

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012920\  
 Data File : VD065001.D  
 Acq On : 29 Jan 2020 17:53  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 1/30/2020 10:27:16 AM

Quant Time: Jan 29 22:26:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D012320S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 13:45:59 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 446871   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 662035   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 594354   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 293801   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.34   | 65  | 215859   | 50.36 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.72% |      |
| 35) Dibromofluoromethane  | 7.92   | 113 | 210589   | 50.62 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.24% |      |
| 50) Toluene-d8            | 10.34  | 98  | 790649   | 49.24 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.48%  |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 247782   | 50.43 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.86% |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 158685  | 47.136  | ug/l   | 95     |
| 3) Chloromethane              | 2.21 | 50  | 240025  | 48.647  | ug/l   | 96     |
| 4) Vinyl Chloride             | 2.35 | 62  | 266159  | 46.967  | ug/l   | 98     |
| 5) Bromomethane               | 2.77 | 94  | 170139  | 44.632  | ug/l   | 100    |
| 6) Chloroethane               | 2.93 | 64  | 176303  | 47.189  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 413489  | 47.245  | ug/l   | 98     |
| 8) Diethyl Ether              | 3.71 | 74  | 97251   | 49.222  | ug/l   | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101 | 200319  | 49.196  | ug/l   | 99     |
| 10) Methyl Iodide             | 4.30 | 142 | 207368  | 47.978  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.26 | 59  | 54810   | 231.390 | ug/l # | 92     |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 190114  | 48.874  | ug/l   | 94     |
| 13) Acrolein                  | 3.93 | 56  | 80295   | 270.403 | ug/l   | 96     |
| 14) Allyl chloride            | 4.71 | 41  | 312793  | 50.418  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.43 | 53  | 219788  | 256.885 | ug/l   | 97     |
| 16) Acetone                   | 4.17 | 43  | 186429  | 178.358 | ug/l   | 100    |
| 17) Carbon Disulfide          | 4.40 | 76  | 600623  | 46.916  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.72 | 43  | 98862   | 49.245  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 5.49 | 73  | 445556  | 51.263  | ug/l   | 97     |
| 20) Methylene Chloride        | 4.97 | 84  | 237993  | 58.138  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 221775  | 49.485  | ug/l   | 98     |
| 22) Diisopropyl ether         | 6.37 | 45  | 649233  | 52.509  | ug/l   | 98     |
| 23) Vinyl Acetate             | 6.31 | 43  | 1909010 | 263.710 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.27 | 63  | 383505  | 50.518  | ug/l   | 97     |
| 25) 2-Butanone                | 7.23 | 43  | 276980  | 239.178 | ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 336109  | 48.812  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 241151  | 50.413  | ug/l   | 100    |
| 28) Bromochloromethane        | 7.55 | 49  | 172590  | 56.848  | ug/l   | 99     |
| 29) Tetrahydrofuran           | 7.57 | 42  | 180110  | 252.072 | ug/l   | 98     |
| 30) Chloroform                | 7.72 | 83  | 397160  | 50.611  | ug/l   | 100    |
| 31) Cyclohexane               | 7.98 | 56  | 343632  | 46.014  | ug/l   | 96     |
| 32) 1,1,1-Trichloroethane     | 7.91 | 97  | 358652  | 49.128  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 305859  | 47.911  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.30 | 43  | 130261  | 49.399  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 329437  | 48.824  | ug/l   | 98     |

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 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
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MMDadoda  
 1/30/2020 10:27:16 AM

Quant Time: Jan 29 22:26:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D012320S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 13:45:59 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 365028   | 48.908   | ug/l  | 98       |
| 40) Benzene                    | 8.36  | 78   | 872092   | 49.601   | ug/l  | 99       |
| 41) Methacrylonitrile          | 7.54  | 41   | 68924m   | 48.521   | ug/l  |          |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 259060   | 49.463   | ug/l  | 98       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 245452   | 49.003   | ug/l  | 100      |
| 44) Trichloroethene            | 9.12  | 130  | 241982   | 49.176   | ug/l  | 97       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 214629   | 50.355   | ug/l  | 99       |
| 46) Dibromomethane             | 9.48  | 93   | 114528   | 49.216   | ug/l  | 99       |
| 47) Bromodichloromethane       | 9.67  | 83   | 308238   | 50.905   | ug/l  | 99       |
| 48) Methyl methacrylate        | 9.46  | 41   | 117776   | 51.095   | ug/l  | 98       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 27733    | 1027.581 | ug/l  | 95       |
| 51) 4-Methyl-2-Pentanone       | 10.24 | 43   | 637122   | 254.211  | ug/l  | 100      |
| 52) Toluene                    | 10.41 | 92   | 560428   | 49.439   | ug/l  | 97       |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 295721   | 51.270   | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene    | 10.10 | 75   | 343728   | 50.899   | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 10.81 | 97   | 155483   | 49.603   | ug/l  | 98       |
| 56) Ethyl methacrylate         | 10.67 | 69   | 198780   | 53.031   | ug/l  | 100      |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 274401   | 51.040   | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.95  | 63   | 317729   | 255.145  | ug/l  | 99       |
| 59) 2-Hexanone                 | 10.99 | 43   | 423544   | 244.999  | ug/l  | 99       |
| 60) Dibromochloromethane       | 11.15 | 129  | 211076   | 50.382   | ug/l  | 99       |
| 61) 1,2-Dibromoethane          | 11.26 | 107  | 151645   | 50.243   | ug/l  | 98       |
| 64) Tetrachloroethene          | 10.88 | 164  | 203649   | 47.416   | ug/l  | 99       |
| 65) Chlorobenzene              | 11.68 | 112  | 591771   | 49.038   | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 224661   | 49.502   | ug/l  | 99       |
| 67) Ethyl Benzene              | 11.75 | 91   | 1085276  | 50.657   | ug/l  | 97       |
| 68) m/p-Xylenes                | 11.86 | 106  | 848694   | 102.888  | ug/l  | 99       |
| 69) o-Xylene                   | 12.19 | 106  | 380205   | 51.935   | ug/l  | 99       |
| 70) Styrene                    | 12.20 | 104  | 686071   | 52.608   | ug/l  | 100      |
| 71) Bromoform                  | 12.37 | 173  | 125316   | 49.673   | ug/l  | 99       |
| 73) Isopropylbenzene           | 12.48 | 105  | 1027673  | 51.176   | ug/l  | 99       |
| 74) N-amyl acetate             | 12.30 | 43   | 226252   | 50.351   | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 166738   | 49.403   | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 118351m  | 48.533   | ug/l  |          |
| 77) Bromobenzene               | 12.77 | 156  | 249292   | 50.738   | ug/l  | 100      |
| 78) n-propylbenzene            | 12.83 | 91   | 1206735  | 50.531   | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 658161   | 50.238   | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 838162   | 50.933   | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.54 | 75   | 55751    | 48.816   | ug/l  | 98       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 706344   | 50.840   | ug/l  | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 733528   | 52.526   | ug/l  | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.28 | 105  | 853687   | 51.209   | ug/l  | 100      |
| 85) sec-Butylbenzene           | 13.41 | 105  | 982847   | 49.705   | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 13.53 | 119  | 944849   | 51.064   | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 13.53 | 146  | 478267   | 50.733   | ug/l  | 98       |
| 88) 1,4-Dichlorobenzene        | 13.61 | 146  | 461026   | 49.273   | ug/l  | 99       |
| 89) n-Butylbenzene             | 13.86 | 91   | 842758   | 49.908   | ug/l  | 99       |
| 90) Hexachloroethane           | 14.12 | 117  | 176215   | 49.385   | ug/l  | 99       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 403116   | 50.368   | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.52 | 75   | 25455    | 47.129   | ug/l  | 94       |

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Operator : VA/SY  
Sample : VSTDCCC050  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
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MMDadoda  
1/30/2020 10:27:16 AM

Quant Time: Jan 29 22:26:35 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D012320S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jan 23 13:45:59 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 279624   | 50.502 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 166497   | 47.541 | ug/l  | 97       |
| 95) Naphthalene            | 15.41 | 128  | 468507   | 52.430 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180  | 243636   | 50.750 | ug/l  | 99       |

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

