Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121718\
Data File : VX006584.D
Acq On : 17 Dec 2018 20:19
Operator : JC/MD
Sample : J6405-07MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** RE105D1-20181210MSD

**Manual Integrations APPROVED**
MMDadoda
12/18/2018 9:45:01 AM

Quant Time: Dec 18 02:16:13 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 30 03:55:33 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Pentafluorobenzene | 5.67 | 168 | 561814 | 50.00 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.86 | 114 | 881207 | 50.00 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.12 | 117 | 814685 | 50.00 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152 | 416278 | 50.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 6.07 | 65 | 286368 | 49.93 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 99.86% | | | |
| 35) Dibromofluoromethane | 5.50 | 113 | 269181 | 47.18 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 94.36% | | | |
| 50) Toluene-d8 | 8.71 | 98 | 956980 | 46.11 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 92.22% | | | |
| 62) 4-Bromofluorobenzene | 11.13 | 95 | 364955 | 46.67 | ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 93.34% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.20 | 85 | 253853 | 46.147 | ug/l | 100 |
| 3) Chloromethane | 1.33 | 50 | 268471 | 47.492 | ug/l | 96 |
| 4) Vinyl Chloride | 1.41 | 62 | 291756 | 47.954 | ug/l | 99 |
| 5) Bromomethane | 1.64 | 94 | 287117 | 68.095 | ug/l | 100 |
| 6) Chloroethane | 1.71 | 64 | 189253 | 50.733 | ug/l | 100 |
| 7) Trichlorofluoromethane | 1.93 | 101 | 459159 | 49.165 | ug/l | 97 |
| 8) Diethyl Ether | 2.19 | 74 | 178478 | 50.496 | ug/l | 93 |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 287277 | 54.097 | ug/l | 99 |
| 10) Methyl Iodide | 2.51 | 142 | 415183 | 51.878 | ug/l | 98 |
| 11) Tert butyl alcohol | 3.08 | 59 | 383567 | 244.551 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 2.37 | 96 | 257160 | 50.586 | ug/l | 92 |
| 13) Acrolein | 2.30 | 56 | 243780 | 284.371 | ug/l | 99 |
| 14) Allyl chloride | 2.73 | 41 | 430072 | 42.826 | ug/l | 97 |
| 15) Acrylonitrile | 3.15 | 53 | 815960 | 249.302 | ug/l | 100 |
| 16) Acetone | 2.45 | 43 | 678369 | 252.041 | ug/l | 99 |
| 17) Carbon Disulfide | 2.57 | 76 | 653832 | 41.739 | ug/l | 100 |
| 18) Methyl Acetate | 2.78 | 43 | 436117 | 48.452 | ug/l | 96 |
| 19) Methyl tert-butyl Ether | 3.20 | 73 | 894885 | 49.345 | ug/l | 99 |
| 20) Methylene Chloride | 2.85 | 84 | 288346 | 50.338 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 3.17 | 96 | 273426 | 50.471 | ug/l | 91 |
| 22) Diisopropyl ether | 3.87 | 45 | 818748 | 52.198 | ug/l | 99 |
| 23) Vinyl Acetate | 3.82 | 43 | 3037519 | 227.046 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.70 | 63 | 465569 | 51.929 | ug/l | 99 |
| 25) 2-Butanone | 4.70 | 43 | 1023209 | 266.434 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 4.59 | 77 | 306878 | 37.089 | ug/l | 97 |
| 27) cis-1,2-Dichloroethene | 4.60 | 96 | 326964 | 54.107 | ug/l | 97 |
| 28) Bromochloromethane | 5.02 | 49 | 192924 | 49.265 | ug/l | 99 |
| 29) Tetrahydrofuran | 5.15 | 42 | 697335 | 261.266 | ug/l | 98 |
| 30) Chloroform | 5.21 | 83 | 506960 | 53.808 | ug/l | 95 |
| 31) Cyclohexane | 5.57 | 56 | 411671 | 49.686 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 5.49 | 97 | 434159 | 48.432 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.80 | 75 | 366577 | 49.400 | ug/l | 99 |
| 37) Ethyl Acetate | 4.85 | 43 | 363354 | 43.724 | ug/l | 98 |
| 38) Carbon Tetrachloride | 5.78 | 117 | 359414 | 41.171 | ug/l | 100 |

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Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
RE105D1-20181210MSD

**Manual Integrations APPROVED**
MMDadoda
12/18/2018 9:45:01 AM

Quant Time: Dec 18 02:16:13 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 30 03:55:33 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 39) Methylcyclohexane | 7.46 | 83 | 451298 | 46.852 ug/l | 99 |
| 40) Benzene | 6.14 | 78 | 1127113 | 50.713 ug/l | 99 |
| 41) Methacrylonitrile | 5.06 | 41 | 221028 | 48.336 ug/l | 98 |
| 42) 1,2-Dichloroethane | 6.20 | 62 | 378537 | 52.040 ug/l | 99 |
| 43) Isopropyl Acetate | 6.46 | 43 | 603115 | 43.529 ug/l | 99 |
| 44) Trichloroethene | 7.21 | 130 | 1151739 | 171.057 ug/l | 96 |
| 45) 1,2-Dichloropropane | 7.52 | 63 | 279397 | 49.462 ug/l | 100 |
| 46) Dibromomethane | 7.66 | 93 | 201279 | 49.338 ug/l | 95 |
| 47) Bromodichloromethane | 7.90 | 83 | 350209 | 44.329 ug/l | 98 |
| 48) Methyl methacrylate | 7.77 | 41 | 315634 | 46.826 ug/l | 97 |
| 49) 1,4-Dioxane | 7.75 | 88 | 175716 | 1057.701 ug/l | 97 |
| 51) 4-Methyl-2-Pentanone | 8.65 | 43 | 2011500 | 249.384 ug/l | 99 |
| 52) Toluene | 8.79 | 92 | 745130 | 50.959 ug/l | 100 |
| 53) t-1,3-Dichloropropene | 9.04 | 75 | 379648 | 41.090 ug/l | 99 |
| 54) cis-1,3-Dichloropropene | 8.43 | 75 | 414797 | 43.235 ug/l | 98 |
| 55) 1,1,2-Trichloroethane | 9.21 | 97 | 311812 | 52.491 ug/l | 99 |
| 56) Ethyl methacrylate | 9.18 | 69 | 438006 | 47.165 ug/l | 98 |
| 57) 1,3-Dichloropropane | 9.37 | 76 | 488081 | 51.960 ug/l | 100 |
| 59) 2-Hexanone | 9.49 | 43 | 1524036 | 247.314 ug/l | 100 |
| 60) Dibromochloromethane | 9.59 | 129 | 302977 | 41.362 ug/l | 100 |
| 61) 1,2-Dibromoethane | 9.67 | 107 | 333935 | 50.275 ug/l | 99 |
| 64) Tetrachloroethene | 9.34 | 164 | 309853 | 50.503 ug/l | 97 |
| 65) Chlorobenzene | 10.14 | 112 | 871274 | 50.380 ug/l | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 10.22 | 131 | 292626 | 43.550 ug/l | 99 |
| 67) Ethyl Benzene | 10.25 | 91 | 1433391 | 49.834 ug/l | 100 |
| 68) m/p-Xylenes | 10.36 | 106 | 1139654 | 98.913 ug/l | 99 |
| 69) o-Xylene | 10.70 | 106 | 562618 | 49.436 ug/l | 99 |
| 70) Styrene | 10.71 | 104 | 903648 | 49.093 ug/l | 99 |
| 71) Bromoform | 10.86 | 173 | 219519 | 34.609 ug/l | 99 |
| 73) Isopropylbenzene | 11.02 | 105 | 1480705 | 51.507 ug/l | 100 |
| 74) N-amyl acetate | 10.90 | 43 | 493764 | 39.886 ug/l | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 11.27 | 83 | 455263 | 49.501 ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 11.30 | 75 | 416897m | 51.886 ug/l | |
| 77) Bromobenzene | 11.26 | 156 | 401287 | 50.299 ug/l | 99 |
| 78) n-propylbenzene | 11.36 | 91 | 1633319 | 51.112 ug/l | 99 |
| 79) 2-Chlorotoluene | 11.42 | 91 | 968083 | 50.970 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.51 | 105 | 1218992 | 50.964 ug/l | 99 |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75 | 109254 | 31.910 ug/l # | 81 |
| 82) 4-Chlorotoluene | 11.51 | 91 | 1117722 | 50.615 ug/l | 99 |
| 83) tert-Butylbenzene | 11.77 | 119 | 1260880 | 49.407 ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 11.80 | 105 | 1263157 | 51.143 ug/l | 99 |
| 85) sec-Butylbenzene | 11.94 | 105 | 1492991 | 51.424 ug/l | 100 |
| 86) p-Isopropyltoluene | 12.06 | 119 | 1326833 | 50.752 ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 12.02 | 146 | 715358 | 50.393 ug/l | 98 |
| 88) 1,4-Dichlorobenzene | 12.10 | 146 | 700426 | 48.613 ug/l | 98 |
| 89) n-Butylbenzene | 12.39 | 91 | 1103446 | 49.467 ug/l | 99 |
| 90) Hexachloroethane | 12.60 | 117 | 186808 | 35.060 ug/l | 97 |
| 91) 1,2-Dichlorobenzene | 12.39 | 146 | 698497 | 49.578 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75 | 94273 | 39.987 ug/l | 95 |
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180 | 485421 | 47.226 ug/l | 99 |

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MSVOA_X
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Quant Time: Dec 18 02:16:13 2018
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Quant Title : SW846 8260
QLast Update : Fri Nov 30 03:55:33 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 94) Hexachlorobutadiene | 13.78 | 225 | 212915 | 46.840 | ug/l | 99 |
| 95) Naphthalene | 13.83 | 128 | 1602763 | 50.129 | ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180 | 498667 | 48.982 | ug/l | 98 |

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

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Quant Title : SW846 8260
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**Instrument :**
MSVOA_X
**ClientSampleId :**
RE105D1-20181210MSD

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MMDadoda
12/18/2018 9:45:01 AM