

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW062320\  
 Data File : VW015670.D  
 Acq On : 23 Jun 2020 18:57  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 6/24/2020 10:58:25 AM

Quant Time: Jun 24 04:04:32 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W062320S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 23 13:20:19 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 196282   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 310455   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 298836   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 153081   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 118851   | 54.42 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.84% |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 101935   | 52.20 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.40% |      |
| 50) Toluene-d8            | 10.32  | 98  | 402310   | 52.35 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.70% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 154115   | 54.45 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.90% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 64010   | 54.693  | ug/l | 97     |
| 3) Chloromethane              | 2.21 | 50  | 67426   | 49.062  | ug/l | 100    |
| 4) Vinyl Chloride             | 2.37 | 62  | 109779  | 49.411  | ug/l | 99     |
| 5) Bromomethane               | 2.78 | 94  | 82192   | 50.333  | ug/l | 97     |
| 6) Chloroethane               | 2.93 | 64  | 73088   | 49.988  | ug/l | 97     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 78726   | 47.192  | ug/l | 97     |
| 8) Diethyl Ether              | 3.68 | 74  | 53929   | 55.976  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 94843   | 48.233  | ug/l | 99     |
| 10) Methyl Iodide             | 4.27 | 142 | 138603  | 49.850  | ug/l | 100    |
| 11) Tert butyl alcohol        | 5.18 | 59  | 37731   | 320.986 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 92843   | 48.490  | ug/l | 99     |
| 13) Acrolein                  | 3.90 | 56  | 42380   | 279.349 | ug/l | 99     |
| 14) Allyl chloride            | 4.67 | 41  | 153379  | 49.376  | ug/l | 99     |
| 15) Acrylonitrile             | 5.37 | 53  | 116056  | 291.966 | ug/l | 99     |
| 16) Acetone                   | 4.12 | 43  | 114845  | 276.623 | ug/l | 100    |
| 17) Carbon Disulfide          | 4.38 | 76  | 271140  | 49.203  | ug/l | 100    |
| 18) Methyl Acetate            | 4.68 | 43  | 51075   | 60.426  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 156905  | 54.452  | ug/l | 96     |
| 20) Methylene Chloride        | 4.92 | 84  | 136081  | 69.005  | ug/l | 96     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 108376  | 49.370  | ug/l | 99     |
| 22) Diisopropyl ether         | 6.32 | 45  | 322359  | 52.177  | ug/l | 98     |
| 23) Vinyl Acetate             | 6.26 | 43  | 1034361 | 287.095 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 193562  | 49.772  | ug/l | 100    |
| 25) 2-Butanone                | 7.18 | 43  | 162499  | 289.602 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 116764  | 44.765  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 120754  | 51.135  | ug/l | 98     |
| 28) Bromochloromethane        | 7.52 | 49  | 75807   | 50.675  | ug/l | 100    |
| 29) Tetrahydrofuran           | 7.54 | 42  | 101524  | 307.898 | ug/l | 100    |
| 30) Chloroform                | 7.68 | 83  | 200083  | 50.165  | ug/l | 99     |
| 31) Cyclohexane               | 7.96 | 56  | 173533  | 46.129  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 7.88 | 97  | 166879  | 49.085  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 158701  | 49.148  | ug/l | 100    |
| 37) Ethyl Acetate             | 7.26 | 43  | 72666   | 58.938  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 154739  | 49.436  | ug/l | 97     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW062320\  
 Data File : VW015670.D  
 Acq On : 23 Jun 2020 18:57  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 6/24/2020 10:58:25 AM

Quant Time: Jun 24 04:04:32 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W062320S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 23 13:20:19 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 193525   | 49.481   | ug/l   | 98       |
| 40) Benzene                    | 8.32  | 78   | 443429   | 50.504   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.49  | 41   | 42163    | 59.586   | ug/l   | 94       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 145026   | 53.393   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 145560   | 59.161   | ug/l   | 98       |
| 44) Trichloroethene            | 9.09  | 130  | 117177   | 49.514   | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 109822   | 51.173   | ug/l   | 99       |
| 46) Dibromomethane             | 9.46  | 93   | 60443    | 54.434   | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.65  | 83   | 152718   | 52.727   | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.44  | 41   | 68181    | 60.613   | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 18218    | 1250.686 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 365603   | 308.129  | ug/l   | 100      |
| 52) Toluene                    | 10.39 | 92   | 289930   | 51.140   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 155103   | 55.432   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 176769   | 52.883   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 84869    | 54.972   | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 116136   | 60.458   | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 149848   | 54.749   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 273566   | 300.942  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.97 | 43   | 255817   | 316.692  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 102064   | 56.731   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 83955    | 56.891   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.87 | 164  | 100618   | 47.927   | ug/l   | 99       |
| 65) Chlorobenzene              | 11.66 | 112  | 306444   | 48.637   | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 111614   | 50.523   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 573829   | 48.937   | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 433871   | 98.539   | ug/l   | 100      |
| 69) o-Xylene                   | 12.17 | 106  | 203007   | 50.145   | ug/l   | 99       |
| 70) Styrene                    | 12.18 | 104  | 357733   | 51.719   | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 58282    | 57.338   | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.47 | 105  | 565327   | 48.411   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 142030   | 57.374   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 102518   | 54.876   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 74898m   | 53.639   | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 131606   | 50.542   | ug/l   | 100      |
| 78) n-propylbenzene            | 12.80 | 91   | 680480   | 48.411   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 387949   | 49.018   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 489154   | 49.435   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 30851    | 55.678   | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 409446   | 48.901   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 411071   | 49.168   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 490335   | 49.690   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.38 | 105  | 585244   | 48.981   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 533116   | 49.108   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 253919   | 49.123   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 252108   | 49.245   | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.82 | 91   | 509536   | 48.893   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 95432    | 49.397   | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 230932   | 51.670   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 17648    | 58.994   | ug/l   | 99       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW062320\  
Data File : VW015670.D  
Acq On : 23 Jun 2020 18:57  
Operator : SY/VA  
Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

MMDadoda  
6/24/2020 10:58:25 AM

Quant Time: Jun 24 04:04:32 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W062320S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 23 13:20:19 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 154624   | 52.390 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 86344    | 45.922 | ug/l  | 95       |
| 95) Naphthalene            | 15.37 | 128  | 289990   | 59.406 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 134624   | 52.979 | ug/l  | 97       |

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

