

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN091819\  
 Data File : VN058187.D  
 Acq On : 19 Sep 2019 00:36  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 19 18:51:19 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 19 09:27:53 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 84    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.411 | 0.378 | 8.0    | 85    | 0.00     |
| 3 P   | Chloromethane               | 0.383 | 0.301 | 21.4   | 83    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.398 | 0.337 | 15.3#  | 83    | 0.00     |
| 5 T   | Bromomethane                | 0.197 | 0.121 | 38.6#  | 58    | 0.00     |
| 6 T   | Chloroethane                | 0.263 | 0.223 | 15.2   | 84    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.561 | 0.499 | 11.1   | 85    | 0.00     |
| 8 T   | Diethyl Ether               | 0.257 | 0.239 | 7.0    | 83    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.404 | 0.373 | 7.7    | 86    | 0.00     |
| 10 T  | Methyl Iodide               | 0.339 | 0.226 | 33.3#  | 59    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.083 | 0.079 | 4.8    | 82    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.342 | 0.312 | 8.8#   | 89    | 0.00     |
| 13 T  | Acrolein                    | 0.012 | 0.018 | -50.0# | 123   | 0.00     |
| 14 T  | Allyl chloride              | 0.661 | 0.601 | 9.1    | 82    | 0.00     |
| 15 T  | Acrylonitrile               | 0.221 | 0.225 | -1.8   | 87    | 0.00     |
| 16 T  | Acetone                     | 0.236 | 0.190 | 19.5   | 74    | 0.00     |
| 17 T  | Carbon Disulfide            | 0.526 | 0.397 | 24.5   | 84    | 0.00     |
| 18 T  | Methyl Acetate              | 0.622 | 0.595 | 4.3    | 88    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.525 | 1.530 | -0.3   | 88    | 0.00     |
| 20 T  | Methylene Chloride          | 0.460 | 0.416 | 9.6    | 88    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.371 | 0.327 | 11.9   | 85    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.680 | 1.652 | 1.7    | 86    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.150 | 1.199 | -4.3   | 85    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.897 | 0.853 | 4.9    | 86    | 0.00     |
| 25 T  | 2-Butanone                  | 0.322 | 0.306 | 5.0    | 81    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.761 | 0.508 | 33.2#  | 60    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.507 | 0.485 | 4.3    | 85    | 0.00     |
| 28 T  | Bromochloromethane          | 0.424 | 0.435 | -2.6   | 85    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.198 | 0.194 | 2.0    | 86    | 0.00     |
| 30 C  | Chloroform                  | 0.965 | 0.935 | 3.1#   | 88    | 0.00     |
| 31 T  | Cyclohexane                 | 0.664 | 0.561 | 15.5   | 84    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.735 | 0.750 | -2.0   | 87    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.696 | 0.721 | -3.6   | 86    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 86    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.304 | 0.308 | -1.3   | 85    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.361 | 0.324 | 10.2   | 85    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.374 | 0.374 | 0.0    | 86    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.362 | 0.342 | 5.5    | 85    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.380 | 0.341 | 10.3   | 86    | 0.00     |
| 40 TM | Benzene                     | 1.101 | 1.050 | 4.6    | 87    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.181 | 0.189 | -4.4   | 86    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.462 | 0.440 | 4.8    | 86    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.699 | 0.741 | -6.0   | 96    | 0.00     |
| 44 TM | Trichloroethene             | 0.270 | 0.261 | 3.3    | 87    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.329 | 0.328 | 0.3#   | 87    | 0.00     |

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 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.200 | 0.196 | 2.0   | 87    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.419 | 0.419 | 0.0   | 85    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.317 | 0.326 | -2.8  | 88    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.005 | 0.005 | 0.0   | 82    | 0.00     |
| 50 S  | Toluene-d8                  | 1.184 | 1.243 | -5.0  | 86    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.371 | 0.416 | -12.1 | 89    | 0.00     |
| 52 CM | Toluene                     | 0.690 | 0.677 | 1.9#  | 87    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.429 | 0.433 | -0.9  | 83    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.474 | 0.461 | 2.7   | 82    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.306 | 0.308 | -0.7  | 87    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.442 | 0.476 | -7.7  | 88    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.527 | 0.521 | 1.1   | 86    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.211 | 0.227 | -7.6  | 84    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.276 | 0.298 | -8.0  | 86    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.295 | 0.310 | -5.1  | 85    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.284 | 0.291 | -2.5  | 89    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.440 | 0.465 | -5.7  | 88    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 85    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.244 | 0.238 | 2.5   | 90    | 0.00     |
| 65 PM | Chlorobenzene               | 0.879 | 0.865 | 1.6   | 88    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.319 | 0.333 | -4.4  | 87    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.507 | 1.546 | -2.6# | 87    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.568 | 0.564 | 0.7   | 86    | 0.00     |
| 69 T  | o-Xylene                    | 0.558 | 0.577 | -3.4  | 89    | 0.00     |
| 70 T  | Styrene                     | 0.962 | 1.018 | -5.8  | 88    | 0.00     |
| 71 P  | Bromoform                   | 0.203 | 0.225 | -10.8 | 88    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 85    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.130 | 3.209 | -2.5  | 87    | 0.00     |
| 74 T  | N-amyl acetate              | 1.309 | 1.416 | -8.2  | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.048 | 1.042 | 0.6   | 87    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.895 | 0.944 | -5.5  | 94    | 0.00     |
| 77 T  | Bromobenzene                | 0.787 | 0.761 | 3.3   | 87    | 0.00     |
| 78 T  | n-propylbenzene             | 3.556 | 3.753 | -5.5  | 88    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.223 | 2.237 | -0.6  | 87    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.647 | 2.766 | -4.5  | 87    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.271 | 0.247 | 8.9   | 76    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.336 | 2.382 | -2.0  | 87    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.360 | 2.450 | -3.8  | 88    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.634 | 2.814 | -6.8  | 88    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.086 | 3.309 | -7.2  | 88    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.744 | 3.001 | -9.4  | 88    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.438 | 1.485 | -3.3  | 89    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.468 | 1.478 | -0.7  | 87    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.601 | 2.735 | -5.2  | 85    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

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|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.426 | 0.461 | -8.2  | 87    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.442 | 1.475 | -2.3  | 87    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.189 | 0.199 | -5.3  | 88    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.922 | 0.966 | -4.8  | 88    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.445 | 0.441 | 0.9   | 86    | 0.00     |
| 95 T | Naphthalene                 | 2.388 | 2.668 | -11.7 | 88    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.871 | 0.905 | -3.9  | 85    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6