

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041520\  
 Data File : VD065638.D  
 Acq On : 15 Apr 2020 16:28  
 Operator : VA/SY  
 Sample : VSTDICC150  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC150

Manual Integrations  
 APPROVED

MMDadoda  
 4/16/2020 3:13:41 PM

Quant Time: Apr 15 19:48:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D041520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 15 18:47:17 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 247950   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 340343   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 325247   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 166071   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |        |         |      |
|---------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.34   | 65  | 298536   | 127.93 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 255.86% |      |
| 35) Dibromofluoromethane  | 7.92   | 113 | 312415   | 133.72 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 267.44% |      |
| 50) Toluene-d8            | 10.34  | 98  | 1176537  | 138.34 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 276.68% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 399679   | 144.83 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 289.66% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 310208  | 140.287 | ug/l | 99     |
| 3) Chloromethane              | 2.21 | 50  | 334400  | 123.898 | ug/l | 100    |
| 4) Vinyl Chloride             | 2.35 | 62  | 345128  | 135.034 | ug/l | 100    |
| 5) Bromomethane               | 2.74 | 94  | 206594  | 118.315 | ug/l | 96     |
| 6) Chloroethane               | 2.91 | 64  | 205879  | 130.836 | ug/l | 99     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 481133  | 124.775 | ug/l | 98     |
| 8) Diethyl Ether              | 3.70 | 74  | 109377  | 138.069 | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101 | 236259  | 99.296  | ug/l | 99     |
| 10) Methyl Iodide             | 4.29 | 142 | 448930  | 192.147 | ug/l | 93     |
| 11) Tert butyl alcohol        | 5.24 | 59  | 86620   | 771.123 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 217479  | 99.426  | ug/l | 99     |
| 13) Acrolein                  | 3.92 | 56  | 78428   | 501.727 | ug/l | 100    |
| 14) Allyl chloride            | 4.71 | 41  | 526344  | 162.072 | ug/l | 90     |
| 15) Acrylonitrile             | 5.43 | 53  | 372933  | 820.725 | ug/l | 99     |
| 16) Acetone                   | 4.16 | 43  | 251931  | 622.779 | ug/l | 98     |
| 17) Carbon Disulfide          | 4.40 | 76  | 1037311 | 142.616 | ug/l | 100    |
| 18) Methyl Acetate            | 4.72 | 43  | 184451  | 156.821 | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 726778  | 168.715 | ug/l | 99     |
| 20) Methylene Chloride        | 4.96 | 84  | 343644  | 131.024 | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 360542  | 145.006 | ug/l | 95     |
| 22) Diisopropyl ether         | 6.37 | 45  | 1053109 | 155.651 | ug/l | 99     |
| 23) Vinyl Acetate             | 6.31 | 43  | 3028252 | 839.166 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.26 | 63  | 602793  | 135.493 | ug/l | 100    |
| 25) 2-Butanone                | 7.22 | 43  | 449199  | 761.174 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 518521  | 130.851 | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 392670  | 144.594 | ug/l | 98     |
| 28) Bromochloromethane        | 7.55 | 49  | 233784  | 129.324 | ug/l | 100    |
| 29) Tetrahydrofuran           | 7.57 | 42  | 304294  | 815.234 | ug/l | 99     |
| 30) Chloroform                | 7.71 | 83  | 606998  | 130.533 | ug/l | 97     |
| 31) Cyclohexane               | 7.98 | 56  | 572740  | 137.904 | ug/l | 95     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 543996  | 130.068 | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 487878  | 141.463 | ug/l | 99     |
| 37) Ethyl Acetate             | 7.30 | 43  | 210498  | 157.563 | ug/l | 98     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 504112  | 134.545 | ug/l | 97     |

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 Sample : VSTDICC150  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VSTDICC150

Manual Integrations  
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MMDadoda  
 4/16/2020 3:13:41 PM

Quant Time: Apr 15 19:48:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D041520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 15 18:47:17 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 621052   | 159.086  | ug/l   | 98       |
| 40) Benzene                    | 8.35  | 78   | 1404300  | 142.079  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.53  | 41   | 112614m  | 148.765  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 391654   | 140.116  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.46  | 43   | 395543   | 164.386  | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 393000   | 139.186  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 348367   | 143.640  | ug/l   | 99       |
| 46) Dibromomethane             | 9.48  | 93   | 185344   | 141.786  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.67  | 83   | 476891   | 139.799  | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.46  | 41   | 195303   | 170.207  | ug/l   | 95       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 44878    | 3156.671 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 1024072  | 819.445  | ug/l   | 99       |
| 52) Toluene                    | 10.41 | 92   | 912486   | 146.474  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 482955   | 157.809  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 574437   | 154.346  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.81 | 97   | 256383   | 138.850  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.67 | 69   | 339294   | 181.449  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 452205   | 147.901  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 795880   | 817.585  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.99 | 43   | 702845   | 842.389  | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.14 | 129  | 344646   | 141.389  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 253523   | 144.371  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.88 | 164  | 339379   | 134.301  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.67 | 112  | 964556   | 139.758  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 367651   | 139.997  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.75 | 91   | 1728708  | 152.044  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.86 | 106  | 1331385  | 297.862  | ug/l   | 99       |
| 69) o-Xylene                   | 12.18 | 106  | 613228   | 158.620  | ug/l   | 100      |
| 70) Styrene                    | 12.20 | 104  | 1080431  | 157.894  | ug/l   | 100      |
| 71) Bromoform                  | 12.37 | 173  | 212629   | 141.725  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.48 | 105  | 1646452  | 159.319  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.30 | 43   | 370282   | 174.658  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 275665   | 141.734  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 191016m  | 139.735  | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 415533   | 145.660  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.83 | 91   | 1926464  | 154.200  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 1076530  | 150.085  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 1359034  | 155.168  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.54 | 75   | 99824    | 171.158  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 1120510  | 144.625  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 1160685  | 160.068  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.28 | 105  | 1361073  | 156.783  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.41 | 105  | 1622656  | 155.908  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.53 | 119  | 1524156  | 158.812  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.53 | 146  | 764936   | 138.446  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 753255   | 136.426  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.86 | 91   | 1391652  | 160.019  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.12 | 117  | 296920   | 141.327  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 672729   | 142.662  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.52 | 75   | 43241    | 142.977  | ug/l   | 97       |

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Sample : VSTDICC150  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDICC150

Manual Integrations  
APPROVED

MMDadoda  
4/16/2020 3:13:41 PM

Quant Time: Apr 15 19:48:37 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D041520S.M  
Quant Title : SW846 8260  
QLast Update : Wed Apr 15 18:47:17 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|----------------------------|-------|------|----------|---------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 503673   | 161.606 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 320836   | 148.480 | ug/l  | 98       |
| 95) Naphthalene            | 15.41 | 128  | 850373   | 185.608 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180  | 442120   | 161.973 | ug/l  | 100      |

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

