Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101818\
Data File : VL032655.D
Acq On : 18 Oct 2018 17:24
Operator : SY/AP
Sample : VSTDICC001
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 18 19:22:32 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Oct 1
QLast Update : Thu Oct 18 11:41:40 2018
Response via : Initial Calibration

**Instrument :** MSVOA_L
**ClientSampleId :** VSTDICC001

**Manual Integrations APPROVED**
MMDadoda
10/24/2018 12:04:26 PM

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.78 | 49 | 1757483 | 10.00 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 7.31 | 114 | 4179442 | 10.00 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 12.26 | 117 | 4023607 | 10.00 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.59 | 95 | 3020181 | 9.97 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.70% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 3.09 | 85 | 244829 | 1.412 | ppbv | | 99 |
| 3) Chlorodifluoromethane | 3.03 | 51 | 146515 | 0.996 | ppbv | | 96 |
| 4) Chloromethane | 3.18 | 50 | 78633 | 0.980 | ppbv | | 95 |
| 5) Vinyl Chloride | 3.30 | 62 | 81532 | 1.008 | ppbv | | 93 |
| 6) Bromomethane | 3.53 | 94 | 63089 | 1.235 | ppbv | | 98 |
| 7) Chloroethane | 3.62 | 64 | 37875 | 1.196 | ppbv | # | 88 |
| 8) Dichlorotetrafluoroethane | 3.23 | 85 | 204652 | 1.033 | ppbv | | 95 |
| 9) Propene | 3.05 | 41 | 56713 | 1.052 | ppbv | | 99 |
| 10) Heptane | 8.26 | 43 | 216728 | 1.074 | ppbv | | 100 |
| 11) Trichlorofluoromethane | 4.02 | 101 | 283234 | 1.255 | ppbv | | 97 |
| 12) 1,1,2-Trichlorotrifluoroet | 4.57 | 101 | 208043 | 1.259 | ppbv | | 95 |
| 13) Ethanol | 3.68 | 45 | 16928 | 1.015 | ppbv | | 79 |
| 14) Bromoethene | 3.80 | 108 | 75346 | 1.246 | ppbv | | 97 |
| 15) Acetone | 3.92 | 43 | 195653 | 1.251 | ppbv | | 98 |
| 16) 1,3-Butadiene | 3.38 | 39 | 58988 | 1.019 | ppbv | | 90 |
| 17) tert-Butyl alcohol | 4.39 | 59 | 41586m | 2.913 | ppbv | | |
| 18) 1,1-Dichloroethene | 4.37 | 96 | 89873 | 1.206 | ppbv | | 93 |
| 19) Isopropyl Alcohol | 4.05 | 45 | 142383 | 1.289 | ppbv | # | 96 |
| 20) Methylene Chloride | 4.42 | 84 | 90195 | 1.287 | ppbv | | 98 |
| 21) Allyl Chloride | 4.49 | 41 | 120313 | 1.025 | ppbv | | 97 |
| 22) trans-1,2-Dichloroethene | 4.98 | 96 | 86837 | 1.008 | ppbv | | 86 |
| 23) Vinyl Acetate | 5.17 | 43 | 297471 | 1.196 | ppbv | | 98 |
| 24) 1,1-Dichloroethane | 5.10 | 63 | 239645 | 1.039 | ppbv | # | 99 |
| 25) Ethyl Acetate | 5.79 | 43 | 392080 | 1.059 | ppbv | | 100 |
| 26) Hexane | 5.80 | 57 | 184522 | 1.107 | ppbv | | 98 |
| 27) Carbon Disulfide | 4.64 | 76 | 208444 | 1.035 | ppbv | # | 94 |
| 28) Methyl tert-Butyl Ether | 5.14 | 73 | 260370 | 1.243 | ppbv | | 100 |
| 29) Chloroform | 5.86 | 83 | 301359 | 1.032 | ppbv | | 97 |
| 30) Cyclohexane | 7.26 | 84 | 132001 | 1.004 | ppbv | | 91 |
| 31) cis-1,2-Dichloroethene | 5.66 | 61 | 159605 | 0.997 | ppbv | | 93 |
| 32) 1,1,1-Trichloroethane | 6.63 | 97 | 277945 | 0.954 | ppbv | | 100 |
| 34) 2-Butanone | 5.35 | 43 | 243767 | 1.051 | ppbv | | 98 |
| 35) Carbon Tetrachloride | 7.15 | 117 | 296039 | 0.914 | ppbv | | 96 |
| 36) Benzene | 7.02 | 78 | 343818 | 1.015 | ppbv | | 94 |
| 37) 1,2-Dichloroethane | 6.43 | 62 | 214488 | 0.923 | ppbv | | 98 |
| 38) Trichloroethene | 7.98 | 130 | 133400 | 1.047 | ppbv | | 98 |
| 39) 1,2-Dichloropropane | 7.75 | 63 | 134203 | 0.974 | ppbv | | 96 |
| 40) 1,4-Dioxane | 8.00 | 88 | 48187m | 1.012 | ppbv | | |
| 41) Tetrahydrofuran | 6.18 | 42 | 117644 | 0.956 | ppbv | | 98 |
| 42) Bromodichloromethane | 7.93 | 83 | 299490 | 0.946 | ppbv | | 89 |
| 43) Methyl Methacrylate | 8.16 | 69 | 118225 | 0.900 | ppbv | | 96 |

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ALS Vial : 1 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Time: Oct 18 19:22:32 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Oct 1
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Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,2,4-Trimethylpentane | 8.01 | 57 | 617777 | 1.029 | ppbv | | 97 |
| 45) t-1,3-Dichloropropene | 9.43 | 75 | 143095 | 0.833 | ppbv | | 97 |
| 46) cis-1,3-Dichloropropene | 8.85 | 75 | 179984 | 0.920 | ppbv | | 96 |
| 47) 1,1,2-Trichloroethane | 9.63 | 97 | 153086 | 0.930 | ppbv | | 93 |
| 48) Dibromochloromethane | 10.47 | 129 | 249419 | 0.892 | ppbv | | 100 |
| 49) Bromoform | 13.22 | 173 | 201896 | 0.955 | ppbv | | 100 |
| 50) 4-Methyl-2-Pentanone | 8.90 | 43 | 340688 | 0.998 | ppbv | | 97 |
| 51) 2-Hexanone | 10.31 | 43 | 229995 | 0.857 | ppbv | # | 94 |
| 52) Tetrachloroethene | 11.39 | 164 | 113306 | 1.016 | ppbv | | 93 |
| 53) Toluene | 9.97 | 91 | 375833 | 0.973 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 10.78 | 107 | 204552 | 0.867 | ppbv | | 96 |
| 56) 1,1,1,2-Tetrachloroethane | 12.29 | 131 | 189113 | 1.024 | ppbv | # | 1 |
| 57) Chlorobenzene | 12.32 | 112 | 317261 | 1.037 | ppbv | | 98 |
| 58) Ethyl Benzene | 12.88 | 91 | 471129 | 1.043 | ppbv | | 98 |
| 59) m/p-Xylene | 13.17 | 91 | 884451m | 2.193 | ppbv | | |
| 60) o-Xylene | 13.87 | 91 | 431310 | 1.073 | ppbv | | 99 |
| 61) Styrene | 13.70 | 104 | 263062 | 1.080 | ppbv | | 98 |
| 62) Isopropylbenzene | 14.84 | 105 | 603185 | 1.053 | ppbv | | 98 |
| 63) 1,1,2,2-Tetrachloroethane | 13.85 | 83 | 333368 | 0.940 | ppbv | | 99 |
| 64) n-propylbenzene | 15.74 | 120 | 148907 | 1.026 | ppbv | | 92 |
| 65) tert-Butylbenzene | 16.93 | 119 | 523711 | 1.078 | ppbv | | 99 |
| 66) Benzyl Chloride | 17.17 | 91 | 227746 | 0.831 | ppbv | | 98 |
| 67) sec-Butylbenzene | 17.47 | 105 | 737446 | 1.008 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 17.83 | 119 | 584364 | 1.056 | ppbv | | 99 |
| 70) n-Butylbenzene | 18.73 | 91 | 591820 | 0.971 | ppbv | | 98 |
| 71) 2-Chlorotoluene | 15.63 | 91 | 424884 | 1.004 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 16.02 | 105 | 443997 | 1.022 | ppbv | | 97 |
| 73) 1,3,5-Trimethylbenzene | 16.17 | 105 | 438960 | 1.016 | ppbv | | 97 |
| 74) 1,2,4-Trimethylbenzene | 16.94 | 105 | 491339 | 1.033 | ppbv | # | 81 |
| 75) 1,3-Dichlorobenzene | 17.18 | 146 | 277554 | 1.004 | ppbv | | 98 |
| 76) 1,4-Dichlorobenzene | 17.32 | 146 | 244024 | 0.968 | ppbv | | 97 |
| 77) 1,2-Dichlorobenzene | 18.01 | 146 | 259763 | 0.977 | ppbv | | 98 |
| 78) Hexachloro-1,3-Butadiene | 23.56 | 225 | 134044 | 0.901 | ppbv | | 99 |
| 79) Naphthalene | 22.44 | 128 | 232030 | 0.717 | ppbv | # | 95 |
| 80) Naphthalene,2-methyl- | 25.14 | 142 | 19077 | 0.304 | ppbv | # | 89 |
| 81) 1,2,4-Trichlorobenzene | 22.15 | 180 | 128624m | 0.801 | ppbv | | |

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

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