

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL121718\  
 Data File : VL032997.D  
 Acq On : 17 Dec 2018 13:01  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Dec 18 01:22:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Dec 07 09:35:17 2018  
 QLast Update : Fri Dec 07 09:35:17 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   | 100   | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.335 | 1.399 | -4.8  | 110   | 0.00     |
| 3    | Chlorodifluoromethane       | 0.757 | 0.772 | -2.0  | 110   | 0.00     |
| 4    | Chloromethane               | 0.441 | 0.423 | 4.1   | 110   | 0.00     |
| 5 T  | Vinyl Chloride              | 0.449 | 0.438 | 2.4   | 109   | 0.00     |
| 6 T  | Bromomethane                | 0.281 | 0.287 | -2.1  | 108   | 0.00     |
| 7    | Chloroethane                | 0.161 | 0.167 | -3.7  | 110   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.109 | 1.102 | 0.6   | 107   | 0.00     |
| 9 T  | Propene                     | 0.299 | 0.327 | -9.4  | 118   | 0.00     |
| 10 T | Heptane                     | 1.125 | 1.065 | 5.3   | 92    | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.258 | 1.237 | 1.7   | 104   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.073 | 0.878 | 18.2  | 90    | 0.00     |
| 13   | Ethanol                     | 0.103 | 0.075 | 27.2  | 108   | 0.00     |
| 14 T | Bromoethene                 | 0.356 | 0.385 | -8.1  | 108   | 0.00     |
| 15 T | Acetone                     | 0.858 | 0.793 | 7.6   | 109   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.341 | 0.363 | -6.5  | 109   | 0.00     |
| 17   | tert-Butyl alcohol          | 0.219 | 0.212 | 3.2   | 98    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.420 | 0.410 | 2.4   | 108   | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.539 | 0.558 | -3.5  | 111   | 0.00     |
| 20 T | Methylene Chloride          | 0.420 | 0.346 | 17.6  | 91    | 0.00     |
| 21 T | Allyl Chloride              | 0.699 | 0.629 | 10.0  | 91    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.522 | 0.522 | 0.0   | 112   | 0.00     |
| 23 T | Vinyl Acetate               | 1.453 | 1.658 | -14.1 | 118   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.264 | 1.244 | 1.6   | 111   | 0.00     |
| 25 T | Ethyl Acetate               | 2.028 | 2.016 | 0.6   | 101   | 0.00     |
| 26 T | Hexane                      | 0.936 | 0.927 | 1.0   | 99    | 0.00     |
| 27 T | Carbon Disulfide            | 1.170 | 1.224 | -4.6  | 107   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 1.406 | 1.563 | -11.2 | 113   | 0.00     |
| 29 T | Chloroform                  | 1.670 | 1.552 | 7.1   | 96    | 0.00     |
| 30 T | Cyclohexane                 | 0.776 | 0.788 | -1.5  | 99    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 0.859 | 0.963 | -12.1 | 110   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 1.767 | 1.609 | 8.9   | 97    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 34 T | 2-Butanone                  | 0.436 | 0.513 | -17.7 | 115   | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.786 | 0.708 | 9.9   | 97    | 0.00     |
| 36 T | Benzene                     | 0.736 | 0.759 | -3.1  | 100   | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.501 | 0.481 | 4.0   | 94    | 0.00     |
| 38 T | Trichloroethene             | 0.306 | 0.313 | -2.3  | 97    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.279 | 0.272 | 2.5   | 96    | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.103 | 0.094 | 8.7   | 94    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.271 | 0.295 | -8.9  | 101   | 0.00     |
| 42 T | Bromodichloromethane        | 0.694 | 0.649 | 6.5   | 91    | 0.00     |
| 43   | Methyl Methacrylate         | 0.273 | 0.287 | -5.1  | 92    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.249 | 1.221 | 2.2   | 93    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.334 | 0.410 | -22.8 | 96    | 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   | 0.409 | 0.471 | -15.2 | 97    | 0.00     |
| 47 T | 1,1,2-Trichloroethane     | 0.307 | 0.311 | -1.3  | 97    | 0.00     |
| 48 T | Dibromochloromethane      | 0.576 | 0.583 | -1.2  | 95    | 0.00     |
| 49 T | Bromoform                 | 0.474 | 0.596 | -25.7 | 114   | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.697 | 0.708 | -1.6  | 96    | 0.00     |
| 51 T | 2-Hexanone                | 0.472 | 0.536 | -13.6 | 94    | 0.00     |
| 52 T | Tetrachloroethene         | 0.268 | 0.306 | -14.2 | 109   | 0.00     |
| 53 T | Toluene                   | 0.780 | 0.868 | -11.3 | 96    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.480 | 0.481 | -0.2  | 94    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.446 | 0.424 | 4.9   | 110   | 0.00     |
| 57 T | Chlorobenzene             | 0.722 | 0.699 | 3.2   | 114   | 0.00     |
| 58 T | Ethyl Benzene             | 1.067 | 1.221 | -14.4 | 114   | 0.00     |
| 59 T | m/p-Xylene                | 0.967 | 1.027 | -6.2  | 112   | -0.02    |
| 60 T | o-Xylene                  | 0.977 | 0.961 | 1.6   | 107   | 0.00     |
| 61 T | Styrene                   | 0.650 | 0.726 | -11.7 | 103   | 0.00     |
| 62   | Isopropylbenzene          | 1.363 | 1.491 | -9.4  | 116   | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.758 | 0.655 | 13.6  | 106   | 0.00     |
| 64   | n-propylbenzene           | 0.354 | 0.365 | -3.1  | 105   | 0.00     |
| 65   | tert-Butylbenzene         | 1.263 | 1.287 | -1.9  | 101   | 0.00     |
| 66 T | Benzyl Chloride           | 0.700 | 0.767 | -9.6  | 104   | 0.00     |
| 67   | sec-Butylbenzene          | 1.863 | 1.796 | 3.6   | 100   | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.739 | 0.734 | 0.7   | 108   | 0.00     |
| 69   | p-Isopropyltoluene        | 1.509 | 1.499 | 0.7   | 103   | 0.00     |
| 70   | n-Butylbenzene            | 1.389 | 1.325 | 4.6   | 96    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.013 | 1.043 | -3.0  | 102   | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.090 | 1.152 | -5.7  | 104   | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.065 | 1.122 | -5.4  | 112   | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.202 | 1.153 | 4.1   | 101   | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.708 | 0.655 | 7.5   | 103   | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.660 | 0.636 | 3.6   | 101   | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.661 | 0.650 | 1.7   | 106   | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.364 | 0.370 | -1.6  | 137   | 0.00     |
| 79 T | Naphthalene               | 0.776 | 0.819 | -5.5  | 103   | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.166 | 0.208 | -25.3 | 99    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.412 | 0.406 | 1.5   | 104   | 0.00     |

(#) = Out of Range

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