

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072718\  
 Data File : VL032316.D  
 Acq On : 27 Jul 2018 11:18  
 Operator : SY/AP  
 Sample : VSTDICV010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVV072718

Quant Time: Jul 27 23:23:12 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jul 27 07:05:37 2018  
 QLast Update : Fri Jul 27 07:05:37 2018  
 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   | 101   | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.206 | 0.930 | 22.9  | 102   | 0.00     |
| 3    | Chlorodifluoromethane       | 1.000 | 0.955 | 4.5   | 96    | 0.00     |
| 4    | Chloromethane               | 0.605 | 0.586 | 3.1   | 95    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.550 | 0.536 | 2.5   | 94    | 0.00     |
| 6 T  | Bromomethane                | 0.302 | 0.297 | 1.7   | 98    | 0.00     |
| 7    | Chloroethane                | 0.196 | 0.200 | -2.0  | 100   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.218 | 1.079 | 11.4  | 93    | 0.00     |
| 9 T  | Propene                     | 0.450 | 0.479 | -6.4  | 100   | 0.00     |
| 10 T | Heptane                     | 1.578 | 1.615 | -2.3  | 94    | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.152 | 1.061 | 7.9   | 94    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 0.787 | 0.741 | 5.8   | 99    | 0.00     |
| 13   | Ethanol                     | 0.129 | 0.131 | -1.6  | 109   | 0.00     |
| 14 T | Bromoethene                 | 0.345 | 0.349 | -1.2  | 98    | 0.00     |
| 15 T | Acetone                     | 0.942 | 0.901 | 4.4   | 103   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.489 | 0.449 | 8.2   | 92    | 0.00     |
| 17   | tert-Butyl alcohol          | 0.300 | 0.286 | 4.7   | 88    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.365 | 0.348 | 4.7   | 94    | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.629 | 0.702 | -11.6 | 100   | 0.00     |
| 20 T | Methylene Chloride          | 0.379 | 0.320 | 15.6  | 91    | 0.00     |
| 21 T | Allyl Chloride              | 0.643 | 0.648 | -0.8  | 95    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.352 | 0.364 | -3.4  | 97    | 0.00     |
| 23 T | Vinyl Acetate               | 1.691 | 1.734 | -2.5  | 96    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.213 | 1.134 | 6.5   | 94    | 0.00     |
| 25 T | Ethyl Acetate               | 2.115 | 1.966 | 7.0   | 94    | 0.00     |
| 26 T | Hexane                      | 0.957 | 0.906 | 5.3   | 96    | 0.00     |
| 27 T | Carbon Disulfide            | 0.870 | 0.905 | -4.0  | 95    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 1.294 | 1.358 | -4.9  | 97    | 0.00     |
| 29 T | Chloroform                  | 1.392 | 1.283 | 7.8   | 94    | 0.00     |
| 30 T | Cyclohexane                 | 0.747 | 0.780 | -4.4  | 97    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 0.887 | 0.921 | -3.8  | 95    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 1.232 | 1.235 | -0.2  | 92    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 34 T | 2-Butanone                  | 0.647 | 0.641 | 0.9   | 97    | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.568 | 0.575 | -1.2  | 95    | 0.00     |
| 36 T | Benzene                     | 0.881 | 0.880 | 0.1   | 95    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.509 | 0.448 | 12.0  | 89    | 0.00     |
| 38 T | Trichloroethene             | 0.341 | 0.344 | -0.9  | 94    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.443 | 0.342 | 22.8  | 77    | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.130 | 0.142 | -9.2  | 102   | 0.00     |
| 41 T | Tetrahydrofuran             | 0.366 | 0.397 | -8.5  | 100   | 0.00     |
| 42 T | Bromodichloromethane        | 0.825 | 0.802 | 2.8   | 95    | 0.00     |
| 43   | Methyl Methacrylate         | 0.423 | 0.446 | -5.4  | 96    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.911 | 1.832 | 4.1   | 96    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.490 | 0.550 | -12.2 | 95    | 0.00     |

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 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|---------------------------|-------|-------|--------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 0.601 | 0.651 | -8.3   | 95    | 0.00     |
| 47 T | 1,1,2-Trichloroethane     | 0.431 | 0.399 | 7.4    | 94    | 0.00     |
| 48 T | Dibromochloromethane      | 0.635 | 0.515 | 18.9   | 78    | 0.00     |
| 49 T | Bromoform                 | 0.523 | 0.506 | 3.3    | 92    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 1.142 | 1.146 | -0.4   | 96    | 0.00     |
| 51 T | 2-Hexanone                | 0.870 | 0.946 | -8.7   | 99    | 0.00     |
| 52 T | Tetrachloroethene         | 0.297 | 0.298 | -0.3   | 93    | 0.00     |
| 53 T | Toluene                   | 1.054 | 1.143 | -8.4   | 97    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.613 | 0.594 | 3.1    | 94    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0    | 100   | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.412 | 0.355 | 13.8   | 93    | 0.00     |
| 57 T | Chlorobenzene             | 0.778 | 0.648 | 16.7   | 92    | 0.00     |
| 58 T | Ethyl Benzene             | 1.254 | 1.227 | 2.2    | 95    | 0.00     |
| 59 T | m/p-Xylene                | 1.067 | 0.972 | 8.9    | 93    | 0.00     |
| 60 T | o-Xylene                  | 1.046 | 0.947 | 9.5    | 94    | 0.00     |
| 61 T | Styrene                   | 0.770 | 0.760 | 1.3    | 92    | 0.00     |
| 62   | Isopropylbenzene          | 1.487 | 1.353 | 9.0    | 94    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.852 | 0.707 | 17.0   | 94    | 0.00     |
| 64   | n-propylbenzene           | 0.387 | 0.350 | 9.6    | 93    | 0.00     |
| 65   | tert-Butylbenzene         | 1.256 | 1.098 | 12.6   | 94    | 0.00     |
| 66 T | Benzyl Chloride           | 0.749 | 0.707 | 5.6    | 85    | 0.00     |
| 67   | sec-Butylbenzene          | 1.881 | 1.651 | 12.2   | 94    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.776 | 0.760 | 2.1    | 105   | 0.00     |
| 69   | p-Isopropyltoluene        | 1.457 | 1.310 | 10.1   | 94    | 0.00     |
| 70   | n-Butylbenzene            | 1.683 | 1.459 | 13.3   | 92    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.167 | 1.079 | 7.5    | 94    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.173 | 1.116 | 4.9    | 93    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.154 | 1.054 | 8.7    | 93    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.217 | 1.029 | 15.4   | 93    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.705 | 0.574 | 18.6   | 92    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.676 | 0.582 | 13.9   | 92    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.693 | 0.570 | 17.7   | 91    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.244 | 0.346 | -41.8# | 172#  | 0.00     |
| 79 T | Naphthalene               | 1.056 | 1.018 | 3.6    | 94    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.418 | 0.509 | -21.8  | 95    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.528 | 0.480 | 9.1    | 92    | 0.00     |

(#) = Out of Range

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