

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD041621\  
 Data File : VD068888.D  
 Acq On : 16 Apr 2021 21:05  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 4/19/2021 1:27:50 PM

Quant Time: Apr 16 23:53:11 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D040721S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 08 03:50:31 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|------------|---------|-------|----------|
| -----                        |                |      |            |         |       |          |
| Internal Standards           |                |      |            |         |       |          |
| 1) Pentafluorobenzene        | 7.985          | 168  | 187351     | 50.00   | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.867          | 114  | 317435     | 50.00   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.643         | 117  | 303355     | 50.00   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.572         | 152  | 148952     | 50.00   | ug/l  | 0.00     |
|                              |                |      |            |         |       |          |
| System Monitoring Compounds  |                |      |            |         |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.332          | 65   | 96139      | 48.55   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 97.10%  |       |          |
| 35) Dibromofluoromethane     | 7.920          | 113  | 107457     | 52.04   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 104.08% |       |          |
| 50) Toluene-d8               | 10.337         | 98   | 388472     | 49.87   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 99.74%  |       |          |
| 62) 4-Bromofluorobenzene     | 12.631         | 95   | 131147     | 50.70   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 101.40% |       |          |
|                              |                |      |            |         |       |          |
| Target Compounds             |                |      |            |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 69789      | 37.59   | ug/l  | 97       |
| 3) Chloromethane             | 2.208          | 50   | 88864      | 40.72   | ug/l  | 97       |
| 4) Vinyl Chloride            | 2.350          | 62   | 112853     | 41.16   | ug/l  | 96       |
| 5) Bromomethane              | 2.767          | 94   | 91410      | 44.60   | ug/l  | 95       |
| 6) Chloroethane              | 2.920          | 64   | 74643      | 41.43   | ug/l  | 98       |
| 7) Trichlorofluoromethane    | 3.273          | 101  | 139632     | 43.28   | ug/l  | 91       |
| 8) Diethyl Ether             | 3.714          | 74   | 43466      | 49.89   | ug/l  | 87       |
| 9) 1,1,2-Trichlorotrifluo... | 4.096          | 101  | 89970      | 46.21   | ug/l  | 98       |
| 10) Methyl Iodide            | 4.302          | 142  | 94172      | 41.72   | ug/l  | 99       |
| 11) Tert butyl alcohol       | 5.220          | 59   | 26491      | 252.31  | ug/l  | 99       |
| 12) 1,1-Dichloroethene       | 4.073          | 96   | 86278      | 46.01   | ug/l  | 99       |
| 13) Acrolein                 | 3.932          | 56   | 15138      | 194.24  | ug/l  | 98       |
| 14) Allyl chloride           | 4.714          | 41   | 92498      | 43.76   | ug/l  | 92       |
| 15) Acrylonitrile            | 5.426          | 53   | 88777      | 227.04  | ug/l  | 98       |
| 16) Acetone                  | 4.161          | 43   | 57082      | 208.18  | ug/l  | 99       |
| 17) Carbon Disulfide         | 4.408          | 76   | 266526     | 43.91   | ug/l  | 98       |
| 18) Methyl Acetate           | 4.720          | 43   | 36141      | 47.98   | ug/l  | 97       |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 210316     | 50.54   | ug/l  | 99       |
| 20) Methylene Chloride       | 4.967          | 84   | 116413     | 52.67   | ug/l  | 96       |
| 21) trans-1,2-Dichloroethene | 5.479          | 96   | 112843     | 46.86   | ug/l  | 98       |
| 22) Diisopropyl ether        | 6.367          | 45   | 233837     | 45.66   | ug/l  | 98       |
| 23) Vinyl Acetate            | 6.308          | 43   | 629172     | 231.84  | ug/l  | 95       |
| 24) 1,1-Dichloroethane       | 6.267          | 63   | 177207     | 45.90   | ug/l  | 98       |
| 25) 2-Butanone               | 7.214          | 43   | 87845      | 226.41  | ug/l  | 99       |
| 26) 2,2-Dichloropropane      | 7.208          | 77   | 133974     | 42.48   | ug/l  | 100      |
| 27) cis-1,2-Dichloroethene   | 7.214          | 96   | 116774     | 48.79   | ug/l  | 97       |
| 28) Bromochloromethane       | 7.543          | 49   | 65034      | 46.67   | ug/l  | 88       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 59002      | 226.12  | ug/l  | 91       |
| 30) Chloroform               | 7.708          | 83   | 202904     | 48.01   | ug/l  | 94       |
| 31) Cyclohexane              | 7.985          | 56   | 129068     | 39.17   | ug/l  | 97       |
| 32) 1,1,1-Trichloroethane    | 7.902          | 97   | 171723     | 46.50   | ug/l  | 98       |
| 36) 1,1-Dichloropropene      | 8.114          | 75   | 143302     | 44.60   | ug/l  | 98       |
| 37) Ethyl Acetate            | 7.296          | 43   | 42769      | 45.32   | ug/l  | 95       |
| 38) Carbon Tetrachloride     | 8.096          | 117  | 147833     | 46.47   | ug/l  | 99       |
| 39) Methylcyclohexane        | 9.355          | 83   | 161659     | 43.14   | ug/l  | 97       |
| 40) Benzene                  | 8.349          | 78   | 441186     | 46.92   | ug/l  | 98       |

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 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
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Manual Integrations  
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 4/19/2021 1:27:50 PM

Quant Time: Apr 16 23:53:11 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D040721S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 08 03:50:31 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.532  | 41   | 22844    | 40.89   | ug/l # | 78       |
| 42) 1,2-Dichloroethane        | 8.426  | 62   | 121092   | 48.72   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.455  | 43   | 88005    | 45.74   | ug/l   | 96       |
| 44) Trichloroethene           | 9.114  | 130  | 125262   | 48.23   | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.390  | 63   | 104202   | 46.40   | ug/l   | 93       |
| 46) Dibromomethane            | 9.479  | 93   | 61716    | 49.33   | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.661  | 83   | 161874   | 49.53   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.455  | 41   | 41793    | 44.08   | ug/l # | 81       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 13909    | 1050.12 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 229401   | 236.56  | ug/l   | 100      |
| 52) Toluene                   | 10.402 | 92   | 292303   | 49.10   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.620 | 75   | 139629   | 48.20   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.090 | 75   | 162459   | 46.88   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.802 | 97   | 87685    | 49.57   | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.661 | 69   | 93536    | 51.37   | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 10.943 | 76   | 138658   | 47.60   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.937  | 63   | 228760   | 236.93  | ug/l   | 96       |
| 59) 2-Hexanone                | 10.984 | 43   | 153263   | 236.21  | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.137 | 129  | 112096   | 50.54   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.243 | 107  | 83435    | 48.53   | ug/l   | 96       |
| 64) Tetrachloroethene         | 10.873 | 164  | 104694   | 49.24   | ug/l   | 97       |
| 65) Chlorobenzene             | 11.667 | 112  | 318703   | 48.53   | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.743 | 131  | 119169   | 50.48   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.743 | 91   | 550765   | 48.43   | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.849 | 106  | 434452   | 99.01   | ug/l   | 98       |
| 69) o-Xylene                  | 12.178 | 106  | 198970   | 49.87   | ug/l   | 98       |
| 70) Styrene                   | 12.190 | 104  | 353635   | 50.86   | ug/l   | 98       |
| 71) Bromoform                 | 12.361 | 173  | 63461    | 50.17   | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.478 | 105  | 528462   | 48.59   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.284 | 43   | 83887    | 45.48   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.725 | 83   | 91042    | 44.79   | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.778 | 75   | 59036m   | 43.38   | ug/l   |          |
| 77) Bromobenzene              | 12.755 | 156  | 130318   | 49.84   | ug/l   | 94       |
| 78) n-propylbenzene           | 12.820 | 91   | 618488   | 46.82   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.902 | 91   | 350091   | 47.44   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.955 | 105  | 441975   | 48.61   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.525 | 75   | 27188    | 46.37   | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 13.002 | 91   | 373148   | 47.71   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.220 | 119  | 365771   | 47.41   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.267 | 105  | 449504   | 48.95   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.396 | 105  | 512682   | 47.09   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.514 | 119  | 474411   | 47.71   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.514 | 146  | 248424   | 47.96   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.590 | 146  | 243883   | 47.57   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.837 | 91   | 428799   | 45.78   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.108 | 117  | 92700    | 46.80   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 13.884 | 146  | 215605   | 48.10   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.502 | 75   | 13606    | 44.03   | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.155 | 180  | 135956   | 49.01   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.261 | 225  | 76007    | 47.86   | ug/l   | 97       |
| 95) Naphthalene               | 15.396 | 128  | 245292   | 50.77   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.584 | 180  | 121782   | 50.20   | ug/l   | 99       |

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ALS Vial : 21 Sample Multiplier: 1

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ClientSampleId :  
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4/19/2021 1:27:50 PM

Quant Time: Apr 16 23:53:11 2021  
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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) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

