Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
Data File : VL041680.D
Acq On : 7 Nov 2024 14:12
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 08 00:13:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Nov 08 00:07:44 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 5.192 | 49 | 1139788 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 6.655 | 114 | 3182548 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 11.468 | 117 | 3271350 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 13.780 | 95 | 2357958 | 9.746 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 97.500% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.729 | 85 | 3118931 | 15.140 | ppbv | 99 |
| 3) Chlorodifluoromethane | 2.674 | 51 | 2003229 | 13.489 | ppbv | 99 |
| 4) Chloromethane | 2.813 | 50 | 1085629 | 13.801 | ppbv | 95 |
| 5) Vinyl Chloride | 2.922 | 62 | 1061943 | 14.900 | ppbv | 99 |
| 6) Bromomethane | 3.121 | 94 | 543873 | 14.489 | ppbv | 99 |
| 7) Chloroethane | 3.198 | 64 | 374124 | 14.487 | ppbv | 99 |
| 8) Dichlorotetrafluoroethane | 2.858 | 85 | 2471590 | 13.440 | ppbv | 100 |
| 9) Propene | 2.694 | 41 | 906594 | 14.010 | ppbv | 99 |
| 10) Heptane | 7.581 | 43 | 2284371 | 15.754 | ppbv | 98 |
| 11) Trichlorofluoromethane | 3.562 | 101 | 2504580 | 13.958 | ppbv | 98 |
| 12) 1,1,2-Trichlorotrifluo... | 4.067 | 101 | 1834846 | 14.068 | ppbv | 100 |
| 13) Ethanol | 3.250 | 45 | 50975m | 12.664 | ppbv | |
| 14) Bromoethene | 3.366 | 108 | 755053 | 14.401 | ppbv | 98 |
| 15) Acetone | 3.469 | 43 | 1886393 | 13.448 | ppbv | 99 |
| 16) 1,3-Butadiene | 2.986 | 39 | 1081107 | 15.371 | ppbv | 99 |
| 17) tert-Butyl alcohol | 3.880 | 59 | 1663672 | 13.516 | ppbv | 100 |
| 18) 1,1-Dichloroethene | 3.880 | 96 | 834933 | 14.596 | ppbv | 93 |
| 19) Isopropyl Alcohol | 3.575 | 45 | 910280 | 13.406 | ppbv | 100 |
| 20) Methylene Chloride | 3.932 | 84 | 687212 | 13.313 | ppbv | 96 |
| 21) Allyl Chloride | 3.996 | 41 | 1317025 | 15.194 | ppbv | 99 |
| 22) trans-1,2-Dichloroethene | 4.446 | 96 | 842095 | 14.755 | ppbv | 97 |
| 23) Vinyl Acetate | 4.626 | 43 | 926796 | 14.047 | ppbv | 98 |
| 24) 1,1-Dichloroethane | 4.565 | 63 | 1790354 | 14.103 | ppbv | 99 |
| 25) Ethyl Acetate | 5.205 | 43 | 4234322 | 14.583 | ppbv | 100 |
| 26) Hexane | 5.211 | 57 | 1693823 | 15.184 | ppbv | 96 |
| 27) Carbon Disulfide | 4.124 | 76 | 2071779 | 16.531 | ppbv | 99 |
| 28) Methyl tert-Butyl Ether | 4.587 | 73 | 988726 | 13.764 | ppbv | 99 |
| 29) Chloroform | 5.276 | 83 | 2615593 | 14.204 | ppbv | 98 |
| 30) Cyclohexane | 6.600 | 84 | 1445757 | 16.132 | ppbv | 99 |
| 31) cis-1,2-Dichloroethene | 5.079 | 61 | 1655410 | 15.426 | ppbv | 98 |
| 32) 1,1,1-Trichloroethane | 6.005 | 97 | 2576420 | 15.262 | ppbv | 99 |
| 34) 2-Butanone | 4.787 | 43 | 2382292 | 15.033 | ppbv | 100 |
| 35) Carbon Tetrachloride | 6.497 | 117 | 2728914 | 16.220 | ppbv | 98 |
| 36) Benzene | 6.372 | 78 | 3579956 | 15.182 | ppbv | 100 |
| 37) 1,2-Dichloroethane | 5.809 | 62 | 1992504 | 14.978 | ppbv | 99 |
| 38) Trichloroethene | 7.295 | 130 | 1492186 | 16.410 | ppbv | 98 |
| 39) 1,2-Dichloropropane | 7.076 | 63 | 1405373 | 15.081 | ppbv | 99 |
| 40) 1,4-Dioxane | 7.285 | 88 | 545340 | 16.521 | ppbv | 93 |
| 41) Tetrahydrofuran | 5.555 | 42 | 1449986 | 16.040 | ppbv | 99 |
| 42) Bromodichloromethane | 7.253 | 83 | 2869440 | 15.522 | ppbv | 99 |
| 43) Methyl Methacrylate | 7.475 | 69 | 1439612 | 17.388 | ppbv | 99 |
| 44) 2,2,4-Trimethylpentane | 7.327 | 57 | 5922866 | 14.828 | ppbv | 100 |
| 45) t-1,3-Dichloropropene | 8.713 | 75 | 1469151 | 19.850 | ppbv | 97 |

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| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 46) | cis-1,3-Dichloropropene | 8.144 | 75 | 1964082 | 18.259 | ppbv | | 98 |
| 47) | 1,1,2-Trichloroethane | 8.902 | 97 | 1496508 | 14.895 | ppbv | | 99 |
| 48) | Dibromochloromethane | 9.713 | 129 | 2521147 | 16.444 | ppbv | | 100 |
| 49) | Bromoform | 12.413 | 173 | 2265132 | 17.318 | ppbv | | 99 |
| 50) | 4-Methyl-2-Pentanone | 8.182 | 43 | 3873850 | 15.919 | ppbv | | 99 |
| 51) | 2-Hexanone | 9.552 | 43 | 3096656 | 17.512 | ppbv | # | 99 |
| 52) | Tetrachloroethene | 10.616 | 164 | 1362327 | 16.900 | ppbv | | 98 |
| 53) | Toluene | 9.224 | 91 | 4192947 | 16.909 | ppbv | | 100 |
| 54) | 1,2-Dibromoethane | 10.012 | 107 | 2047188 | 17.451 | ppbv | | 99 |
| 56) | 1,1,1,2-Tetrachloroethane | 11.510 | 131 | 1851127 | 13.588 | ppbv | | 98 |
| 57) | Chlorobenzene | 11.529 | 112 | 3280487 | 13.453 | ppbv | | 99 |
| 58) | Ethyl Benzene | 12.092 | 91 | 5635176 | 15.550 | ppbv | | 98 |
| 59) | m/p-Xylene | 12.372 | 91 | 9532832m | 29.406 | ppbv | | |
| 60) | o-Xylene | 13.063 | 91 | 4598783 | 14.859 | ppbv | | 100 |
| 61) | Styrene | 12.902 | 104 | 2329096 | 18.233 | ppbv | | 100 |
| 62) | Isopropylbenzene | 14.031 | 105 | 6769619 | 14.169 | ppbv | | 99 |
| 63) | 1,1,2,2-Tetrachloroethane | 13.050 | 83 | 3217179 | 14.277 | ppbv | | 100 |
| 64) | n-propylbenzene | 14.918 | 120 | 1875181 | 15.010 | ppbv | | 95 |
| 65) | tert-Butylbenzene | 16.095 | 119 | 6075642 | 14.149 | ppbv | | 100 |
| 66) | Benzyl Chloride | 16.333 | 91 | 602019 | 19.466 | ppbv | | 99 |
| 67) | sec-Butylbenzene | 16.638 | 105 | 8477471 | 14.008 | ppbv | | 99 |
| 69) | p-Isopropyltoluene | 16.999 | 119 | 7127872 | 14.562 | ppbv | | 99 |
| 70) | n-Butylbenzene | 17.889 | 91 | 7337569 | 14.625 | ppbv | | 98 |
| 71) | 2-Chlorotoluene | 14.806 | 91 | 5195848 | 15.038 | ppbv | | 99 |
| 72) | 4-Ethyltoluene | 15.198 | 105 | 5625512 | 15.652 | ppbv | | 99 |
| 73) | 1,3,5-Trimethylbenzene | 15.355 | 105 | 4772611 | 15.144 | ppbv | | 99 |
| 74) | 1,2,4-Trimethylbenzene | 16.114 | 105 | 5199497 | 14.183 | ppbv | | 95 |
| 75) | 1,3-Dichlorobenzene | 16.336 | 146 | 3296952 | 14.559 | ppbv | | 100 |
| 76) | 1,4-Dichlorobenzene | 16.478 | 146 | 3204404 | 14.402 | ppbv | | 100 |
| 77) | 1,2-Dichlorobenzene | 17.150 | 146 | 3223835 | 14.336 | ppbv | | 100 |
| 78) | Hexachloro-1,3-Butadiene | 22.638 | 225 | 2162938 | 12.158 | ppbv | | 99 |
| 79) | Naphthalene | 21.391 | 128 | 4363777 | 19.355 | ppbv | | 99 |
| 80) | Naphthalene,2-methyl- | 24.374 | 142 | 967466m | 23.129 | ppbv | | |
| 81) | 1,2,4-Trichlorobenzene | 21.146 | 180 | 2238509 | 15.962 | ppbv | | 100 |

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

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