

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL110520\  
 Data File : VL035890.D  
 Acq On : 6 Nov 2020 16:03  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Nov 07 00:06:29 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Nov 04 02:40:06 2020  
 QLast Update : Wed Nov 04 02:40:06 2020  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | AvqRF | CCRF   | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|--------|--------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000  | 0.0    | 78    | -0.02    |
| 2 T  | Dichlorodifluoromethane     | 1.883 | 2.092  | -11.1  | 104   | -0.01    |
| 3    | Chlorodifluoromethane       | 1.198 | 1.340  | -11.9  | 99    | 0.00     |
| 4    | Chloromethane               | 0.582 | 0.680  | -16.8  | 101   | -0.01    |
| 5 T  | Vinyl Chloride              | 0.742 | 0.858  | -15.6  | 103   | -0.01    |
| 6 T  | Bromomethane                | 0.596 | 0.695  | -16.6  | 102   | -0.01    |
| 7    | Chloroethane                | 0.261 | 0.314  | -20.3  | 103   | -0.01    |
| 8 T  | Dichlorotetrafluoroethane   | 2.155 | 2.458  | -14.1  | 104   | -0.01    |
| 9 T  | Propene                     | 0.438 | 0.527  | -20.3  | 103   | -0.01    |
| 10 T | Heptane                     | 1.211 | 1.518  | -25.4  | 107   | -0.02    |
| 11 T | Trichlorofluoromethane      | 2.364 | 2.937  | -24.2  | 108   | -0.01    |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.760 | 2.173  | -23.5  | 106   | -0.02    |
| 13   | Ethanol                     | 0.095 | 0.088  | 7.4    | 95    | -0.02    |
| 14 T | Bromoethene                 | 0.810 | 0.915  | -13.0  | 101   | -0.02    |
| 15 T | Acetone                     | 1.069 | 0.550  | 48.6#  | 50    | 0.00     |
| 16 T | 1,3-Butadiene               | 0.460 | 0.610  | -32.6# | 117   | -0.01    |
| 17   | tert-Butyl alcohol          | 1.417 | 0.479  | 66.2#  | 30    | -0.01    |
| 18 T | 1,1-Dichloroethene          | 0.808 | 0.983  | -21.7  | 105   | -0.01    |
| 19 T | Isopropyl Alcohol           | 0.657 | 0.296  | 54.9#  | 40    | -0.01    |
| 20 T | Methylene Chloride          | 0.753 | 0.812  | -7.8   | 106   | -0.02    |
| 21 T | Allyl Chloride              | 0.578 | 0.680  | -17.6  | 98    | -0.02    |
| 22 T | trans-1,2-Dichloroethene    | 0.819 | 0.999  | -22.0  | 103   | -0.02    |
| 23 T | Vinyl Acetate               | 1.499 | 1.585  | -5.7   | 94    | -0.01    |
| 24 T | 1,1-Dichloroethane          | 1.428 | 1.675  | -17.3  | 103   | -0.02    |
| 25 T | Ethyl Acetate               | 2.106 | 1.784  | 15.3   | 74    | -0.01    |
| 26 T | Hexane                      | 1.162 | 1.353  | -16.4  | 105   | -0.02    |
| 27 T | Carbon Disulfide            | 1.740 | 2.071  | -19.0  | 99    | -0.02    |
| 28 T | Methyl tert-Butyl Ether     | 2.086 | 1.626  | 22.1   | 72    | -0.01    |
| 29 T | Chloroform                  | 2.283 | 2.658  | -16.4  | 103   | -0.02    |
| 30 T | Cyclohexane                 | 1.265 | 1.429  | -13.0  | 103   | -0.02    |
| 31 T | cis-1,2-Dichloroethene      | 1.195 | 1.414  | -18.3  | 103   | -0.02    |
| 32 T | 1,1,1-Trichloroethane       | 2.382 | 2.618  | -9.9   | 103   | -0.02    |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0    | 78    | -0.02    |
| 34 T | 2-Butanone                  | 0.325 | 0.153  | 52.9#  | 39    | -0.01    |
| 35 T | Carbon Tetrachloride        | 0.534 | 0.686  | -28.5  | 104   | -0.02    |
| 36 T | Benzene                     | 0.743 | 0.858  | -15.5  | 101   | -0.02    |
| 37 T | 1,2-Dichloroethane          | 0.337 | 0.423  | -25.5  | 102   | -0.02    |
| 38 T | Trichloroethene             | 0.363 | 0.400  | -10.2  | 100   | -0.02    |
| 39 T | 1,2-Dichloropropane         | 0.250 | 0.294  | -17.6  | 101   | -0.02    |
| 40 T | 1,4-Dioxane                 | 0.119 | 0.030# | 74.8#  | 22    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.184 | 0.054  | 70.7#  | 23    | 0.00     |
| 42 T | Bromodichloromethane        | 0.568 | 0.707  | -24.5  | 100   | -0.02    |
| 43   | Methyl Methacrylate         | 0.284 | 0.205  | 27.8   | 59    | -0.02    |
| 44 T | 2,2,4-Trimethylpentane      | 0.984 | 1.161  | -18.0  | 103   | -0.02    |
| 45 T | t-1,3-Dichloropropene       | 0.301 | 0.309  | -2.7   | 80    | -0.02    |

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 LabSampleId :  
 VSTDCCC010

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Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | AvqRF | CCRF  | %Dev    | Area% | Dev(min) |
|------|---------------------------|-------|-------|---------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 0.381 | 0.405 | -6.3    | 86    | -0.02    |
| 47 T | 1,1,2-Trichloroethane     | 0.341 | 0.378 | -10.9   | 96    | -0.02    |
| 48 T | Dibromochloromethane      | 0.521 | 0.614 | -17.9   | 94    | -0.02    |
| 49 T | Bromoform                 | 0.440 | 0.452 | -2.7    | 81    | -0.02    |
| 50 T | 4-Methyl-2-Pentanone      | 0.496 | 0.196 | 60.5#   | 32    | 0.00     |
| 51 T | 2-Hexanone                | 0.399 | 0.077 | 80.7#   | 15#   | 0.00     |
| 52 T | Tetrachloroethene         | 0.352 | 0.380 | -8.0    | 102   | -0.02    |
| 53 T | Toluene                   | 0.897 | 1.047 | -16.7   | 102   | -0.02    |
| 54 T | 1,2-Dibromoethane         | 0.519 | 0.538 | -3.7    | 89    | -0.02    |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0     | 83    | -0.02    |
| 56   | 1,1,1,2-Tetrachloroethane | 0.449 | 0.429 | 4.5     | 85    | -0.02    |
| 57 T | Chlorobenzene             | 0.795 | 0.810 | -1.9    | 98    | -0.02    |
| 58 T | Ethyl Benzene             | 1.218 | 1.275 | -4.7    | 97    | -0.02    |
| 59 T | m/p-Xylene                | 1.030 | 1.074 | -4.3    | 97    | -0.02    |
| 60 T | o-Xylene                  | 1.002 | 1.025 | -2.3    | 95    | -0.02    |
| 61 T | Styrene                   | 0.734 | 0.443 | 39.6#   | 53    | -0.02    |
| 62   | Isopropylbenzene          | 1.576 | 1.361 | 13.6    | 84    | -0.02    |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.777 | 0.687 | 11.6    | 90    | -0.02    |
| 64   | n-propylbenzene           | 0.455 | 0.379 | 16.7    | 79    | -0.03    |
| 65   | tert-Butylbenzene         | 1.434 | 1.220 | 14.9    | 85    | -0.02    |
| 66 T | Benzyl Chloride           | 0.474 | 0.159 | 66.5#   | 31    | -0.02    |
| 67   | sec-Butylbenzene          | 1.933 | 1.637 | 15.3    | 85    | -0.02    |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.710 | 0.700 | 1.4     | 79    | -0.02    |
| 69   | p-Isopropyltoluene        | 1.595 | 1.392 | 12.7    | 87    | -0.02    |
| 70   | n-Butylbenzene            | 1.536 | 1.399 | 8.9     | 89    | -0.02    |
| 71   | 2-Chlorotoluene           | 1.152 | 1.021 | 11.4    | 84    | -0.02    |
| 72 T | 4-Ethyltoluene            | 1.216 | 1.208 | 0.7     | 94    | -0.02    |
| 73 T | 1,3,5-Trimethylbenzene    | 1.113 | 1.075 | 3.4     | 91    | -0.02    |
| 74 T | 1,2,4-Trimethylbenzene    | 1.192 | 1.130 | 5.2     | 93    | -0.02    |
| 75 T | 1,3-Dichlorobenzene       | 0.759 | 0.746 | 1.7     | 96    | -0.02    |
| 76 T | 1,4-Dichlorobenzene       | 0.732 | 0.736 | -0.5    | 96    | -0.02    |
| 77 T | 1,2-Dichlorobenzene       | 0.740 | 0.699 | 5.5     | 94    | -0.02    |
| 78 T | Hexachloro-1,3-Butadiene  | 0.345 | 0.517 | -49.9#  | 148   | -0.02    |
| 79 T | Naphthalene               | 0.831 | 1.279 | -53.9#  | 148   | -0.03    |
| 80 T | Naphthalene,2-methyl-     | 0.135 | 0.377 | -179.3# | 220#  | -0.02    |
| 81 T | 1,2,4-Trichlorobenzene    | 0.464 | 0.691 | -48.9#  | 146   | -0.03    |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0