

Data Path : W:\HPCHEM1\MSVOA L\Data\VL060118\  
 Data File : VL032025.D  
 Acq On : 1 Jun 2018 15:57  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Jun 02 02:14:44 2018  
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL053118AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jun 01 02:31:35 2018  
 QLast Update : Fri Jun 01 02:31:35 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.203 | 0.885 | 26.4  | 92    | 0.00     |
| 3    | Chlorodifluoromethane       | 0.941 | 0.863 | 8.3   | 103   | 0.00     |
| 4    | Chloromethane               | 0.477 | 0.451 | 5.5   | 104   | 0.00     |
| 5 T  | Vinyl Chloride              | 0.530 | 0.473 | 10.8  | 104   | 0.00     |
| 6 T  | Bromomethane                | 0.364 | 0.337 | 7.4   | 103   | 0.00     |
| 7    | Chloroethane                | 0.226 | 0.198 | 12.4  | 103   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.311 | 1.170 | 10.8  | 103   | 0.00     |
| 9 T  | Propene                     | 0.307 | 0.323 | -5.2  | 100   | 0.00     |
| 10 T | Heptane                     | 1.090 | 1.115 | -2.3  | 100   | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.851 | 1.398 | 24.5  | 96    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.270 | 1.125 | 11.4  | 99    | 0.00     |
| 13   | Ethanol                     | 0.120 | 0.098 | 18.3  | 103   | 0.00     |
| 14 T | Bromoethene                 | 0.446 | 0.383 | 14.1  | 100   | 0.00     |
| 15 T | Acetone                     | 1.206 | 0.957 | 20.6  | 98    | 0.00     |
| 16 T | 1,3-Butadiene               | 0.440 | 0.420 | 4.5   | 94    | 0.00     |
| 17   | tert-Butyl alcohol          | 0.578 | 0.596 | -3.1  | 109   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.552 | 0.517 | 6.3   | 107   | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.798 | 0.783 | 1.9   | 107   | 0.00     |
| 20 T | Methylene Chloride          | 0.548 | 0.477 | 13.0  | 106   | 0.00     |
| 21 T | Allyl Chloride              | 0.850 | 0.824 | 3.1   | 102   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.594 | 0.566 | 4.7   | 101   | 0.00     |
| 23 T | Vinyl Acetate               | 1.633 | 1.681 | -2.9  | 104   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.589 | 1.496 | 5.9   | 103   | 0.00     |
| 25 T | Ethyl Acetate               | 2.388 | 2.306 | 3.4   | 101   | 0.00     |
| 26 T | Hexane                      | 1.110 | 1.076 | 3.1   | 99    | 0.00     |
| 27 T | Carbon Disulfide            | 1.454 | 1.429 | 1.7   | 96    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 1.374 | 1.472 | -7.1  | 106   | 0.00     |
| 29 T | Chloroform                  | 1.873 | 1.711 | 8.6   | 99    | 0.00     |
| 30 T | Cyclohexane                 | 0.656 | 0.696 | -6.1  | 101   | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 0.999 | 1.028 | -2.9  | 99    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 1.527 | 1.439 | 5.8   | 103   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 34 T | 2-Butanone                  | 0.786 | 0.821 | -4.5  | 104   | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.853 | 0.791 | 7.3   | 100   | 0.00     |
| 36 T | Benzene                     | 0.879 | 0.931 | -5.9  | 105   | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.634 | 0.644 | -1.6  | 103   | 0.00     |
| 38 T | Trichloroethene             | 0.337 | 0.377 | -11.9 | 104   | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.324 | 0.329 | -1.5  | 102   | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.139 | 0.133 | 4.3   | 94    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.338 | 0.338 | 0.0   | 87    | 0.00     |
| 42 T | Bromodichloromethane        | 0.792 | 0.782 | 1.3   | 101   | 0.00     |
| 43   | Methyl Methacrylate         | 0.306 | 0.342 | -11.8 | 99    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.505 | 1.528 | -1.5  | 101   | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.414 | 0.508 | -22.7 | 102   | 0.00     |

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

|      | Compound                  | AvgRF | CCRF  | %Dev    | Area% | Dev(min) |
|------|---------------------------|-------|-------|---------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 0.525 | 0.611 | -16.4   | 101   | 0.00     |
| 47 T | 1,1,2-Trichloroethane     | 0.400 | 0.394 | 1.5     | 103   | 0.00     |
| 48 T | Dibromochloromethane      | 0.662 | 0.679 | -2.6    | 101   | 0.00     |
| 49 T | Bromoform                 | 0.520 | 0.532 | -2.3    | 96    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.764 | 0.805 | -5.4    | 100   | 0.00     |
| 51 T | 2-Hexanone                | 0.686 | 0.775 | -13.0   | 101   | 0.00     |
| 52 T | Tetrachloroethene         | 0.349 | 0.359 | -2.9    | 102   | 0.00     |
| 53 T | Toluene                   | 0.983 | 1.098 | -11.7   | 101   | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.586 | 0.605 | -3.2    | 102   | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0     | 101   | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.483 | 0.430 | 11.0    | 99    | 0.00     |
| 57 T | Chlorobenzene             | 0.913 | 0.816 | 10.6    | 100   | 0.00     |
| 58 T | Ethyl Benzene             | 1.406 | 1.443 | -2.6    | 98    | 0.00     |
| 59 T | m/p-Xylene                | 1.233 | 1.192 | 3.3     | 97    | 0.00     |
| 60 T | o-Xylene                  | 1.236 | 1.218 | 1.5     | 98    | 0.00     |
| 61 T | Styrene                   | 0.239 | 0.289 | -20.9   | 97    | 0.00     |
| 62   | Isopropylbenzene          | 1.577 | 1.507 | 4.4     | 97    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.958 | 0.799 | 16.6    | 96    | 0.00     |
| 64   | n-propylbenzene           | 0.394 | 0.378 | 4.1     | 96    | 0.00     |
| 65   | tert-Butylbenzene         | 1.378 | 1.283 | 6.9     | 96    | 0.00     |
| 66 T | Benzyl Chloride           | 0.153 | 0.136 | 11.1    | 92    | 0.00     |
| 67   | sec-Butylbenzene          | 2.000 | 1.831 | 8.5     | 96    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.772 | 0.724 | 6.2     | 96    | 0.00     |
| 69   | p-Isopropyltoluene        | 1.549 | 1.494 | 3.6     | 96    | 0.00     |
| 70   | n-Butylbenzene            | 1.596 | 1.504 | 5.8     | 96    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.159 | 1.124 | 3.0     | 95    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.230 | 1.242 | -1.0    | 94    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.135 | 1.120 | 1.3     | 97    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.279 | 1.178 | 7.9     | 95    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.879 | 0.752 | 14.4    | 96    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.837 | 0.750 | 10.4    | 95    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.832 | 0.719 | 13.6    | 96    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.330 | 0.257 | 22.1    | 102   | 0.00     |
| 79 T | Naphthalene               | 0.724 | 0.870 | -20.2   | 98    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.179 | 0.462 | -158.1# | 107   | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.425 | 0.456 | -7.3    | 99    | 0.00     |

(#) = Out of Range

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