

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081822\  
 Data File : VL039560.D  
 Acq On : 18 Aug 2022 15:40  
 Operator : SY/AP  
 Sample : VL0818ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0818ABS01

Quant Time: Aug 19 03:02:15 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL081722AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Aug 17 12:06:24 2022  
 QLast Update : Wed Aug 17 12:06:24 2022  
 Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.211  | 49   | 1058640  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.671  | 114  | 2742371  | 10.000 | ppbv  | 0.01     |
| 55) Chlorobenzene-d5    | 11.481 | 117  | 2639323m | 10.000 | ppbv  | 0.01     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.786 | 95    | 2069458  | 10.416   | ppbv | 0.01     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 104.200% |

| Target Compounds              |       |     |         |        |        | Qvalue |
|-------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.754 | 85  | 1147941 | 8.068  | ppbv   | 97     |
| 3) Chlorodifluoromethane      | 2.700 | 51  | 1152108 | 9.080  | ppbv   | 100    |
| 4) Chloromethane              | 2.838 | 50  | 682266  | 8.993  | ppbv   | 96     |
| 5) Vinyl Chloride             | 2.944 | 62  | 611467  | 9.347  | ppbv   | 99     |
| 6) Bromomethane               | 3.144 | 94  | 238080  | 8.888  | ppbv   | 92     |
| 7) Chloroethane               | 3.224 | 64  | 220219  | 9.456  | ppbv   | 100    |
| 8) Dichlorotetrafluoroethane  | 2.883 | 85  | 1429044 | 9.352  | ppbv   | 98     |
| 9) Propene                    | 2.719 | 41  | 533275  | 9.226  | ppbv   | 99     |
| 10) Heptane                   | 7.597 | 43  | 1353875 | 10.084 | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 3.587 | 101 | 1434814 | 9.180  | ppbv   | 94     |
| 12) 1,1,2-Trichlorotrifluo... | 4.089 | 101 | 1047659 | 9.074  | ppbv   | 99     |
| 13) Ethanol                   | 3.263 | 45  | 25297   | 6.081  | ppbv   | 91     |
| 14) Bromoethene               | 3.391 | 108 | 445296  | 9.438  | ppbv   | 99     |
| 15) Acetone                   | 3.491 | 43  | 1079684 | 9.027  | ppbv   | 99     |
| 16) 1,3-Butadiene             | 3.012 | 39  | 570406  | 9.183  | ppbv   | 97     |
| 17) tert-Butyl alcohol        | 3.899 | 59  | 933266  | 9.138  | ppbv   | 98     |
| 18) 1,1-Dichloroethene        | 3.906 | 96  | 468519  | 9.000  | ppbv   | 98     |
| 19) Isopropyl Alcohol         | 3.597 | 45  | 583843  | 9.988  | ppbv # | 100    |
| 20) Methylene Chloride        | 3.957 | 84  | 404000  | 8.296  | ppbv   | 96     |
| 21) Allyl Chloride            | 4.018 | 41  | 775451  | 9.978  | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene  | 4.465 | 96  | 480444  | 9.289  | ppbv   | 98     |
| 23) Vinyl Acetate             | 4.645 | 43  | 546330  | 9.085  | ppbv   | 97     |
| 24) 1,1-Dichloroethane        | 4.587 | 63  | 978228  | 9.244  | ppbv   | 98     |
| 25) Ethyl Acetate             | 5.224 | 43  | 2370556 | 9.296  | ppbv   | 99     |
| 26) Hexane                    | 5.233 | 57  | 970693  | 9.282  | ppbv   | 99     |
| 27) Carbon Disulfide          | 4.147 | 76  | 1181516 | 10.590 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 4.610 | 73  | 829603  | 9.022  | ppbv   | 99     |
| 29) Chloroform                | 5.295 | 83  | 1513191 | 9.245  | ppbv   | 93     |
| 30) Cyclohexane               | 6.619 | 84  | 816771  | 9.406  | ppbv # | 100    |
| 31) cis-1,2-Dichloroethene    | 5.098 | 61  | 956662  | 9.461  | ppbv   | 100    |
| 32) 1,1,1-Trichloroethane     | 6.021 | 97  | 1465607 | 9.547  | ppbv   | 99     |
| 34) 2-Butanone                | 4.809 | 43  | 1345238 | 9.757  | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 6.510 | 117 | 1546196 | 10.022 | ppbv   | 99     |
| 36) Benzene                   | 6.388 | 78  | 2066493 | 9.887  | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 5.825 | 62  | 1138777 | 9.807  | ppbv   | 99     |
| 38) Trichloroethene           | 7.304 | 130 | 1160388 | 10.220 | ppbv   | 97     |
| 39) 1,2-Dichloropropane       | 7.089 | 63  | 793335  | 10.128 | ppbv   | 97     |
| 40) 1,4-Dioxane               | 7.307 | 88  | 316716  | 10.191 | ppbv   | 94     |
| 41) Tetrahydrofuran           | 5.578 | 42  | 848209  | 10.457 | ppbv   | 99     |
| 42) Bromodichloromethane      | 7.266 | 83  | 1614998 | 10.177 | ppbv   | 98     |
| 43) Methyl Methacrylate       | 7.491 | 69  | 819011  | 10.822 | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane    | 7.343 | 57  | 3485014 | 9.897  | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 8.725 | 75  | 804613  | 12.089 | ppbv   | 100    |

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 Sample : VL0818ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0818ABS01

Quant Time: Aug 19 03:02:15 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL081722AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Aug 17 12:06:24 2022  
 QLast Update : Wed Aug 17 12:06:24 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.159  | 75   | 1075352  | 11.741 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 8.912  | 97   | 862254   | 9.606  | ppbv   | 98       |
| 48) Dibromochloromethane      | 9.722  | 129  | 1435709  | 10.758 | ppbv   | 99       |
| 49) Bromoform                 | 12.416 | 173  | 1193850  | 10.813 | ppbv # | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.198  | 43   | 2239301  | 10.556 | ppbv   | 100      |
| 51) 2-Hexanone                | 9.565  | 43   | 1710552  | 10.940 | ppbv # | 99       |
| 52) Tetrachloroethene         | 10.629 | 164  | 785380   | 9.593  | ppbv   | 99       |
| 53) Toluene                   | 9.233  | 91   | 2459072  | 10.501 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.021 | 107  | 1035292  | 10.111 | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 11.519 | 131  | 1034645  | 9.524  | ppbv   | 96       |
| 57) Chlorobenzene             | 11.539 | 112  | 1868695  | 9.417  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.101 | 91   | 3225955  | 10.555 | ppbv   | 98       |
| 59) m/p-Xylene                | 12.388 | 91   | 5465470m | 19.889 | ppbv   |          |
| 60) o-Xylene                  | 13.072 | 91   | 2633175  | 9.994  | ppbv   | 99       |
| 61) Styrene                   | 12.912 | 104  | 1580610  | 11.245 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.040 | 105  | 3816236  | 9.572  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.063 | 83   | 1077939  | 8.136  | ppbv   | 100      |
| 64) n-propylbenzene           | 14.928 | 120  | 976423   | 9.392  | ppbv   | 97       |
| 65) tert-Butylbenzene         | 16.104 | 119  | 3350271  | 9.424  | ppbv   | 100      |
| 66) Benzyl Chloride           | 16.336 | 91   | 305776   | 10.025 | ppbv # | 91       |
| 67) sec-Butylbenzene          | 16.648 | 105  | 4642892  | 9.249  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.008 | 119  | 3922381  | 9.379  | ppbv   | 99       |
| 70) n-Butylbenzene            | 17.899 | 91   | 3897533  | 9.387  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 14.815 | 91   | 2794547  | 9.672  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.204 | 105  | 3107555  | 10.039 | ppbv # | 100      |
| 73) 1,3,5-Trimethylbenzene    | 15.365 | 105  | 2736212  | 9.679  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.121 | 105  | 2953356  | 9.370  | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 16.342 | 146  | 1749420  | 9.136  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 16.487 | 146  | 1723282  | 8.987  | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 17.156 | 146  | 1666601  | 8.883  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 22.641 | 225  | 1368759m | 9.183  | ppbv   |          |
| 79) Naphthalene               | 21.394 | 128  | 2883918  | 12.850 | ppbv   | 100      |
| 80) Naphthalene,2-methyl-     | 24.384 | 142  | 965970   | 10.892 | ppbv # | 100      |
| 81) 1,2,4-Trichlorobenzene    | 21.152 | 180  | 1606093  | 10.736 | ppbv # | 100      |

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

