Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW080718\
Data File : VW004499.D
Acq On : 07 Aug 2018 16:27
Operator : SY/AP
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VSTD02582

Quant Time: Aug 08 05:39:35 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM080218S.M
Quant Title : VOC Analysis
QLast Update : Wed Aug 08 05:39:03 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Difluorobenzene | 8.85 | 114 | 979987 | 25.00 | ug/L | 0.00 |
| 28) Chlorobenzene-d5 | 11.63 | 117 | 948435 | 25.00 | ug/L | 0.00 |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152 | 495669 | 25.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) Vinyl Chloride-d3 | 2.36 | 65 | 236466 | 19.40 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 30 - 150 | | Recovery = 77.60% | | | |
| 7) Chloroethane-d5 | 2.89 | 69 | 211684 | 20.64 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 30 - 150 | | Recovery = 82.56% | | | |
| 10) 1,1-Dichloroethene-d2 | 4.01 | 63 | 542491 | 21.92 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 45 - 110 | | Recovery = 87.68% | | | |
| 20) 2-Butanone-d5 | 7.09 | 46 | 242492 | 45.12 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 20 - 135 | | Recovery = 90.24% | | | |
| 24) Chloroform-d | 7.65 | 84 | 617078 | 23.26 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 40 - 150 | | Recovery = 93.04% | | | |
| 26) 1,2-Dichloroethane-d4 | 8.31 | 65 | 334590 | 22.62 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 70 - 130 | | Recovery = 90.48% | | | |
| 29) Benzene-d6 | 8.27 | 84 | 1145823 | 22.71 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 20 - 135 | | Recovery = 90.84% | | | |
| 33) 1,2-Dichloropropane-d6 | 9.28 | 67 | 377703 | 22.91 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 70 - 120 | | Recovery = 91.64% | | | |
| 37) Toluene-d8 | 10.33 | 98 | 1013091 | 22.78 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 30 - 130 | | Recovery = 91.12% | | | |
| 38) trans-1,3-Dichloropropene- | 10.58 | 79 | 152795 | 22.53 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 30 - 135 | | Recovery = 90.12% | | | |
| 39) 2-Hexanone-d5 | 10.93 | 63 | 195322 | 48.66 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 20 - 135 | | Recovery = 97.32% | | | |
| 48) 1,1,2,2-Tetrachloroethane- | 12.70 | 84 | 421180 | 23.55 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 45 - 120 | | Recovery = 94.20% | | | |
| 61) 1,2-Dichlorobenzene-d4 | 13.86 | 152 | 423324 | 22.74 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 75 - 120 | | Recovery = 90.96% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.01 | 85 | 251742 | 24.71 | ug/L | 98 |
| 3) Chloromethane | 2.21 | 50 | 273898 | 20.35 | ug/L | 99 |
| 5) Vinyl chloride | 2.37 | 62 | 434212 | 24.72 | ug/L | 97 |
| 6) Bromomethane | 2.78 | 94 | 237117 | 23.35 | ug/L | 99 |
| 8) Chloroethane | 2.93 | 64 | 259727 | 24.65 | ug/L | 99 |
| 9) Trichlorofluoromethane | 3.25 | 101 | 186724 | 23.31 | ug/L | 100 |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 363635 | 26.14 | ug/L | 96 |
| 12) 1,1-Dichloroethene | 4.03 | 96 | 345046 | 25.39 | ug/L | 95 |
| 13) Acetone | 4.15 | 43 | 241254 | 51.81 | ug/L | 98 |
| 14) Carbon disulfide | 4.37 | 76 | 1018144 | 24.43 | ug/L | 100 |
| 15) Methyl Acetate | 4.68 | 43 | 214036 | 22.55 | ug/L | 99 |
| 16) Methylene chloride | 4.92 | 84 | 422533 | 21.71 | ug/L | 97 |
| 17) Methyl tert-butyl Ether | 5.43 | 73 | 461527 | 25.09 | ug/L | 99 |
| 18) trans-1,2-Dichloroethene | 5.42 | 96 | 354637 | 25.52 | ug/L | 96 |
| 19) 1,1-Dichloroethane | 6.21 | 63 | 680332 | 25.80 | ug/L | 99 |
| 21) 2-Butanone | 7.18 | 43 | 309113 | 48.50 | ug/L | 99 |
| 22) cis-1,2-Dichloroethene | 7.17 | 96 | 395675 | 26.09 | ug/L | 100 |

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**Instrument :** MSVOA_W
**ClientSampleId :** VSTD02582

Quant Time: Aug 08 05:39:35 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM080218S.M
Quant Title : VOC Analysis
QLast Update : Wed Aug 08 05:39:03 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 23) Bromochloromethane | 7.51 | 128 | 181464 | 25.00 | ug/L | 99 |
| 25) Chloroform | 7.68 | 83 | 692400 | 25.72 | ug/L | 100 |
| 27) 1,2-Dichloroethane | 8.40 | 62 | 450434 | 24.91 | ug/L | 99 |
| 30) Cyclohexane | 7.96 | 56 | 607847 | 27.10 | ug/L | 100 |
| 31) 1,1,1-Trichloroethane | 7.87 | 97 | 528344 | 26.22 | ug/L | 98 |
| 32) Carbon tetrachloride | 8.07 | 117 | 497690 | 25.63 | ug/L | 99 |
| 34) Benzene | 8.32 | 78 | 1541761 | 26.37 | ug/L | 100 |
| 35) Trichloroethene | 9.09 | 95 | 380026 | 25.84 | ug/L | 99 |
| 36) Methylcyclohexane | 9.34 | 83 | 689881 | 26.72 | ug/L | 99 |
| 40) 1,2-Dichloropropane | 9.37 | 63 | 405407 | 26.18 | ug/L | 99 |
| 41) Bromodichloromethane | 9.65 | 83 | 469257 | 25.22 | ug/L | 98 |
| 42) cis-1,3-Dichloropropene | 10.08 | 75 | 542074 | 25.59 | ug/L | 98 |
| 43) 4-Methyl-2-pentanone | 10.21 | 43 | 565184 | 48.67 | ug/L | 99 |
| 44) Toluene | 10.39 | 91 | 1577346 | 26.80 | ug/L | 100 |
| 45) trans-1,3-Dichloropropene | 10.61 | 75 | 490355 | 25.75 | ug/L | 98 |
| 46) 1,1,2-Trichloroethane | 10.79 | 97 | 303713 | 25.23 | ug/L | 98 |
| 47) Tetrachloroethene | 10.87 | 164 | 301323 | 25.89 | ug/L | 99 |
| 49) 2-Hexanone | 10.98 | 43 | 436411 | 50.01 | ug/L | 98 |
| 50) Dibromochloromethane | 11.13 | 129 | 336876 | 25.22 | ug/L | 99 |
| 51) 1,2-Dibromoethane | 11.24 | 107 | 286361 | 24.81 | ug/L | 98 |
| 52) Chlorobenzene | 11.66 | 112 | 1025522 | 25.77 | ug/L | 99 |
| 53) Ethylbenzene | 11.74 | 91 | 1783044 | 26.96 | ug/L | 99 |
| 54) m,p-Xylene | 11.84 | 106 | 678472 | 27.50 | ug/L | 97 |
| 55) o-xylene | 12.17 | 106 | 641427 | 27.44 | ug/L | 100 |
| 56) Styrene | 12.19 | 104 | 1153036 | 28.31 | ug/L | 99 |
| 57) Isopropylbenzene | 12.47 | 105 | 1777770 | 28.10 | ug/L | 100 |
| 58) 1,1,2,2-Tetrachloroethane | 12.72 | 83 | 426363 | 24.40 | ug/L | 98 |
| 59) 1,2,3-Trichloropropane | 12.77 | 75 | 315413 | 24.17 | ug/L | 99 |
| 62) Bromoform | 12.35 | 173 | 212448 | 23.58 | ug/L | 99 |
| 63) 1,3-Dichlorobenzene | 13.51 | 146 | 789425 | 25.60 | ug/L | 99 |
| 64) 1,4-Dichlorobenzene | 13.58 | 146 | 839455 | 25.32 | ug/L | 99 |
| 65) 1,2-Dichlorobenzene | 13.88 | 146 | 787613 | 25.49 | ug/L | 99 |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75 | 68420 | 21.55 | ug/L | 98 |
| 67) 1,3,5-Trichlorobenzene | 14.64 | 180 | 636324 | 26.03 | ug/L | 99 |
| 68) 1,2,4-trichlorobenzene | 15.15 | 180 | 517855 | 26.18 | ug/L | 99 |
| 69) Naphthalene | 15.38 | 128 | 1137551 | 25.22 | ug/L | 100 |
| 70) 1,2,3-Trichlorobenzene | 15.57 | 180 | 514689 | 26.72 | ug/L | 99 |

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

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**ClientSampleId :** VSTD02582

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