

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050522\  
 Data File : VL038966.D  
 Acq On : 5 May 2022 9:45  
 Operator : SY/AP  
 Sample : VL0505ABS01  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 VL0505ABS01

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/07/2022  
 Supervised By : Mahesh Dadoda 05/09/2022

Quant Time: May 07 15:03:27 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522A  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
 QLast Update : Thu May 05 07:41:27 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1255789  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 2974792  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 2855914m | 10.00 | ppbv  | 0.00     |

## System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.40  | 95    | 2266286  | 10.02    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.20% |

## Target Compounds

|                                |      |     |         |        | Ovalue   |
|--------------------------------|------|-----|---------|--------|----------|
| 2) Dichlorodifluoromethane     | 3.05 | 85  | 1848389 | 9.394  | ppbv 98  |
| 3) Chlorodifluoromethane       | 2.99 | 51  | 1486973 | 9.542  | ppbv 99  |
| 4) Chloromethane               | 3.14 | 50  | 736494  | 9.438  | ppbv 99  |
| 5) Vinyl Chloride              | 3.26 | 62  | 700820  | 9.835  | ppbv 97  |
| 6) Bromomethane                | 3.47 | 94  | 352110  | 10.460 | ppbv 96  |
| 7) Chloroethane                | 3.55 | 64  | 241249  | 10.115 | ppbv 97  |
| 8) Dichlorotetrafluoroethane   | 3.19 | 85  | 1766965 | 9.909  | ppbv 98  |
| 9) Propene                     | 3.01 | 41  | 631571  | 9.281  | ppbv 96  |
| 10) Heptane                    | 8.11 | 43  | 1588875 | 9.517  | ppbv 98  |
| 11) Trichlorofluoromethane     | 3.95 | 101 | 1692984 | 10.028 | ppbv 98  |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48 | 101 | 1173530 | 10.091 | ppbv 98  |
| 13) Ethanol                    | 3.61 | 45  | 45264m  | 8.518  | ppbv     |
| 14) Bromoethene                | 3.74 | 108 | 506341  | 10.558 | ppbv 98  |
| 15) Acetone                    | 3.84 | 43  | 1173633 | 9.908  | ppbv 99  |
| 16) 1,3-Butadiene              | 3.33 | 39  | 676095  | 9.934  | ppbv 100 |
| 17) tert-Butyl alcohol         | 4.28 | 59  | 1049202 | 11.524 | ppbv 98  |
| 18) 1,1-Dichloroethene         | 4.29 | 96  | 535413  | 10.697 | ppbv 99  |
| 19) Isopropyl Alcohol          | 3.95 | 45  | 633922  | 11.255 | ppbv 100 |
| 20) Methylene Chloride         | 4.34 | 84  | 433935  | 9.719  | ppbv 98  |
| 21) Allyl Chloride             | 4.40 | 41  | 840331  | 10.410 | ppbv 97  |
| 22) trans-1,2-Dichloroethene   | 4.88 | 96  | 561038  | 10.377 | ppbv 97  |
| 23) Vinyl Acetate              | 5.07 | 43  | 1026211 | 10.949 | ppbv 99  |
| 24) 1,1-Dichloroethane         | 5.00 | 63  | 1093483 | 10.132 | ppbv 99  |
| 25) Ethyl Acetate              | 5.66 | 43  | 2825751 | 9.966  | ppbv 100 |
| 26) Hexane                     | 5.68 | 57  | 1190228 | 9.448  | ppbv 99  |
| 27) Carbon Disulfide           | 4.54 | 76  | 1345324 | 11.242 | ppbv 99  |
| 28) Methyl tert-Butyl Ether    | 5.02 | 73  | 997590  | 10.408 | ppbv 99  |
| 29) Chloroform                 | 5.74 | 83  | 1995367 | 9.790  | ppbv 99  |
| 30) Cyclohexane                | 7.12 | 84  | 995856  | 9.442  | ppbv 99  |
| 31) cis-1,2-Dichloroethene     | 5.54 | 61  | 1273684 | 9.924  | ppbv 99  |
| 32) 1,1,1-Trichloroethane      | 6.50 | 97  | 2022359 | 9.924  | ppbv 99  |
| 34) 2-Butanone                 | 5.23 | 43  | 1354995 | 8.928  | ppbv 97  |
| 35) Carbon Tetrachloride       | 7.01 | 117 | 2080834 | 10.616 | ppbv 98  |
| 36) Benzene                    | 6.88 | 78  | 2430222 | 9.546  | ppbv 98  |
| 37) 1,2-Dichloroethane         | 6.29 | 62  | 1669484 | 10.599 | ppbv 98  |
| 38) Trichloroethene            | 7.82 | 130 | 1058569 | 9.354  | ppbv 98  |
| 39) 1,2-Dichloropropane        | 7.60 | 63  | 963813  | 9.730  | ppbv 91  |
| 40) 1,4-Dioxane                | 7.82 | 88  | 308058m | 8.659  | ppbv     |
| 41) Tetrahydrofuran            | 6.04 | 42  | 1030533 | 10.103 | ppbv 98  |
| 42) Bromodichloromethane       | 7.78 | 83  | 2204106 | 10.235 | ppbv 97  |
| 43) Methyl Methacrylate        | 8.00 | 69  | 1050052 | 10.160 | ppbv 99  |

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| Internal Standards            | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.86  | 57   | 4206927  | 9.418  | ppbv  | 99       |
| 45) t-1,3-Dichloropropene     | 9.26  | 75   | 1173746  | 11.732 | ppbv  | 99       |
| 46) cis-1,3-Dichloropropene   | 8.69  | 75   | 1443538  | 10.881 | ppbv  | 100      |
| 47) 1,1,2-Trichloroethane     | 9.46  | 97   | 983739   | 9.549  | ppbv  | 98       |
| 48) Dibromochloromethane      | 10.29 | 129  | 1730069  | 10.317 | ppbv  | 99       |
| 49) Bromoform                 | 13.02 | 173  | 1300598  | 10.170 | ppbv  | 98       |
| 50) 4-Methyl-2-Pentanone      | 8.73  | 43   | 2522762  | 9.480  | ppbv  | 97       |
| 51) 2-Hexanone                | 10.11 | 43   | 2065346  | 10.633 | ppbv  | 100      |
| 52) Tetrachloroethene         | 11.21 | 164  | 826428   | 9.084  | ppbv  | 96       |
| 53) Toluene                   | 9.79  | 91   | 2784069  | 9.757  | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 10.60 | 107  | 1410041  | 10.053 | ppbv  | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.11 | 131  | 1183165  | 9.442  | ppbv  | 98       |
| 57) Chlorobenzene             | 12.13 | 112  | 1948772  | 9.103  | ppbv  | 99       |
| 58) Ethyl Benzene             | 12.69 | 91   | 3711504  | 9.030  | ppbv  | 98       |
| 59) m/p-Xylene                | 12.98 | 91   | 6417122m | 18.289 | ppbv  |          |
| 60) o-Xylene                  | 13.68 | 91   | 2968472  | 8.989  | ppbv  | 99       |
| 61) Styrene                   | 13.51 | 104  | 1710469  | 9.702  | ppbv  | 99       |
| 62) Isopropylbenzene          | 14.65 | 105  | 4235100  | 10.047 | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.66 | 83   | 1630864  | 8.387  | ppbv  | 99       |
| 64) n-propylbenzene           | 15.55 | 120  | 1075609  | 9.212  | ppbv  | 96       |
| 65) tert-Butylbenzene         | 16.73 | 119  | 3733525  | 8.823  | ppbv  | 99       |
| 66) Benzyl Chloride           | 16.97 | 91   | 604624   | 10.931 | ppbv  | 98       |
| 67) sec-Butylbenzene          | 17.27 | 105  | 5393892  | 8.923  | ppbv  | 99       |
| 69) p-Isopropyltoluene        | 17.63 | 119  | 4530561  | 9.277  | ppbv  | 100      |
| 70) n-Butylbenzene            | 18.53 | 91   | 5084198  | 9.799  | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 15.44 | 91   | 3200611  | 8.597  | ppbv  | 99       |
| 72) 4-Ethyltoluene            | 15.82 | 105  | 3572100  | 9.492  | ppbv  | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.98 | 105  | 3214616  | 9.489  | ppbv  | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.74 | 105  | 3410212  | 9.193  | ppbv  | 96       |
| 75) 1,3-Dichlorobenzene       | 16.98 | 146  | 1908981  | 9.393  | ppbv  | 99       |
| 76) 1,4-Dichlorobenzene       | 17.12 | 146  | 1905134  | 9.529  | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 17.80 | 146  | 1932487  | 9.614  | ppbv  | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.36 | 225  | 1797321  | 9.729  | ppbv  | 100      |
| 79) Naphthalene               | 22.17 | 128  | 3915435m | 12.995 | ppbv  |          |
| 80) Naphthalene, 2-methyl-    | 24.95 | 142  | 1096958  | 12.035 | ppbv  | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.90 | 180  | 2024755  | 11.468 | ppbv  | 100      |

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

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