

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL022820\  
 Data File : VL034732.D  
 Acq On : 28 Feb 2020 9:16  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Mar 02 04:45:20 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Feb 28 01:15:02 2020  
 QLast Update : Fri Feb 28 01:15:02 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   | 92    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.578 | 1.234 | 21.8  | 93    | 0.00     |
| 3    | Chlorodifluoromethane       | 1.079 | 1.114 | -3.2  | 103   | 0.00     |
| 4    | Chloromethane               | 0.604 | 0.620 | -2.6  | 99    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.593 | 0.604 | -1.9  | 99    | 0.00     |
| 6 T  | Bromomethane                | 0.347 | 0.355 | -2.3  | 99    | 0.00     |
| 7    | Chloroethane                | 0.220 | 0.220 | 0.0   | 96    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.395 | 1.330 | 4.7   | 98    | 0.00     |
| 9 T  | Propene                     | 0.451 | 0.499 | -10.6 | 105   | 0.00     |
| 10 T | Heptane                     | 1.161 | 1.290 | -11.1 | 102   | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.382 | 1.352 | 2.2   | 99    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 0.974 | 0.933 | 4.2   | 97    | 0.00     |
| 13   | Ethanol                     | 0.143 | 0.143 | 0.0   | 101   | 0.00     |
| 14 T | Bromoethene                 | 0.406 | 0.413 | -1.7  | 98    | 0.00     |
| 15 T | Acetone                     | 1.140 | 1.088 | 4.6   | 102   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.527 | 0.565 | -7.2  | 102   | 0.00     |
| 17   | tert-Butyl alcohol          | 0.873 | 1.132 | -29.7 | 107   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.437 | 0.436 | 0.2   | 98    | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.679 | 0.854 | -25.8 | 105   | 0.00     |
| 20 T | Methylene Chloride          | 0.424 | 0.382 | 9.9   | 98    | 0.00     |
| 21 T | Allyl Chloride              | 0.754 | 0.789 | -4.6  | 98    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.426 | 0.436 | -2.3  | 97    | 0.00     |
| 23 T | Vinyl Acetate               | 1.549 | 1.812 | -17.0 | 104   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.237 | 1.244 | -0.6  | 99    | 0.00     |
| 25 T | Ethyl Acetate               | 2.017 | 2.178 | -8.0  | 103   | 0.00     |
| 26 T | Hexane                      | 0.930 | 0.950 | -2.2  | 99    | 0.00     |
| 27 T | Carbon Disulfide            | 1.055 | 1.141 | -8.2  | 97    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 1.328 | 1.505 | -13.3 | 104   | 0.00     |
| 29 T | Chloroform                  | 1.481 | 1.480 | 0.1   | 99    | 0.00     |
| 30 T | Cyclohexane                 | 0.721 | 0.797 | -10.5 | 101   | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 0.915 | 1.004 | -9.7  | 100   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 1.383 | 1.457 | -5.4  | 103   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 92    | 0.00     |
| 34 T | 2-Butanone                  | 0.629 | 0.683 | -8.6  | 103   | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.670 | 0.692 | -3.3  | 99    | 0.00     |
| 36 T | Benzene                     | 0.864 | 0.907 | -5.0  | 100   | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.544 | 0.552 | -1.5  | 99    | 0.00     |
| 38 T | Trichloroethene             | 0.333 | 0.330 | 0.9   | 98    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.344 | 0.366 | -6.4  | 100   | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.117 | 0.134 | -14.5 | 99    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.332 | 0.386 | -16.3 | 103   | 0.00     |
| 42 T | Bromodichloromethane        | 0.713 | 0.757 | -6.2  | 100   | 0.00     |
| 43   | Methyl Methacrylate         | 0.363 | 0.421 | -16.0 | 101   | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.509 | 1.565 | -3.7  | 99    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.396 | 0.498 | -25.8 | 100   | 0.00     |

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|      | Compound                  | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|---------------------------|-------|-------|--------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 0.475 | 0.579 | -21.9  | 101   | 0.00     |
| 47 T | 1,1,2-Trichloroethane     | 0.353 | 0.374 | -5.9   | 101   | 0.00     |
| 48 T | Dibromochloromethane      | 0.548 | 0.614 | -12.0  | 100   | 0.00     |
| 49 T | Bromoform                 | 0.475 | 0.539 | -13.5  | 100   | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.892 | 1.008 | -13.0  | 102   | 0.00     |
| 51 T | 2-Hexanone                | 0.702 | 0.834 | -18.8  | 102   | 0.00     |
| 52 T | Tetrachloroethene         | 0.317 | 0.315 | 0.6    | 102   | 0.00     |
| 53 T | Toluene                   | 0.919 | 1.033 | -12.4  | 100   | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.526 | 0.568 | -8.0   | 101   | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0    | 93    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.426 | 0.424 | 0.5    | 103   | 0.00     |
| 57 T | Chlorobenzene             | 0.739 | 0.707 | 4.3    | 99    | 0.00     |
| 58 T | Ethyl Benzene             | 1.210 | 1.294 | -6.9   | 101   | 0.00     |
| 59 T | m/p-Xylene                | 1.055 | 1.058 | -0.3   | 99    | -0.02    |
| 60 T | o-Xylene                  | 1.047 | 1.049 | -0.2   | 100   | 0.00     |
| 61 T | Styrene                   | 0.673 | 0.751 | -11.6  | 99    | 0.00     |
| 62   | Isopropylbenzene          | 1.528 | 1.546 | -1.2   | 102   | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.816 | 0.750 | 8.1    | 101   | 0.00     |
| 64   | n-propylbenzene           | 0.394 | 0.394 | 0.0    | 98    | 0.00     |
| 65   | tert-Butylbenzene         | 1.319 | 1.323 | -0.3   | 101   | 0.00     |
| 66 T | Benzyl Chloride           | 0.492 | 0.617 | -25.4  | 102   | 0.00     |
| 67   | sec-Butylbenzene          | 1.898 | 1.902 | -0.2   | 102   | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.820 | 0.800 | 2.4    | 94    | 0.00     |
| 69   | p-Isopropyltoluene        | 1.562 | 1.575 | -0.8   | 102   | 0.00     |
| 70   | n-Butylbenzene            | 1.701 | 1.703 | -0.1   | 101   | 0.00     |
| 71   | 2-Chlorotoluene           | 1.183 | 1.211 | -2.4   | 101   | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.165 | 1.245 | -6.9   | 102   | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.121 | 1.174 | -4.7   | 102   | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.238 | 1.198 | 3.2    | 102   | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.715 | 0.684 | 4.3    | 101   | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.715 | 0.674 | 5.7    | 98    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.691 | 0.665 | 3.8    | 100   | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.602 | 0.588 | 2.3    | 108   | 0.00     |
| 79 T | Naphthalene               | 1.090 | 1.149 | -5.4   | 101   | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.336 | 0.534 | -58.9# | 173#  | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.650 | 0.651 | -0.2   | 101   | 0.00     |

(#) = Out of Range

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