   | ug/l   | 95       |

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Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 154973   | 54.636 | ug/l  | 94       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 95315    | 56.521 | ug/l  | 96       |
| 95) Naphthalene            | 15.36 | 128  | 322145   | 53.869 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 136449   | 56.016 | ug/l  | 99       |

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

