

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081321\  
 Data File : VL037444.D  
 Acq On : 13 Aug 2021 11:56  
 Operator : SY/AP  
 Sample : VL0813ABS01  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0813ABS01

Manual Integrations  
 APPROVED

MMDadoda  
 8/16/2021 5:03:55 PM

Quant Time: Aug 13 12:34:21 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Aug 13 2021  
 QLast Update : Thu Aug 12 15:26:13 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1328586  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 4011284  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 3721044m | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 2620394  | 9.82     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.20% |

| Target Compounds               |      |     |         |        | Ovalue     |
|--------------------------------|------|-----|---------|--------|------------|
| 2) Dichlorodifluoromethane     | 3.05 | 85  | 1783181 | 8.785  | ppbv 99    |
| 3) Chlorodifluoromethane       | 2.99 | 51  | 2501674 | 9.589  | ppbv 98    |
| 4) Chloromethane               | 3.13 | 50  | 915539  | 9.762  | ppbv 99    |
| 5) Vinyl Chloride              | 3.25 | 62  | 910947  | 9.509  | ppbv 99    |
| 6) Bromomethane                | 3.47 | 94  | 438437  | 8.182  | ppbv 98    |
| 7) Chloroethane                | 3.56 | 64  | 311499  | 9.130  | ppbv 96    |
| 8) Dichlorotetrafluoroethane   | 3.19 | 85  | 2167390 | 9.567  | ppbv 99    |
| 9) Propene                     | 3.01 | 41  | 875529  | 9.994  | ppbv 100   |
| 10) Heptane                    | 8.12 | 43  | 2158287 | 10.131 | ppbv 100   |
| 11) Trichlorofluoromethane     | 3.95 | 101 | 2010665 | 9.154  | ppbv 97    |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48 | 101 | 1483699 | 9.643  | ppbv 96    |
| 13) Ethanol                    | 3.61 | 45  | 97454m  | 10.423 | ppbv       |
| 14) Bromoethene                | 3.74 | 108 | 642986  | 9.395  | ppbv 95    |
| 15) Acetone                    | 3.85 | 43  | 1140057 | 8.091  | ppbv 98    |
| 16) 1,3-Butadiene              | 3.32 | 39  | 904566  | 9.565  | ppbv 98    |
| 17) tert-Butyl alcohol         | 4.29 | 59  | 1241293 | 9.230  | ppbv 100   |
| 18) 1,1-Dichloroethene         | 4.29 | 96  | 633785  | 8.872  | ppbv 91    |
| 19) Isopropyl Alcohol          | 3.96 | 45  | 688695  | 8.399  | ppbv # 96  |
| 20) Methylene Chloride         | 4.34 | 84  | 614097  | 8.243  | ppbv 95    |
| 21) Allyl Chloride             | 4.41 | 41  | 1028082 | 9.312  | ppbv 100   |
| 22) trans-1,2-Dichloroethene   | 4.88 | 96  | 695036  | 10.372 | ppbv 99    |
| 23) Vinyl Acetate              | 5.07 | 43  | 1631818 | 7.548  | ppbv # 98  |
| 24) 1,1-Dichloroethane         | 5.01 | 63  | 1376601 | 8.198  | ppbv 98    |
| 25) Ethyl Acetate              | 5.67 | 43  | 3371000 | 10.039 | ppbv 99    |
| 26) Hexane                     | 5.68 | 57  | 1671479 | 9.645  | ppbv 98    |
| 27) Carbon Disulfide           | 4.55 | 76  | 1635139 | 11.192 | ppbv 100   |
| 28) Methyl tert-Butyl Ether    | 5.03 | 73  | 1478681 | 7.973  | ppbv 99    |
| 29) Chloroform                 | 5.75 | 83  | 2406750 | 9.865  | ppbv 98    |
| 30) Cyclohexane                | 7.12 | 84  | 1384607 | 9.702  | ppbv 99    |
| 31) cis-1,2-Dichloroethene     | 5.54 | 61  | 1556173 | 10.389 | ppbv 98    |
| 32) 1,1,1-Trichloroethane      | 6.51 | 97  | 2341684 | 9.510  | ppbv 99    |
| 34) 2-Butanone                 | 5.24 | 43  | 1468290 | 8.866  | ppbv 98    |
| 35) Carbon Tetrachloride       | 7.01 | 117 | 2443871 | 9.880  | ppbv 97    |
| 36) Benzene                    | 6.89 | 78  | 3385671 | 10.010 | ppbv 100   |
| 37) 1,2-Dichloroethane         | 6.30 | 62  | 1681011 | 9.739  | ppbv 99    |
| 38) Trichloroethene            | 7.83 | 130 | 1338692 | 8.967  | ppbv 97    |
| 39) 1,2-Dichloropropane        | 7.61 | 63  | 1284017 | 9.965  | ppbv 95    |
| 40) 1,4-Dioxane                | 7.83 | 88  | 300863  | 9.595  | ppbv # 100 |
| 41) Tetrahydrofuran            | 6.05 | 42  | 793387  | 10.432 | ppbv 96    |
| 42) Bromodichloromethane       | 7.79 | 83  | 2560461 | 10.593 | ppbv 100   |
| 43) Methyl Methacrylate        | 8.01 | 69  | 1225851 | 10.693 | ppbv 99    |

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| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.86  | 57   | 5617183  | 9.933  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.27  | 75   | 807640   | 9.481  | ppbv   | 99       |
| 46) cis-1,3-Dichloropropene   | 8.70  | 75   | 1097464  | 9.228  | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.47  | 97   | 1357194  | 9.744  | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.30 | 129  | 2142826  | 10.663 | ppbv   | 98       |
| 49) Bromoform                 | 13.03 | 173  | 1668060  | 10.954 | ppbv   | 94       |
| 50) 4-Methyl-2-Pentanone      | 8.74  | 43   | 2220539  | 10.658 | ppbv   | 100      |
| 51) 2-Hexanone                | 10.13 | 43   | 1091672  | 11.137 | ppbv # | 99       |
| 52) Tetrachloroethene         | 11.22 | 164  | 1232583  | 8.650  | ppbv   | 94       |
| 53) Toluene                   | 9.80  | 91   | 3956860  | 10.247 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.61 | 107  | 1899016  | 10.018 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.12 | 131  | 1468439  | 9.913  | ppbv   | 98       |
| 57) Chlorobenzene             | 12.14 | 112  | 2773676  | 9.197  | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.70 | 91   | 4841227  | 9.591  | ppbv   | 99       |
| 59) m/p-Xylene                | 12.99 | 91   | 8421330m | 18.992 | ppbv   |          |
| 60) o-Xylene                  | 13.69 | 91   | 3828729  | 9.295  | ppbv   | 100      |
| 61) Styrene                   | 13.52 | 104  | 2130118  | 10.235 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.66 | 105  | 5566858  | 9.450  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.67 | 83   | 2759615  | 8.883  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.55 | 120  | 1422263  | 9.595  | ppbv   | 98       |
| 65) tert-Butylbenzene         | 16.73 | 119  | 4871347m | 9.170  | ppbv   |          |
| 66) Benzyl Chloride           | 16.98 | 91   | 238262m  | 9.802  | ppbv   |          |
| 67) sec-Butylbenzene          | 17.28 | 105  | 6739858  | 9.324  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.64 | 119  | 5699853  | 9.607  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.54 | 91   | 5497750  | 9.970  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.44 | 91   | 3925811  | 9.422  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.83 | 105  | 4625321  | 9.673  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.99 | 105  | 4166638  | 9.217  | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 16.75 | 105  | 4405860  | 9.520  | ppbv   | 94       |
| 75) 1,3-Dichlorobenzene       | 16.99 | 146  | 2656378  | 9.379  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.13 | 146  | 2556901  | 9.106  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.81 | 146  | 2546958  | 9.346  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.36 | 225  | 1952771  | 8.846  | ppbv   | 99       |
| 79) Naphthalene               | 22.19 | 128  | 3243111  | 12.893 | ppbv   | 98       |
| 80) Naphthalene, 2-methyl-    | 24.96 | 142  | 836027   | 15.736 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 21.91 | 180  | 1950870  | 11.415 | ppbv   | 99       |

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

