

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060722\  
 Data File : VL039221.D  
 Acq On : 7 Jun 2022 22:55  
 Operator : SY/AP  
 Sample : N3214-14 0.1 LOQ  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 LOQ-AIR-02-QT2-2022

Manual Integrations  
 APPROVED

Quant Time: Jun 08 07:05:33 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122A

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Wed Jun 01 01:22:18 2022

Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 06/10/2022  
 Supervised By :Mahesh Dadoda 06/10/2022

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 674949   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 1566754  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 1361352  | 10.00 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 1159592  | 10.30    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 103.00% |

#### Target Compounds

|                                |      |     |        |              | Ovalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 3.05 | 85  | 28612m | 0.241 ppbv   |        |
| 3) Chlorodifluoromethane       | 2.99 | 51  | 15950  | 0.186 ppbv   | 92     |
| 4) Chloromethane               | 3.14 | 50  | 7807   | 0.177 ppbv   | 90     |
| 5) Vinyl Chloride              | 3.26 | 62  | 7623m  | 0.185 ppbv   |        |
| 6) Bromomethane                | 3.48 | 94  | 3569m  | 0.176 ppbv   |        |
| 7) Chloroethane                | 3.56 | 64  | 3252m  | 0.226 ppbv   |        |
| 8) Dichlorotetrafluoroethane   | 3.20 | 85  | 19764  | 0.182 ppbv   | 97     |
| 9) Propene                     | 3.02 | 41  | 10251m | 0.274 ppbv   |        |
| 10) Heptane                    | 8.12 | 43  | 9744m  | 0.112 ppbv   |        |
| 11) Trichlorofluoromethane     | 3.95 | 101 | 21879  | 0.204 ppbv   | 95     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101 | 16096m | 0.227 ppbv   |        |
| 13) Ethanol                    | 3.61 | 45  | 695    | 0.340 ppbv # | 100    |
| 14) Bromoethene                | 3.75 | 108 | 5284m  | 0.166 ppbv   |        |
| 15) Acetone                    | 3.87 | 43  | 24006m | 0.341 ppbv   |        |
| 16) 1,3-Butadiene              | 3.33 | 39  | 8463m  | 0.224 ppbv   |        |
| 17) tert-Butyl alcohol         | 4.32 | 59  | 11874m | 0.218 ppbv   |        |
| 18) 1,1-Dichloroethene         | 4.29 | 96  | 7325m  | 0.230 ppbv   |        |
| 19) Isopropyl Alcohol          | 4.00 | 45  | 6887m  | 0.209 ppbv   |        |
| 20) Methylene Chloride         | 4.34 | 84  | 12097m | 0.408 ppbv   |        |
| 21) Allyl Chloride             | 4.41 | 41  | 9371m  | 0.198 ppbv   |        |
| 22) trans-1,2-Dichloroethene   | 4.89 | 96  | 6135m  | 0.200 ppbv   |        |
| 23) Vinyl Acetate              | 5.09 | 43  | 12915m | 0.222 ppbv   |        |
| 24) 1,1-Dichloroethane         | 5.02 | 63  | 12496m | 0.157 ppbv   |        |
| 25) Ethyl Acetate              | 5.69 | 43  | 21332m | 0.135 ppbv   |        |
| 26) Hexane                     | 5.69 | 57  | 10326m | 0.148 ppbv   |        |
| 27) Carbon Disulfide           | 4.56 | 76  | 11499m | 0.159 ppbv   |        |
| 28) Methyl tert-Butyl Ether    | 5.05 | 73  | 13134m | 0.171 ppbv   |        |
| 29) Chloroform                 | 5.75 | 83  | 20853m | 0.178 ppbv   |        |
| 30) Cyclohexane                | 7.13 | 84  | 11652m | 0.199 ppbv   |        |
| 31) cis-1,2-Dichloroethene     | 5.55 | 61  | 11099m | 0.156 ppbv   |        |
| 32) 1,1,1-Trichloroethane      | 6.51 | 97  | 17111m | 0.149 ppbv   |        |
| 34) 2-Butanone                 | 5.27 | 43  | 12989m | 0.153 ppbv   |        |
| 35) Carbon Tetrachloride       | 7.02 | 117 | 17652m | 0.154 ppbv   |        |
| 36) Benzene                    | 6.89 | 78  | 17156m | 0.135 ppbv   |        |
| 37) 1,2-Dichloroethane         | 6.30 | 62  | 14891m | 0.178 ppbv   |        |
| 38) Trichloroethene            | 7.83 | 130 | 9511m  | 0.163 ppbv   |        |
| 39) 1,2-Dichloropropane        | 7.61 | 63  | 8251m  | 0.163 ppbv   |        |
| 40) 1,4-Dioxane                | 7.92 | 88  | 2849m  | 0.171 ppbv   |        |
| 41) Tetrahydrofuran            | 6.09 | 42  | 6047m  | 0.118 ppbv   |        |
| 42) Bromodichloromethane       | 7.79 | 83  | 16775m | 0.144 ppbv   |        |
| 43) Methyl Methacrylate        | 8.02 | 69  | 5755m  | 0.116 ppbv   |        |

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 QLast Update : Wed Jun 01 01:22:18 2022  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-------|-------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 27300m   | 0.123 | ppbv  |          |
| 45) t-1,3-Dichloropropene     | 9.29  | 75   | 3907m    | 0.076 | ppbv  |          |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 6174m    | 0.091 | ppbv  |          |
| 47) 1,1,2-Trichloroethane     | 9.48  | 97   | 8319m    | 0.158 | ppbv  |          |
| 48) Dibromochloromethane      | 10.30 | 129  | 9321m    | 0.099 | ppbv  |          |
| 49) Bromoform                 | 13.05 | 173  | 7022m    | 0.089 | ppbv  |          |
| 50) 4-Methyl-2-Pentanone      | 8.78  | 43   | 12800m   | 0.100 | ppbv  |          |
| 51) 2-Hexanone                | 10.16 | 43   | 10816m   | 0.109 | ppbv  |          |
| 52) Tetrachloroethene         | 11.22 | 164  | 6902m    | 0.139 | ppbv  |          |
| 53) Toluene                   | 9.80  | 91   | 17351m   | 0.118 | ppbv  |          |
| 54) 1,2-Dibromoethane         | 10.62 | 107  | 9128m    | 0.129 | ppbv  |          |
| 56) 1,1,1,2-Tetrachloroethane | 12.12 | 131  | 9602m    | 0.149 | ppbv  |          |
| 57) Chlorobenzene             | 12.14 | 112  | 15842m   | 0.155 | ppbv  |          |
| 58) Ethyl Benzene             | 12.71 | 91   | 22471m   | 0.120 | ppbv  |          |
| 59) m/p-Xylene                | 13.01 | 91   | 38767m   | 0.235 | ppbv  |          |
| 60) o-Xylene                  | 13.69 | 91   | 16584m   | 0.107 | ppbv  |          |
| 61) Styrene                   | 13.52 | 104  | 7986m    | 0.096 | ppbv  |          |
| 62) Isopropylbenzene          | 14.66 | 105  | 29597m   | 0.128 | ppbv  |          |
| 63) 1,1,2,2-Tetrachloroethane | 13.68 | 83   | 10294m   | 0.118 | ppbv  |          |
| 64) n-propylbenzene           | 15.57 | 120  | 5404m    | 0.095 | ppbv  |          |
| 65) tert-Butylbenzene         | 16.74 | 119  | 24260m   | 0.115 | ppbv  |          |
| 66) Benzyl Chloride           | 16.99 | 91   | 3369m    | 0.123 | ppbv  |          |
| 67) sec-Butylbenzene          | 17.30 | 105  | 32011m   | 0.111 | ppbv  |          |
| 69) p-Isopropyltoluene        | 17.65 | 119  | 25434m   | 0.105 | ppbv  |          |
| 70) n-Butylbenzene            | 18.54 | 91   | 26349m   | 0.106 | ppbv  |          |
| 71) 2-Chlorotoluene           | 15.45 | 91   | 22177m   | 0.126 | ppbv  |          |
| 72) 4-Ethyltoluene            | 15.84 | 105  | 17073m   | 0.094 | ppbv  |          |
| 73) 1,3,5-Trimethylbenzene    | 16.00 | 105  | 19380m   | 0.118 | ppbv  |          |
| 74) 1,2,4-Trimethylbenzene    | 16.76 | 105  | 21277m   | 0.116 | ppbv  |          |
| 75) 1,3-Dichlorobenzene       | 17.00 | 146  | 13815m   | 0.133 | ppbv  |          |
| 76) 1,4-Dichlorobenzene       | 17.13 | 146  | 12250m   | 0.119 | ppbv  |          |
| 77) 1,2-Dichlorobenzene       | 17.81 | 146  | 14452m   | 0.138 | ppbv  |          |
| 78) Hexachloro-1,3-Butadiene  | 23.37 | 225  | 13093m   | 0.137 | ppbv  |          |
| 79) Naphthalene               | 22.20 | 128  | 10614m   | 0.075 | ppbv  |          |
| 81) 1,2,4-Trichlorobenzene    | 21.93 | 180  | 8249m    | 0.092 | ppbv  |          |

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

