Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN072518\
Data File : VN050051.D
Acq On : 25 Jul 2018 18:55
Operator : MD\SY
Sample : VN0725WBS02
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** VN0725WBS02

**Manual Integrations APPROVED**
MMDadoda
7/26/2018 3:54:47 PM

Quant Time: Jul 26 07:08:43 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 24 06:27:04 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Pentafluorobenzene | 7.67 | 168 | 596353 | 50.00 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.59 | 114 | 893928 | 50.00 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.41 | 117 | 812620 | 50.00 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152 | 406580 | 50.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.03 | 65 | 409340 | 49.20 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 98.40% | | | |
| 35) Dibromofluoromethane | 7.59 | 113 | 358641 | 49.14 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 98.28% | | | |
| 50) Toluene-d8 | 10.09 | 98 | 1314706 | 49.00 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 98.00% | | | |
| 62) 4-Bromofluorobenzene | 12.40 | 95 | 422744 | 47.85 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 95.70% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.85 | 85 | 166689 | 19.45 | ug/l | 100 |
| 3) Chloromethane | 2.06 | 50 | 178764 | 19.19 | ug/l | 98 |
| 4) Vinyl Chloride | 2.18 | 62 | 189658 | 19.34 | ug/l | 98 |
| 5) Bromomethane | 2.56 | 94 | 118827 | 21.24 | ug/l | 97 |
| 6) Chloroethane | 2.70 | 64 | 108775 | 18.47 | ug/l | 97 |
| 7) Trichlorofluoromethane | 3.01 | 101 | 241545 | 19.01 | ug/l | 99 |
| 8) Diethyl Ether | 3.41 | 74 | 82038 | 19.37 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluoroet | 3.75 | 101 | 138986 | 18.19 | ug/l | 99 |
| 10) Methyl Iodide | 3.95 | 142 | 172685 | 17.61 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.80 | 59 | 59417 | 97.05 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 3.73 | 96 | 129735 | 18.88 | ug/l | 98 |
| 13) Acrolein | 3.61 | 56 | 34023 | 69.17 | ug/l | 98 |
| 14) Allyl chloride | 4.32 | 41 | 199924 | 18.76 | ug/l | 99 |
| 15) Acrylonitrile | 5.00 | 53 | 256479 | 96.02 | ug/l | 100 |
| 16) Acetone | 3.82 | 43 | 194348 | 96.50 | ug/l | 99 |
| 17) Carbon Disulfide | 4.05 | 76 | 384364 | 18.25 | ug/l | 100 |
| 18) Methyl Acetate | 4.33 | 43 | 160635 | 20.10 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.05 | 73 | 362979 | 19.82 | ug/l | 99 |
| 20) Methylene Chloride | 4.55 | 84 | 151760 | 19.81 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 5.04 | 96 | 140341 | 19.27 | ug/l | 100 |
| 22) Diisopropyl ether | 5.96 | 45 | 429387 | 20.32 | ug/l | 95 |
| 23) Vinyl Acetate | 5.90 | 43 | 1436400 | 96.18 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.85 | 63 | 265789 | 19.23 | ug/l | 99 |
| 25) 2-Butanone | 6.84 | 43 | 301124 | 94.88 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 6.83 | 77 | 192123 | 18.28 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.83 | 96 | 153799 | 19.62 | ug/l | 99 |
| 28) Bromochloromethane | 7.20 | 49 | 122600 | 19.45 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.22 | 42 | 199437 | 97.25 | ug/l | 100 |
| 30) Chloroform | 7.38 | 83 | 272696 | 19.34 | ug/l | 98 |
| 31) Cyclohexane | 7.66 | 56 | 211886 | 18.45 | ug/l | 93 |
| 32) 1,1,1-Trichloroethane | 7.57 | 97 | 232347 | 19.26 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.80 | 75 | 196085 | 19.47 | ug/l | 99 |
| 37) Ethyl Acetate | 6.94 | 43 | 134653 | 19.18 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.78 | 117 | 202769 | 18.97 | ug/l | 100 |

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| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 39) Methylcyclohexane | 9.08 | 83 | 185902 | 17.94 | ug/l | | 99 |
| 40) Benzene | 8.04 | 78 | 596379 | 19.46 | ug/l | | 99 |
| 41) Methacrylonitrile | 7.18 | 41 | 69113 | 20.61 | ug/l | | 86 |
| 42) 1,2-Dichloroethane | 8.13 | 62 | 198387 | 19.40 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.17 | 43 | 250114 | 18.18 | ug/l | | 97 |
| 44) Trichloroethene | 8.84 | 130 | 154324 | 18.74 | ug/l | | 97 |
| 45) 1,2-Dichloropropane | 9.12 | 63 | 157726 | 19.43 | ug/l | | 100 |
| 46) Dibromomethane | 9.21 | 93 | 97909 | 19.43 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.41 | 83 | 202743 | 19.06 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.20 | 41 | 116499 | 19.26 | ug/l | | 100 |
| 49) 1,4-Dioxane | 9.20 | 88 | 32423 | 393.97 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 9.99 | 43 | 681711 | 98.76 | ug/l | | 99 |
| 52) Toluene | 10.16 | 92 | 369017 | 20.40 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.38 | 75 | 192482 | 19.17 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.84 | 75 | 223036 | 19.44 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.56 | 97 | 142071 | 19.80 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.43 | 69 | 164865 | 18.30 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 10.71 | 76 | 231758 | 19.83 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.70 | 63 | 391664 | 91.83 | ug/l | | 100 |
| 59) 2-Hexanone | 10.76 | 43 | 443127 | 90.73 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.90 | 129 | 156912 | 19.75 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.01 | 107 | 137622 | 19.33 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.63 | 164 | 150582 | 19.27 | ug/l | | 97 |
| 65) Chlorobenzene | 11.44 | 112 | 390774 | 19.04 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.51 | 131 | 149060 | 18.90 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.52 | 91 | 641958 | 19.47 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.62 | 106 | 502171 | 40.26 | ug/l | | 100 |
| 69) o-Xylene | 11.95 | 106 | 238597 | 20.07 | ug/l | | 97 |
| 70) Styrene | 11.97 | 104 | 375594 | 18.36 | ug/l | | 100 |
| 71) Bromoform | 12.13 | 173 | 109087 | 19.01 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.25 | 105 | 630444 | 19.99 | ug/l | | 100 |
| 74) N-amyl acetate | 12.07 | 43 | 175908 | 18.25 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.51 | 83 | 178688 | 20.16 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.56 | 75 | 157370m | 20.83 | ug/l | | |
| 77) Bromobenzene | 12.53 | 156 | 166950 | 19.10 | ug/l | | 99 |
| 78) n-propylbenzene | 12.59 | 91 | 711830 | 20.20 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.68 | 91 | 437978 | 20.05 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.74 | 105 | 520910 | 21.00 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75 | 43674 | 18.33 | ug/l | | 94 |
| 82) 4-Chlorotoluene | 12.78 | 91 | 438006 | 20.25 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.00 | 119 | 439063 | 20.28 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.04 | 105 | 535006 | 21.40 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.17 | 105 | 590312 | 20.41 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.29 | 119 | 497363 | 20.41 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.29 | 146 | 286650 | 19.35 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.37 | 146 | 277801 | 19.24 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.62 | 91 | 376720 | 18.80 | ug/l | | 99 |
| 90) Hexachloroethane | 13.88 | 117 | 99903 | 18.46 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.66 | 146 | 287960 | 19.44 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75 | 27420 | 19.01 | ug/l | | 99 |

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|---|---|---|---|---|---|---|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180 | 116837 | 17.04 | ug/l | 97 |
| 94) Hexachlorobutadiene | 15.01 | 225 | 86574 | 19.10 | ug/l | 97 |
| 95) Naphthalene | 15.14 | 128 | 242225 | 16.31 | ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.32 | 180 | 124766 | 17.80 | ug/l | 97 |

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

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