Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070219\
Data File : VL033991.D
Acq On : 2 Jul 2019 14:59
Operator : SY/AP
Sample : VSTDICC001
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 02 16:39:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL070219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Jul 0
QLast Update : Tue Jul 02 16:27:55 2019
Response via : Initial Calibration

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

**Manual Integrations APPROVED**
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| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.73 | 49 | 1126062 | 10.00 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 7.26 | 114 | 2937945 | 10.00 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 12.20 | 117 | 2824557 | 10.00 | ppbv | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.54 | 95 | 2278743 | 9.82 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 98.20% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 3.06 | 85 | 271023 | 1.483 | ppbv | 97 |
| 3) Chlorodifluoromethane | 3.00 | 51 | 147776 | 1.115 | ppbv | 99 |
| 4) Chloromethane | 3.16 | 50 | 83564 | 1.105 | ppbv | 90 |
| 5) Vinyl Chloride | 3.28 | 62 | 88983 | 1.268 | ppbv | 98 |
| 6) Bromomethane | 3.50 | 94 | 53719 | 1.153 | ppbv | 94 |
| 7) Chloroethane | 3.58 | 64 | 33043 | 1.191 | ppbv | 99 |
| 8) Dichlorotetrafluoroethane | 3.20 | 85 | 243395 | 1.246 | ppbv | 100 |
| 9) Propene | 3.02 | 41 | 51560 | 1.039 | ppbv | 95 |
| 10) Heptane | 8.22 | 43 | 121552 | 0.969 | ppbv | 97 |
| 11) Trichlorofluoromethane | 3.99 | 101 | 257987 | 1.094 | ppbv | 97 |
| 12) 1,1,2-Trichlorotrifluoroet | 4.53 | 101 | 187453 | 1.176 | ppbv | 99 |
| 13) Ethanol | 3.64 | 45 | 20664m | 1.280 | ppbv | |
| 14) Bromoethene | 3.77 | 108 | 70121 | 1.181 | ppbv | 99 |
| 15) Acetone | 3.89 | 43 | 197800 | 1.204 | ppbv | 99 |
| 16) 1,3-Butadiene | 3.35 | 39 | 66015 | 1.056 | ppbv | 97 |
| 17) tert-Butyl alcohol | 4.35 | 59 | 151424 | 1.179 | ppbv | 98 |
| 18) 1,1-Dichloroethene | 4.33 | 96 | 78060 | 1.160 | ppbv | 98 |
| 19) Isopropyl Alcohol | 4.01 | 45 | 132719 | 1.415 | ppbv # | 94 |
| 20) Methylene Chloride | 4.38 | 84 | 84960m | 1.327 | ppbv | |
| 21) Allyl Chloride | 4.45 | 41 | 111833 | 1.199 | ppbv | 98 |
| 22) trans-1,2-Dichloroethene | 4.94 | 96 | 82554 | 1.164 | ppbv | 96 |
| 23) Vinyl Acetate | 5.13 | 43 | 199365 | 1.044 | ppbv | 97 |
| 24) 1,1-Dichloroethane | 5.06 | 63 | 174045 | 1.172 | ppbv | 98 |
| 25) Ethyl Acetate | 5.74 | 43 | 261075 | 1.044 | ppbv | 99 |
| 26) Hexane | 5.75 | 57 | 121946 | 1.071 | ppbv | 97 |
| 27) Carbon Disulfide | 4.60 | 76 | 184973 | 1.169 | ppbv # | 91 |
| 28) Methyl tert-Butyl Ether | 5.10 | 73 | 199591 | 1.159 | ppbv | 100 |
| 29) Chloroform | 5.82 | 83 | 236773 | 1.214 | ppbv | 100 |
| 30) Cyclohexane | 7.22 | 84 | 84481 | 1.050 | ppbv | 95 |
| 31) cis-1,2-Dichloroethene | 5.62 | 61 | 104722 | 1.049 | ppbv | 93 |
| 32) 1,1,1-Trichloroethane | 6.59 | 97 | 217003 | 1.153 | ppbv | 99 |
| 34) 2-Butanone | 5.31 | 43 | 156594 | 0.945 | ppbv | 99 |
| 35) Carbon Tetrachloride | 7.10 | 117 | 229121 | 1.009 | ppbv | 88 |
| 36) Benzene | 6.97 | 78 | 218515 | 0.974 | ppbv | 98 |
| 37) 1,2-Dichloroethane | 6.38 | 62 | 170522 | 1.027 | ppbv | 99 |
| 38) Trichloroethene | 7.93 | 130 | 94533 | 1.082 | ppbv | 92 |
| 39) 1,2-Dichloropropane | 7.70 | 63 | 85199 | 0.984 | ppbv # | 91 |
| 40) 1,4-Dioxane | 7.95 | 88 | 43462m | 1.230 | ppbv | |
| 41) Tetrahydrofuran | 6.14 | 42 | 69589m | 0.827 | ppbv | |
| 42) Bromodichloromethane | 7.89 | 83 | 225417 | 1.016 | ppbv | 95 |
| 43) Methyl Methacrylate | 8.11 | 69 | 80059 | 0.954 | ppbv | 96 |

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**Instrument :** MSVOA_L
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| Internal Standards | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,2,4-Trimethylpentane | 7.96 | 57 | 396089 | 0.992 ppbv | | 97 |
| 45) t-1,3-Dichloropropene | 9.38 | 75 | 91098 | 0.827 ppbv | | 91 |
| 46) cis-1,3-Dichloropropene | 8.80 | 75 | 112412m | 0.891 ppbv | | |
| 47) 1,1,2-Trichloroethane | 9.58 | 97 | 104024 | 1.007 ppbv | | 96 |
| 48) Dibromochloromethane | 10.41 | 129 | 185732 | 1.001 ppbv | | 97 |
| 49) Bromoform | 13.16 | 173 | 170100 | 1.038 ppbv | | 98 |
| 50) 4-Methyl-2-Pentanone | 8.85 | 43 | 224835 | 0.910 ppbv | | 98 |
| 51) 2-Hexanone | 10.25 | 43 | 158657 | 0.822 ppbv | # | 95 |
| 52) Tetrachloroethene | 11.33 | 164 | 96964 | 1.228 ppbv | # | 83 |
| 53) Toluene | 9.91 | 91 | 240141 | 0.967 ppbv | | 96 |
| 54) 1,2-Dibromoethane | 10.72 | 107 | 155484 | 0.999 ppbv | | 99 |
| 56) 1,1,1,2-Tetrachloroethane | 12.24 | 131 | 134013m | 1.086 ppbv | | |
| 57) Chlorobenzene | 12.26 | 112 | 239528 | 1.132 ppbv | | 94 |
| 58) Ethyl Benzene | 12.83 | 91 | 339182 | 1.065 ppbv | | 93 |
| 59) m/p-Xylene | 13.11 | 91 | 643808m | 2.223 ppbv | | |
| 60) o-Xylene | 13.81 | 91 | 326088 | 1.091 ppbv | | 99 |
| 61) Styrene | 13.65 | 104 | 189890m | 0.981 ppbv | | |
| 62) Isopropylbenzene | 14.79 | 105 | 425614 | 1.056 ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 13.80 | 83 | 247100 | 1.098 ppbv | | 98 |
| 64) n-propylbenzene | 15.69 | 120 | 113332m | 1.098 ppbv | | |
| 65) tert-Butylbenzene | 16.88 | 119 | 390502 | 1.047 ppbv | | 96 |
| 66) Benzyl Chloride | 17.12 | 91 | 166404 | 0.881 ppbv | | 96 |
| 67) sec-Butylbenzene | 17.42 | 105 | 568968 | 1.088 ppbv | | 98 |
| 69) p-Isopropyltoluene | 17.78 | 119 | 457532 | 1.051 ppbv | | 99 |
| 70) n-Butylbenzene | 18.67 | 91 | 490660m | 1.029 ppbv | | |
| 71) 2-Chlorotoluene | 15.58 | 91 | 298091 | 1.004 ppbv | | 97 |
| 72) 4-Ethyltoluene | 15.97 | 105 | 355656 | 1.045 ppbv | | 97 |
| 73) 1,3,5-Trimethylbenzene | 16.12 | 105 | 369010 | 1.101 ppbv | | 100 |
| 74) 1,2,4-Trimethylbenzene | 16.89 | 105 | 415655 | 1.076 ppbv | | 97 |
| 75) 1,3-Dichlorobenzene | 17.13 | 146 | 267333m | 1.105 ppbv | | |
| 76) 1,4-Dichlorobenzene | 17.27 | 146 | 241074 | 1.085 ppbv | | 97 |
| 77) 1,2-Dichlorobenzene | 17.96 | 146 | 248004m | 1.111 ppbv | | |
| 78) Hexachloro-1,3-Butadiene | 23.51 | 225 | 226857m | 1.301 ppbv | | |
| 79) Naphthalene | 22.37 | 128 | 318838 | 1.033 ppbv | # | 91 |
| 80) Naphthalene,2-methyl- | 25.08 | 142 | 94414 | 0.766 ppbv | | 98 |
| 81) 1,2,4-Trichlorobenzene | 22.09 | 180 | 218870m | 1.123 ppbv | | |

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

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