

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL051420\  
 Data File : VL035040.D  
 Acq On : 15 May 2020 10:44  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: May 16 00:45:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed May 06 14:49:39 2020  
 QLast Update : Wed May 06 14:49:39 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   | 91    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.419 | 1.224 | 13.7  | 104   | 0.00     |
| 3    | Chlorodifluoromethane       | 1.142 | 1.064 | 6.8   | 99    | 0.00     |
| 4    | Chloromethane               | 0.654 | 0.609 | 6.9   | 98    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.638 | 0.596 | 6.6   | 97    | 0.00     |
| 6 T  | Bromomethane                | 0.381 | 0.345 | 9.4   | 94    | 0.00     |
| 7    | Chloroethane                | 0.229 | 0.217 | 5.2   | 95    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.469 | 1.340 | 8.8   | 97    | 0.00     |
| 9 T  | Propene                     | 0.495 | 0.468 | 5.5   | 96    | 0.00     |
| 10 T | Heptane                     | 1.241 | 1.247 | -0.5  | 95    | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.463 | 1.370 | 6.4   | 97    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.042 | 0.938 | 10.0  | 93    | 0.00     |
| 13   | Ethanol                     | 0.163 | 0.131 | 19.6  | 89    | 0.00     |
| 14 T | Bromoethene                 | 0.431 | 0.423 | 1.9   | 94    | 0.00     |
| 15 T | Acetone                     | 1.322 | 1.124 | 15.0  | 102   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.569 | 0.546 | 4.0   | 98    | 0.00     |
| 17   | tert-Butyl alcohol          | 1.176 | 1.120 | 4.8   | 97    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.452 | 0.449 | 0.7   | 96    | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.882 | 0.803 | 9.0   | 94    | -0.01    |
| 20 T | Methylene Chloride          | 0.438 | 0.386 | 11.9  | 94    | 0.00     |
| 21 T | Allyl Chloride              | 0.747 | 0.748 | -0.1  | 94    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.448 | 0.432 | 3.6   | 91    | 0.00     |
| 23 T | Vinyl Acetate               | 1.676 | 1.693 | -1.0  | 98    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.291 | 1.192 | 7.7   | 95    | 0.00     |
| 25 T | Ethyl Acetate               | 2.221 | 2.157 | 2.9   | 98    | 0.00     |
| 26 T | Hexane                      | 0.963 | 0.938 | 2.6   | 97    | 0.00     |
| 27 T | Carbon Disulfide            | 1.135 | 1.074 | 5.4   | 86    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 1.466 | 1.422 | 3.0   | 94    | 0.00     |
| 29 T | Chloroform                  | 1.575 | 1.439 | 8.6   | 96    | 0.00     |
| 30 T | Cyclohexane                 | 0.743 | 0.777 | -4.6  | 96    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 0.939 | 0.961 | -2.3  | 98    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 1.423 | 1.370 | 3.7   | 95    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 92    | 0.00     |
| 34 T | 2-Butanone                  | 0.622 | 0.595 | 4.3   | 98    | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.631 | 0.588 | 6.8   | 92    | 0.00     |
| 36 T | Benzene                     | 0.824 | 0.797 | 3.3   | 96    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.509 | 0.477 | 6.3   | 97    | 0.00     |
| 38 T | Trichloroethene             | 0.319 | 0.303 | 5.0   | 97    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.331 | 0.319 | 3.6   | 98    | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.134 | 0.122 | 9.0   | 93    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.327 | 0.332 | -1.5  | 96    | 0.00     |
| 42 T | Bromodichloromethane        | 0.686 | 0.635 | 7.4   | 93    | 0.00     |
| 43   | Methyl Methacrylate         | 0.348 | 0.362 | -4.0  | 95    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.466 | 1.366 | 6.8   | 96    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.351 | 0.394 | -12.3 | 92    | 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   | 0.431 | 0.471 | -9.3   | 94    | 0.00     |
| 47 T | 1,1,2-Trichloroethane     | 0.349 | 0.321 | 8.0    | 94    | 0.00     |
| 48 T | Dibromochloromethane      | 0.536 | 0.512 | 4.5    | 90    | 0.00     |
| 49 T | Bromoform                 | 0.461 | 0.425 | 7.8    | 84    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.886 | 0.881 | 0.6    | 97    | 0.00     |
| 51 T | 2-Hexanone                | 0.693 | 0.721 | -4.0   | 96    | 0.00     |
| 52 T | Tetrachloroethene         | 0.293 | 0.279 | 4.8    | 98    | -0.01    |
| 53 T | Toluene                   | 0.874 | 0.909 | -4.0   | 96    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.512 | 0.491 | 4.1    | 95    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0    | 96    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.451 | 0.372 | 17.5   | 92    | 0.00     |
| 57 T | Chlorobenzene             | 0.792 | 0.645 | 18.6   | 94    | 0.00     |
| 58 T | Ethyl Benzene             | 1.237 | 1.162 | 6.1    | 95    | 0.00     |
| 59 T | m/p-Xylene                | 1.088 | 0.949 | 12.8   | 94    | 0.00     |
| 60 T | o-Xylene                  | 1.074 | 0.938 | 12.7   | 94    | 0.00     |
| 61 T | Styrene                   | 0.679 | 0.672 | 1.0    | 93    | 0.00     |
| 62   | Isopropylbenzene          | 1.603 | 1.382 | 13.8   | 93    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.845 | 0.644 | 23.8   | 91    | 0.00     |
| 64   | n-propylbenzene           | 0.411 | 0.358 | 12.9   | 92    | 0.00     |
| 65   | tert-Butylbenzene         | 1.390 | 1.189 | 14.5   | 94    | 0.00     |
| 66 T | Benzyl Chloride           | 0.472 | 0.429 | 9.1    | 81    | 0.00     |
| 67   | sec-Butylbenzene          | 1.985 | 1.721 | 13.3   | 95    | -0.01    |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.809 | 0.780 | 3.6    | 96    | 0.00     |
| 69   | p-Isopropyltoluene        | 1.606 | 1.442 | 10.2   | 97    | 0.00     |
| 70   | n-Butylbenzene            | 1.709 | 1.568 | 8.3    | 101   | 0.00     |
| 71   | 2-Chlorotoluene           | 1.210 | 1.072 | 11.4   | 94    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.198 | 1.094 | 8.7    | 95    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.166 | 1.027 | 11.9   | 94    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.272 | 1.072 | 15.7   | 96    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.747 | 0.627 | 16.1   | 99    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.710 | 0.626 | 11.8   | 98    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.704 | 0.616 | 12.5   | 100   | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.600 | 0.570 | 5.0    | 116   | 0.00     |
| 79 T | Naphthalene               | 0.991 | 1.258 | -26.9  | 112   | -0.02    |
| 80 T | Naphthalene,2-methyl-     | 0.244 | 0.396 | -62.3# | 84    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.601 | 0.662 | -10.1  | 112   | -0.01    |

(#) = Out of Range

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