Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_F\Data\VF111418\
Data File : VF060723.D
Acq On : 14 Nov 2018 14:09
Operator : VA/AP
Sample : VF1114SBSD01
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF1114SBSD01

Manual Integrations APPROVED
MMDadoda
11/15/2018 1:30:41 PM

Quant Time: Nov 15 06:59:45 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 14 03:11:14 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Pentafluorobenzene | 4.85 | 168 | 228034 | 50.00 | ug/l | -0.04 |
| 34) 1,4-Difluorobenzene | 5.58 | 114 | 374770 | 50.00 | ug/l | -0.04 |
| 63) Chlorobenzene-d5 | 9.76 | 117 | 363819 | 50.00 | ug/l | -0.03 |
| 72) 1,4-Dichlorobenzene-d4 | 12.54 | 152 | 198153 | 50.00 | ug/l | -0.02 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.82 | 65 | 120209 | 46.22 | ug/l | -0.04 |
| Spiked Amount 50.000 | | | Recovery = 92.44% | | | |
| 35) Dibromofluoromethane | 4.09 | 113 | 133294 | 47.32 | ug/l | -0.04 |
| Spiked Amount 50.000 | | | Recovery = 94.64% | | | |
| 50) Toluene-d8 | 7.53 | 98 | 371087 | 51.44 | ug/l | -0.04 |
| Spiked Amount 50.000 | | | Recovery = 102.88% | | | |
| 62) 4-Bromofluorobenzene | 11.40 | 95 | 181945 | 54.98 | ug/l | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 109.96% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 0.96 | 85 | 86567 | 21.212 | ug/l | 97 |
| 3) Chloromethane | 1.09 | 50 | 51116 | 20.196 | ug/l # | 88 |
| 4) Vinyl Chloride | 1.14 | 62 | 49246 | 21.751 | ug/l | 94 |
| 5) Bromomethane | 1.32 | 94 | 31695 | 22.038 | ug/l | 97 |
| 6) Chloroethane | 1.36 | 64 | 16428 | 18.545 | ug/l | 95 |
| 7) Trichlorofluoromethane | 1.48 | 101 | 99198m | 19.813 | ug/l | |
| 8) Diethyl Ether | 1.62 | 74 | 12738 | 19.857 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluoroet | 1.80 | 101 | 52996 | 22.462 | ug/l | 91 |
| 10) Methyl Iodide | 1.88 | 142 | 75559 | 19.960 | ug/l | 98 |
| 11) Tert butyl alcohol | 2.56 | 59 | 13062 | 110.346 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 1.77 | 96 | 38768 | 20.839 | ug/l | 99 |
| 13) Acrolein | 1.99 | 56 | 10881 | 100.532 | ug/l | 98 |
| 14) Allyl chloride | 2.09 | 41 | 66826 | 20.504 | ug/l | 98 |
| 15) Acrylonitrile | 2.93 | 53 | 28179 | 111.716 | ug/l | 92 |
| 16) Acetone | 2.23 | 43 | 65058 | 117.022 | ug/l # | 93 |
| 17) Carbon Disulfide | 1.82 | 76 | 116125 | 20.653 | ug/l # | 89 |
| 18) Methyl Acetate | 2.33 | 43 | 17907 | 19.616 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 2.42 | 73 | 88724 | 19.880 | ug/l | 98 |
| 20) Methylene Chloride | 2.18 | 84 | 46632m | 23.735 | ug/l | |
| 21) trans-1,2-Dichloroethene | 2.30 | 96 | 40313 | 20.740 | ug/l | 91 |
| 22) Diisopropyl ether | 2.79 | 45 | 131299 | 20.867 | ug/l # | 96 |
| 23) Vinyl Acetate | 3.17 | 43 | 323467 | 109.168 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 2.86 | 63 | 81692 | 21.445 | ug/l | 100 |
| 25) 2-Butanone | 4.31 | 43 | 97704 | 106.846 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 3.58 | 77 | 61626 | 20.557 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 3.46 | 96 | 67225 | 20.331 | ug/l | 96 |
| 28) Bromochloromethane | 3.70 | 49 | 41486 | 20.955 | ug/l | 92 |
| 29) Tetrahydrofuran | 4.05 | 42 | 42681 | 113.155 | ug/l | 97 |
| 30) Chloroform | 3.84 | 83 | 124198 | 20.320 | ug/l | 99 |
| 31) Cyclohexane | 3.69 | 56 | 93932 | 20.316 | ug/l | 93 |
| 32) 1,1,1-Trichloroethane | 4.08 | 97 | 99632 | 20.700 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 4.26 | 75 | 88854 | 20.443 | ug/l | 99 |
| 37) Ethyl Acetate | 4.09 | 43 | 33736 | 20.877 | ug/l | 92 |
| 38) Carbon Tetrachloride | 3.97 | 117 | 91732m | 21.751 | ug/l | |

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| Internal Standards | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 39) Methylcyclohexane | 5.43 | 83 | 107090 | 21.237 ug/l | | 95 |
| 40) Benzene | 4.61 | 78 | 207043 | 21.369 ug/l | | 98 |
| 41) Methacrylonitrile | 4.72 | 41 | 20594 | 21.430 ug/l | | 94 |
| 42) 1,2-Dichloroethane | 4.92 | 62 | 66464 | 19.851 ug/l | | 98 |
| 43) Isopropyl Acetate | 6.94 | 43 | 46395 | 21.655 ug/l | # | 98 |
| 44) Trichloroethene | 5.48 | 130 | 63934 | 20.915 ug/l | | 84 |
| 45) 1,2-Dichloropropane | 6.22 | 63 | 52198 | 20.704 ug/l | | 99 |
| 46) Dibromomethane | 6.07 | 93 | 36283 | 21.801 ug/l | | 87 |
| 47) Bromodichloromethane | 6.37 | 83 | 86789 | 20.421 ug/l | | 98 |
| 48) Methyl methacrylate | 6.70 | 41 | 30684 | 21.640 ug/l | | 99 |
| 49) 1,4-Dioxane | 6.68 | 88 | 6292 | 474.469 ug/l | | 89 |
| 51) 4-Methyl-2-Pentanone | 8.24 | 43 | 163102 | 105.257 ug/l | | 99 |
| 52) Toluene | 7.61 | 92 | 132996 | 20.484 ug/l | | 94 |
| 53) t-1,3-Dichloropropene | 8.26 | 75 | 70027 | 20.572 ug/l | | 96 |
| 54) cis-1,3-Dichloropropene | 7.29 | 75 | 84205 | 19.044 ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 8.47 | 97 | 38808 | 20.920 ug/l | | 98 |
| 56) Ethyl methacrylate | 8.61 | 69 | 47363 | 22.481 ug/l | | 95 |
| 57) 1,3-Dichloropropane | 8.83 | 76 | 68358 | 21.262 ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 7.61 | 63 | 20653 | 107.313 ug/l | | 100 |
| 59) 2-Hexanone | 9.48 | 43 | 129403 | 118.829 ug/l | | 97 |
| 60) Dibromochloromethane | 8.70 | 129 | 54928 | 20.776 ug/l | | 87 |
| 61) 1,2-Dibromoethane | 8.97 | 107 | 41451 | 21.246 ug/l | | 98 |
| 64) Tetrachloroethene | 8.13 | 164 | 54193 | 18.810 ug/l | | 94 |
| 65) Chlorobenzene | 9.78 | 112 | 147309 | 20.065 ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 9.91 | 131 | 66070 | 20.633 ug/l | | 96 |
| 67) Ethyl Benzene | 9.88 | 91 | 285878 | 20.658 ug/l | | 99 |
| 68) m/p-Xylenes | 10.12 | 106 | 202149 | 40.875 ug/l | | 90 |
| 69) o-Xylene | 10.70 | 106 | 113126 | 20.346 ug/l | | 97 |
| 70) Styrene | 10.78 | 104 | 148895 | 19.732 ug/l | | 98 |
| 71) Bromoform | 10.76 | 173 | 27382 | 19.016 ug/l | # | 93 |
| 73) Isopropylbenzene | 11.11 | 105 | 364024 | 22.823 ug/l | | 96 |
| 74) N-amyl acetate | 11.36 | 43 | 86794 | 23.904 ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 11.69 | 83 | 54743 | 20.760 ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 11.78 | 75 | 37504 | 19.150 ug/l | | 97 |
| 77) Bromobenzene | 11.49 | 156 | 68476 | 20.625 ug/l | | 94 |
| 78) n-propylbenzene | 11.59 | 91 | 388314 | 20.875 ug/l | | 99 |
| 79) 2-Chlorotoluene | 11.70 | 91 | 223406 | 20.663 ug/l | | 95 |
| 80) 1,3,5-Trimethylbenzene | 11.81 | 105 | 286173 | 22.599 ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-buten | 11.86 | 75 | 19029m | 19.777 ug/l | | |
| 82) 4-Chlorotoluene | 11.88 | 91 | 235103 | 21.226 ug/l | | 95 |
| 83) tert-Butylbenzene | 12.12 | 119 | 275411 | 20.484 ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 12.19 | 105 | 270378 | 20.646 ug/l | | 94 |
| 85) sec-Butylbenzene | 12.30 | 105 | 389630 | 21.363 ug/l | | 98 |
| 86) p-Isopropyltoluene | 12.44 | 119 | 319407 | 20.969 ug/l | | 94 |
| 87) 1,3-Dichlorobenzene | 12.46 | 146 | 137350 | 20.788 ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 12.55 | 146 | 129686 | 20.423 ug/l | | 97 |
| 89) n-Butylbenzene | 12.83 | 91 | 345637 | 22.234 ug/l | | 94 |
| 90) Hexachloroethane | 12.91 | 117 | 77316 | 20.752 ug/l | | 96 |
| 91) 1,2-Dichlorobenzene | 12.93 | 146 | 134031 | 21.545 ug/l | | 95 |
| 92) 1,2-Dibromo-3-Chloropropan | 13.63 | 75 | 9296 | 18.756 ug/l | | 96 |

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| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 93) 1,2,4-Trichlorobenzene | 14.19 | 180 | 93152 | 20.833 ug/l | 97 |
| 94) Hexachlorobutadiene | 14.18 | 225 | 59800 | 20.466 ug/l | 96 |
| 95) Naphthalene | 14.45 | 128 | 165922 | 20.337 ug/l | 98 |
| 96) 1,2,3-Trichlorobenzene | 14.59 | 180 | 85345 | 20.656 ug/l | 95 |

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

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