

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030320\  
 Data File : VL034766.D  
 Acq On : 3 Mar 2020 16:29  
 Operator : SY/AP  
 Sample : L1704-04  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-6-4

Manual Integrations  
 APPROVED

MMDadoda  
 3/4/2020 4:49:11 PM

Quant Time: Mar 04 06:43:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Feb 28 2020  
 QLast Update : Fri Feb 28 01:15:02 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.69  | 49   | 920024   | 10.00 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 7.21  | 114  | 1922112  | 10.00 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 12.14 | 117  | 1932930  | 10.00 | ppbv  | 0.03     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.48  | 95    | 1706291  | 10.77    | ppbv | 0.03    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 107.70% |

| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane | 3.02  | 85   | 40246m   | 0.277  | ppbv   |        |
| 3) Chlorodifluoromethane   | 2.96  | 51   | 24487m   | 0.247  | ppbv   |        |
| 4) Chloromethane           | 3.12  | 50   | 32470m   | 0.584  | ppbv   |        |
| 9) Propene                 | 3.00  | 41   | 139304m  | 3.356  | ppbv   |        |
| 10) Heptane                | 8.16  | 43   | 193596   | 1.812  | ppbv   | 99     |
| 11) Trichlorofluoromethane | 3.94  | 101  | 42838    | 0.337  | ppbv   | 97     |
| 13) Ethanol                | 3.59  | 45   | 537928   | 41.028 | ppbv   | 96     |
| 15) Acetone                | 3.83  | 43   | 4774715  | 45.544 | ppbv   | 95     |
| 17) tert-Butyl alcohol     | 4.30  | 59   | 74254m   | 0.924  | ppbv   |        |
| 19) Isopropyl Alcohol      | 3.97  | 45   | 121630   | 1.948  | ppbv # | 94     |
| 20) Methylene Chloride     | 4.34  | 84   | 178677   | 4.583  | ppbv   | 98     |
| 23) Vinyl Acetate          | 5.08  | 43   | 367842   | 2.581  | ppbv # | 94     |
| 26) Hexane                 | 5.70  | 57   | 365130   | 4.269  | ppbv # | 44     |
| 34) 2-Butanone             | 5.25  | 43   | 257231   | 2.126  | ppbv   | 96     |
| 36) Benzene                | 6.92  | 78   | 52097    | 0.314  | ppbv # | 87     |
| 41) Tetrahydrofuran        | 6.08  | 42   | 80031    | 1.253  | ppbv   | 98     |
| 53) Toluene                | 9.85  | 91   | 1895420  | 10.735 | ppbv   | 100    |
| 58) Ethyl Benzene          | 12.78 | 91   | 66773m   | 0.286  | ppbv   |        |
| 59) m/p-Xylene             | 13.02 | 91   | 248358m  | 1.218  | ppbv   |        |
| 60) o-Xylene               | 13.76 | 91   | 84703m   | 0.418  | ppbv   |        |
| 74) 1,2,4-Trimethylbenzene | 16.83 | 105  | 88616    | 0.370  | ppbv # | 71     |

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

