

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW072321\  
 Data File : VW019587.D  
 Acq On : 23 Jul 2021 21:04  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_W/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 7/26/2021 5:19:52 PM

Quant Time: Jul 24 05:22:28 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W071921S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 20 04:37:55 2021  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Pentafluorobenzene        | 7.945  | 168   | 242885   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.848  | 114   | 418212   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.634 | 117   | 376606   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.554 | 152   | 183763   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.305  | 65    | 130757   | 56.200   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 50 - 163 | Recovery | =      | 112.400% |
| 35) Dibromofluoromethane     | 7.890  | 113   | 122946   | 48.118   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 54 - 147 | Recovery | =      | 96.240%  |
| 50) Toluene-d8               | 10.323 | 98    | 458654   | 46.362   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 49 - 140 | Recovery | =      | 92.720%  |
| 62) 4-Bromofluorobenzene     | 12.615 | 95    | 172094   | 46.376   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 25 - 144 | Recovery | =      | 92.760%  |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.013  | 85    | 82053    | 47.383   | ug/l   | 99       |
| 3) Chloromethane             | 2.221  | 50    | 108508   | 51.697   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.367  | 62    | 150883   | 52.739   | ug/l   | 97       |
| 5) Bromomethane              | 2.782  | 94    | 97349    | 58.962   | ug/l   | 93       |
| 6) Chloroethane              | 2.928  | 64    | 91282    | 56.280   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.269  | 101   | 111389   | 61.082   | ug/l   | 95       |
| 8) Diethyl Ether             | 3.690  | 74    | 79378    | 55.675   | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 4.074  | 101   | 139513   | 54.387   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.275  | 142   | 192835   | 57.732   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.171  | 59    | 47124    | 285.757  | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.050  | 96    | 142076   | 53.218   | ug/l   | 97       |
| 13) Acrolein                 | 3.897  | 56    | 33009    | 204.432  | ug/l   | 99       |
| 14) Allyl chloride           | 4.672  | 41    | 221030   | 57.644   | ug/l   | 100      |
| 15) Acrylonitrile            | 5.367  | 53    | 181441   | 298.191  | ug/l   | 99       |
| 16) Acetone                  | 4.123  | 43    | 133909   | 303.143  | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.391  | 76    | 399748   | 52.346   | ug/l   | 98       |
| 18) Methyl Acetate           | 4.672  | 43    | 80538    | 54.902   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.428  | 73    | 223174   | 59.441   | ug/l   | 100      |
| 20) Methylene Chloride       | 4.921  | 84    | 200023   | 70.880   | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.434  | 96    | 159334   | 54.825   | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.318  | 45    | 468701   | 57.126   | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.257  | 43    | 1405058  | 285.243  | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.220  | 63    | 299488   | 54.655   | ug/l   | 100      |
| 25) 2-Butanone               | 7.171  | 43    | 217405   | 286.107  | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 7.171  | 77    | 154264   | 52.880   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.171  | 96    | 179011   | 55.216   | ug/l   | 99       |
| 28) Bromochloromethane       | 7.519  | 49    | 121350   | 55.462   | ug/l   | 98       |
| 29) Tetrahydrofuran          | 7.531  | 42    | 145638   | 288.507  | ug/l   | 98       |
| 30) Chloroform               | 7.677  | 83    | 294645   | 55.025   | ug/l   | 97       |
| 31) Cyclohexane              | 7.958  | 56    | 250691   | 49.120   | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 7.878  | 97    | 220962   | 55.564   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.086  | 75    | 225831   | 50.652   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.250  | 43    | 99224    | 53.103   | ug/l   | 100      |
| 38) Carbon Tetrachloride     | 8.073  | 117   | 202328   | 51.947   | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.335  | 83    | 270561   | 51.056   | ug/l   | 98       |
| 40) Benzene                  | 8.329  | 78    | 653590   | 52.378   | ug/l   | 100      |

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 ALS Vial : 21 Sample Multiplier: 1

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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W071921S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 20 04:37:55 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.488  | 41   | 54904    | 51.754   | ug/l   | 88       |
| 42) 1,2-Dichloroethane        | 8.403  | 62   | 191410   | 53.169   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.427  | 43   | 186852   | 53.493   | ug/l   | 99       |
| 44) Trichloroethene           | 9.098  | 130  | 161104   | 51.233   | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.372  | 63   | 166228   | 52.748   | ug/l   | 99       |
| 46) Dibromomethane            | 9.463  | 93   | 85202    | 53.300   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.646  | 83   | 215188   | 53.593   | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.439  | 41   | 85834    | 53.632   | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.451  | 88   | 28080    | 1187.335 | ug/l # | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.207 | 43   | 501691   | 278.452  | ug/l   | 100      |
| 52) Toluene                   | 10.390 | 92   | 406433   | 52.472   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.609 | 75   | 215657   | 52.654   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.073 | 75   | 254993   | 52.323   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.786 | 97   | 121963   | 54.172   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.646 | 69   | 163135   | 55.339   | ug/l   | 100      |
| 57) 1,3-Dichloropropane       | 10.933 | 76   | 218581   | 53.679   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.927  | 63   | 364131   | 266.904  | ug/l   | 98       |
| 59) 2-Hexanone                | 10.969 | 43   | 337635   | 282.451  | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.128 | 129  | 136048   | 55.000   | ug/l   | 95       |
| 61) 1,2-Dibromoethane         | 11.237 | 107  | 116794   | 54.952   | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.866 | 164  | 129676   | 51.268   | ug/l   | 97       |
| 65) Chlorobenzene             | 11.658 | 112  | 419568   | 52.375   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.731 | 131  | 148708   | 53.968   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.731 | 91   | 778858   | 53.111   | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.841 | 106  | 599325   | 106.909  | ug/l   | 100      |
| 69) o-Xylene                  | 12.164 | 106  | 283634   | 54.119   | ug/l   | 97       |
| 70) Styrene                   | 12.182 | 104  | 488595   | 55.187   | ug/l   | 100      |
| 71) Bromoform                 | 12.347 | 173  | 78157    | 56.891   | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.463 | 105  | 753514   | 53.968   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.274 | 43   | 172764   | 54.082   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.713 | 83   | 143192   | 54.533   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.768 | 75   | 95401m   | 52.529   | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 169062   | 53.716   | ug/l   | 98       |
| 78) n-propylbenzene           | 12.804 | 91   | 918554   | 52.621   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.890 | 91   | 536767   | 52.300   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.944 | 105  | 641726   | 53.899   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.512 | 75   | 42008    | 52.713   | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.987 | 91   | 556346   | 52.421   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.207 | 119  | 549161   | 54.368   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.249 | 105  | 640677   | 53.772   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.383 | 105  | 824389   | 53.098   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.493 | 119  | 673186   | 52.618   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.499 | 146  | 343461   | 53.316   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.578 | 146  | 337427   | 52.919   | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.822 | 91   | 645862   | 51.568   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.091 | 117  | 120944   | 53.622   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.871 | 146  | 295478   | 52.152   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.481 | 75   | 23379    | 53.701   | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.127 | 180  | 195618   | 51.149   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.231 | 225  | 112160   | 51.838   | ug/l   | 98       |
| 95) Naphthalene               | 15.365 | 128  | 394719   | 56.351   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.554 | 180  | 181568   | 54.311   | ug/l   | 98       |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

