

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN040419\  
 Data File : VN054942.D  
 Acq On : 4 Apr 2019 12:24  
 Operator : JC/SP  
 Sample : VSTDICV050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 ICVVN040419

Quant Time: Apr 05 03:17:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N040419W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 05 02:23:47 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 110   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.598 | 0.593 | 0.8   | 106   | 0.00     |
| 3 P   | Chloromethane               | 0.790 | 0.778 | 1.5   | 107   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.691 | 0.659 | 4.6#  | 103   | 0.00     |
| 5 T   | Bromomethane                | 0.394 | 0.380 | 3.6   | 108   | 0.00     |
| 6 T   | Chloroethane                | 0.385 | 0.354 | 8.1   | 104   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.839 | 0.789 | 6.0   | 103   | 0.00     |
| 8 T   | Diethyl Ether               | 0.267 | 0.254 | 4.9   | 105   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.444 | 0.406 | 8.6   | 101   | 0.00     |
| 10 T  | Methyl Iodide               | 0.626 | 0.560 | 10.5  | 95    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.034 | 0.035 | -2.9  | 116   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.441 | 0.402 | 8.8#  | 102   | 0.00     |
| 13 T  | Acrolein                    | 0.047 | 0.053 | -12.8 | 113   | 0.00     |
| 14 T  | Allyl chloride              | 0.978 | 0.998 | -2.0  | 107   | 0.00     |
| 15 T  | Acrylonitrile               | 0.204 | 0.204 | 0.0   | 110   | 0.00     |
| 16 T  | Acetone                     | 0.189 | 0.171 | 9.5   | 100   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.403 | 1.393 | 0.7   | 107   | 0.00     |
| 18 T  | Methyl Acetate              | 0.491 | 0.437 | 11.0  | 109   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.430 | 1.419 | 0.8   | 108   | 0.00     |
| 20 T  | Methylene Chloride          | 0.612 | 0.572 | 6.5   | 107   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.550 | 0.529 | 3.8   | 104   | 0.00     |
| 22 T  | Diisopropyl ether           | 2.009 | 1.977 | 1.6   | 105   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.398 | 1.461 | -4.5  | 108   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.096 | 1.054 | 3.8   | 105   | 0.00     |
| 25 T  | 2-Butanone                  | 0.248 | 0.260 | -4.8  | 107   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.768 | 0.764 | 0.5   | 110   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.624 | 0.611 | 2.1   | 106   | 0.00     |
| 28 T  | Bromochloromethane          | 0.513 | 0.490 | 4.5   | 106   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.162 | 0.163 | -0.6  | 108   | 0.00     |
| 30 C  | Chloroform                  | 1.038 | 0.999 | 3.8#  | 105   | 0.00     |
| 31 T  | Cyclohexane                 | 1.251 | 1.004 | 19.7  | 105   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.876 | 0.841 | 4.0   | 106   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.659 | 0.617 | 6.4   | 101   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 109   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.325 | 0.306 | 5.8   | 99    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.495 | 0.478 | 3.4   | 105   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.340 | 0.347 | -2.1  | 108   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.478 | 0.451 | 5.6   | 104   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.545 | 0.549 | -0.7  | 106   | 0.00     |
| 40 TM | Benzene                     | 1.426 | 1.397 | 2.0   | 104   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.194 | 0.192 | 1.0   | 105   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.501 | 0.481 | 4.0   | 103   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.573 | 0.593 | -3.5  | 109   | 0.00     |
| 44 TM | Trichloroethene             | 0.365 | 0.356 | 2.5   | 104   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.397 | 0.392 | 1.3#  | 105   | 0.00     |

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

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.225 | 0.223 | 0.9   | 107   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.473 | 0.470 | 0.6   | 105   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.290 | 0.306 | -5.5  | 109   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0   | 106   | 0.00     |
| 50 S  | Toluene-d8                  | 1.235 | 1.167 | 5.5   | 101   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.320 | 0.332 | -3.8  | 108   | 0.00     |
| 52 CM | Toluene                     | 0.840 | 0.838 | 0.2#  | 103   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.437 | 0.469 | -7.3  | 108   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.532 | 0.559 | -5.1  | 107   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.305 | 0.303 | 0.7   | 104   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.398 | 0.418 | -5.0  | 106   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.532 | 0.532 | 0.0   | 105   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.157 | 0.169 | -7.6  | 109   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.200 | 0.215 | -7.5  | 109   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.319 | 0.328 | -2.8  | 105   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.286 | 0.292 | -2.1  | 105   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.412 | 0.391 | 5.1   | 101   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 108   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.403 | 0.372 | 7.7   | 101   | 0.00     |
| 65 PM | Chlorobenzene               | 1.019 | 0.997 | 2.2   | 103   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.373 | 0.382 | -2.4  | 106   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.838 | 1.827 | 0.6#  | 104   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.672 | 0.676 | -0.6  | 105   | 0.00     |
| 69 T  | o-Xylene                    | 0.655 | 0.655 | 0.0   | 104   | 0.00     |
| 70 T  | Styrene                     | 1.051 | 1.087 | -3.4  | 103   | 0.00     |
| 71 P  | Bromoform                   | 0.224 | 0.233 | -4.0  | 106   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 73 T  | Isopropylbenzene            | 4.224 | 3.988 | 5.6   | 103   | 0.00     |
| 74 T  | N-amyl acetate              | 1.174 | 1.311 | -11.7 | 111   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.037 | 0.959 | 7.5   | 104   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.899 | 0.836 | 7.0   | 103   | 0.00     |
| 77 T  | Bromobenzene                | 1.023 | 0.974 | 4.8   | 103   | 0.00     |
| 78 T  | n-propylbenzene             | 4.653 | 4.506 | 3.2   | 104   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.884 | 2.701 | 6.3   | 103   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.469 | 3.291 | 5.1   | 102   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.216 | 0.238 | -10.2 | 114   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.728 | 2.679 | 1.8   | 104   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.951 | 2.787 | 5.6   | 104   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.356 | 3.266 | 2.7   | 102   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.817 | 3.649 | 4.4   | 104   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.289 | 3.233 | 1.7   | 104   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.702 | 1.660 | 2.5   | 103   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.620 | 1.602 | 1.1   | 103   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.628 | 2.737 | -4.1  | 104   | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.552 | 0.542 | 1.8   | 103   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.671 | 1.620 | 3.1   | 104   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.145 | 0.138 | 4.8   | 104   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.743 | 0.872 | -17.4 | 111   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.559 | 0.518 | 7.3   | 106   | 0.00     |
| 95 T | Naphthalene                 | 1.631 | 1.945 | -19.3 | 116   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.767 | 0.842 | -9.8  | 109   | 0.00     |

(#) = Out of Range

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