

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN020719\  
 Data File : VN053646.D  
 Acq On : 7 Feb 2019 10:32  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 09 00:39:31 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N013019W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 01 09:11:52 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   | 114   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.515 | 0.485 | 5.8   | 98    | 0.00     |
| 3 P   | Chloromethane               | 0.594 | 0.498 | 16.2  | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.576 | 0.498 | 13.5# | 98    | 0.00     |
| 5 T   | Bromomethane                | 0.377 | 0.326 | 13.5  | 101   | 0.00     |
| 6 T   | Chloroethane                | 0.329 | 0.281 | 14.6  | 98    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.781 | 0.692 | 11.4  | 102   | 0.00     |
| 8 T   | Diethyl Ether               | 0.285 | 0.245 | 14.0  | 99    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.483 | 0.441 | 8.7   | 106   | 0.00     |
| 10 T  | Methyl Iodide               | 0.759 | 0.655 | 13.7  | 99    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.030 | 0.026 | 13.3  | 103   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.463 | 0.406 | 12.3# | 100   | 0.00     |
| 13 T  | Acrolein                    | 0.016 | 0.016 | 0.0   | 140   | 0.00     |
| 14 T  | Allyl chloride              | 0.737 | 0.641 | 13.0  | 99    | 0.00     |
| 15 T  | Acrylonitrile               | 0.160 | 0.142 | 11.3  | 101   | 0.00     |
| 16 T  | Acetone                     | 0.129 | 0.132 | -2.3  | 126   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.442 | 1.198 | 16.9  | 96    | 0.00     |
| 18 T  | Methyl Acetate              | 0.381 | 0.334 | 12.3  | 105   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.174 | 1.056 | 10.1  | 101   | 0.00     |
| 20 T  | Methylene Chloride          | 0.540 | 0.457 | 15.4  | 102   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.500 | 0.433 | 13.4  | 100   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.366 | 1.252 | 8.3   | 102   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.945 | 0.853 | 9.7   | 98    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.911 | 0.799 | 12.3  | 102   | 0.00     |
| 25 T  | 2-Butanone                  | 0.183 | 0.169 | 7.7   | 105   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.696 | 0.610 | 12.4  | 102   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.555 | 0.497 | 10.5  | 102   | 0.00     |
| 28 T  | Bromochloromethane          | 0.395 | 0.344 | 12.9  | 100   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.118 | 0.104 | 11.9  | 98    | 0.00     |
| 30 C  | Chloroform                  | 0.903 | 0.795 | 12.0# | 104   | 0.00     |
| 31 T  | Cyclohexane                 | 0.949 | 0.725 | 23.6  | 100   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.752 | 0.670 | 10.9  | 103   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.502 | 0.457 | 9.0   | 106   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 110   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.316 | 0.304 | 3.8   | 107   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.451 | 0.426 | 5.5   | 105   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.252 | 0.238 | 5.6   | 97    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.454 | 0.421 | 7.3   | 104   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.535 | 0.517 | 3.4   | 104   | 0.00     |
| 40 TM | Benzene                     | 1.390 | 1.270 | 8.6   | 102   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.141 | 0.132 | 6.4   | 104   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.413 | 0.374 | 9.4   | 103   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.486 | 0.410 | 15.6  | 97    | 0.00     |
| 44 TM | Trichloroethene             | 0.396 | 0.357 | 9.8   | 104   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.356 | 0.331 | 7.0#  | 102   | 0.00     |

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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) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 46 T  | Dibromomethane              | 0.214 | 0.194 | 9.3  | 103   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.446 | 0.418 | 6.3  | 105   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.232 | 0.200 | 13.8 | 96    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0  | 108   | 0.00     |
| 50 S  | Toluene-d8                  | 1.186 | 1.137 | 4.1  | 107   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.239 | 0.221 | 7.5  | 98    | 0.00     |
| 52 CM | Toluene                     | 0.825 | 0.776 | 5.9# | 103   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.446 | 0.420 | 5.8  | 103   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.529 | 0.496 | 6.2  | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.297 | 0.277 | 6.7  | 102   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.352 | 0.329 | 6.5  | 99    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.508 | 0.467 | 8.1  | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.196 | 0.168 | 14.3 | 88    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.162 | 0.148 | 8.6  | 99    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.335 | 0.320 | 4.5  | 104   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.294 | 0.268 | 8.8  | 102   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.396 | 0.386 | 2.5  | 108   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 109   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.429 | 0.396 | 7.7  | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 1.062 | 0.970 | 8.7  | 103   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.371 | 0.354 | 4.6  | 105   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.745 | 1.641 | 6.0# | 103   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.666 | 0.642 | 3.6  | 104   | 0.00     |
| 69 T  | o-Xylene                    | 0.643 | 0.616 | 4.2  | 103   | 0.00     |
| 70 T  | Styrene                     | 1.043 | 1.016 | 2.6  | 104   | 0.00     |
| 71 P  | Bromoform                   | 0.254 | 0.250 | 1.6  | 105   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 112   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.515 | 3.245 | 7.7  | 105   | 0.00     |
| 74 T  | N-amyl acetate              | 0.845 | 0.776 | 8.2  | 103   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.841 | 0.720 | 14.4 | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.642 | 0.594 | 7.5  | 108   | 0.00     |
| 77 T  | Bromobenzene                | 0.947 | 0.854 | 9.8  | 104   | 0.00     |
| 78 T  | n-propylbenzene             | 4.063 | 3.824 | 5.9  | 106   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.411 | 2.228 | 7.6  | 107   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.915 | 2.824 | 3.1  | 108   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.228 | 0.209 | 8.3  | 102   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.474 | 2.289 | 7.5  | 106   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.576 | 2.431 | 5.6  | 107   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.970 | 2.872 | 3.3  | 107   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.506 | 3.349 | 4.5  | 107   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.066 | 3.009 | 1.9  | 109   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.703 | 1.552 | 8.9  | 106   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.685 | 1.541 | 8.5  | 106   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.654 | 2.616 | 1.4  | 110   | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.506 | 0.494 | 2.4  | 113   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.630 | 1.511 | 7.3  | 106   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.120 | 0.107 | 10.8 | 101   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.935 | 0.910 | 2.7  | 103   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.582 | 0.569 | 2.2  | 111   | 0.00     |
| 95 T | Naphthalene                 | 1.905 | 1.821 | 4.4  | 95    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.868 | 0.819 | 5.6  | 101   | 0.00     |

(#) = Out of Range

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