

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD102919\  
 Data File : VD064088.D  
 Acq On : 29 Oct 2019 14:32  
 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  
 10/30/2019 10:58:27 AM

Quant Time: Oct 30 07:52:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D102919S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 30 07:33:28 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.   | QIon | Response | Conc    | Units   | Dev(Min) |
|-------------------------------|--------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene         | 7.98   | 168  | 279768   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.87   | 114  | 408480   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5          | 11.65  | 117  | 430999   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.58  | 152  | 218709   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4     | 8.34   | 65   | 325492   | 146.29  | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 292.58% |          |
| 35) Dibromofluoromethane      | 7.92   | 113  | 364948   | 145.22  | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 290.44% |          |
| 50) Toluene-d8                | 10.34  | 98   | 1571455  | 156.36  | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 312.72% |          |
| 62) 4-Bromofluorobenzene      | 12.64  | 95   | 529352   | 158.87  | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 317.74% |          |
| Target Compounds              |        |      |          |         |         |          |
|                               |        |      |          |         | Qvalue  |          |
| 2) Dichlorodifluoromethane    | 1.99   | 85   | 371840   | 130.161 | ug/l    | 100      |
| 3) Chloromethane              | 2.21   | 50   | 568675   | 119.308 | ug/l    | 100      |
| 4) Vinyl Chloride             | 2.35   | 62   | 630637   | 122.007 | ug/l    | 98       |
| 5) Bromomethane               | 2.74   | 94   | 434916   | 129.111 | ug/l    | 97       |
| 6) Chloroethane               | 2.91   | 64   | 397929   | 123.949 | ug/l    | 93       |
| 7) Trichlorofluoromethane     | 3.27   | 101  | 864070   | 121.434 | ug/l    | 98       |
| 8) Diethyl Ether              | 3.71   | 74   | 165183   | 133.554 | ug/l    | 96       |
| 9) 1,1,2-Trichlorotrifluoroet | 4.08   | 101  | 326698   | 127.405 | ug/l    | 100      |
| 10) Methyl Iodide             | 4.29   | 142  | 484056   | 152.365 | ug/l    | 100      |
| 11) Tert butyl alcohol        | 5.25   | 59   | 95115    | 507.128 | ug/l    | 100      |
| 12) 1,1-Dichloroethene        | 4.06   | 96   | 325177   | 133.991 | ug/l    | 89       |
| 13) Acrolein                  | 3.92   | 56   | 99963    | 704.605 | ug/l    | 96       |
| 14) Allyl chloride            | 4.71   | 41   | 414333   | 145.868 | ug/l    | 98       |
| 15) Acrylonitrile             | 5.43   | 53   | 341376   | 747.216 | ug/l    | 99       |
| 16) Acetone                   | 4.16   | 43   | 317352   | 749.619 | ug/l    | 92       |
| 17) Carbon Disulfide          | 4.40   | 76   | 1062345  | 142.447 | ug/l    | 98       |
| 18) Methyl Acetate            | 4.73   | 43   | 165477   | 146.946 | ug/l    | 99       |
| 19) Methyl tert-butyl Ether   | 5.49   | 73   | 710506   | 144.278 | ug/l #  | 90       |
| 20) Methylene Chloride        | 4.97   | 84   | 373444   | 123.457 | ug/l    | 93       |
| 21) trans-1,2-Dichloroethene  | 5.47   | 96   | 377722   | 138.650 | ug/l    | 97       |
| 22) Diisopropyl ether         | 6.37   | 45   | 948209   | 150.731 | ug/l    | 95       |
| 23) Vinyl Acetate             | 6.31   | 43   | 2707499  | 768.902 | ug/l    | 98       |
| 24) 1,1-Dichloroethane        | 6.27   | 63   | 568906   | 133.923 | ug/l    | 98       |
| 25) 2-Butanone                | 7.23   | 43   | 446845   | 763.488 | ug/l    | 100      |
| 26) 2,2-Dichloropropane       | 7.21   | 77   | 542465   | 134.545 | ug/l    | 96       |
| 27) cis-1,2-Dichloroethene    | 7.21   | 96   | 429350   | 140.846 | ug/l    | 99       |
| 28) Bromochloromethane        | 7.55   | 49   | 252374   | 162.872 | ug/l    | 97       |
| 29) Tetrahydrofuran           | 7.57   | 42   | 270228   | 791.129 | ug/l    | 98       |
| 30) Chloroform                | 7.71   | 83   | 664249   | 136.651 | ug/l    | 95       |
| 31) Cyclohexane               | 7.98   | 56   | 542517   | 131.088 | ug/l    | 98       |
| 32) 1,1,1-Trichloroethane     | 7.90   | 97   | 613748   | 135.639 | ug/l    | 98       |
| 36) 1,1-Dichloropropene       | 8.11   | 75   | 530707   | 138.653 | ug/l    | 99       |
| 37) Ethyl Acetate             | 7.30   | 43   | 178265   | 151.312 | ug/l #  | 95       |
| 38) Carbon Tetrachloride      | 8.10   | 117  | 575797   | 137.878 | ug/l    | 94       |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 692129   | 147.306  | ug/l   | 95       |
| 40) Benzene                    | 8.36  | 78   | 1523377  | 145.950  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.54  | 41   | 117361m  | 146.792  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 390331   | 141.572  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 363889   | 152.834  | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 451438   | 142.699  | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 351281   | 145.221  | ug/l   | 99       |
| 46) Dibromomethane             | 9.48  | 93   | 210685   | 144.618  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.67  | 83   | 539569   | 146.811  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.46  | 41   | 172249   | 156.442  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 52968    | 3176.300 | ug/l # | 90       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 1055968  | 814.673  | ug/l   | 98       |
| 52) Toluene                    | 10.41 | 92   | 1127418  | 154.130  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 540038   | 157.411  | ug/l   | 92       |
| 54) cis-1,3-Dichloropropene    | 10.10 | 75   | 621574   | 153.996  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 10.81 | 97   | 303406   | 146.892  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.67 | 69   | 394300   | 175.807  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 512804   | 150.119  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 705563   | 779.708  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.99 | 43   | 773877   | 837.750  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.14 | 129  | 422334   | 150.647  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 316706   | 153.307  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.88 | 164  | 423861   | 136.892  | ug/l   | 96       |
| 65) Chlorobenzene              | 11.67 | 112  | 1268767  | 142.471  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 473766   | 142.176  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.75 | 91   | 2387907  | 150.754  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.86 | 106  | 1877195  | 294.640  | ug/l   | 99       |
| 69) o-Xylene                   | 12.18 | 106  | 864878   | 148.745  | ug/l   | 99       |
| 70) Styrene                    | 12.20 | 104  | 1490201  | 148.601  | ug/l   | 98       |
| 71) Bromoform                  | 12.37 | 173  | 253919   | 142.680  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.48 | 105  | 2335379  | 153.663  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.29 | 43   | 412800   | 163.494  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 362617   | 151.371  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 208685m  | 76.904   | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 538549   | 146.764  | ug/l   | 95       |
| 78) n-propylbenzene            | 12.83 | 91   | 2755033  | 154.686  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 1459740  | 152.896  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 1931317  | 151.838  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 121503   | 168.849  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 1517005  | 148.704  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 1727723  | 151.230  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 1977139  | 154.734  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 2388260  | 152.226  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 2282836  | 154.863  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 1084212  | 147.440  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 1041112  | 143.621  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.85 | 91   | 2051822  | 150.908  | ug/l   | 97       |
| 90) Hexachloroethane           | 14.12 | 117  | 420175   | 152.245  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 886756   | 140.120  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 50733    | 145.010  | ug/l   | 99       |

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QLast Update : Wed Oct 30 07:33:28 2019  
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| Internal Standards         | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|----------------------------|-------|------|----------|---------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 670225   | 147.332 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 381672   | 143.555 | ug/l  | 99       |
| 95) Naphthalene            | 15.41 | 128  | 1191977  | 160.665 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 575294   | 146.002 | ug/l  | 97       |

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

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