

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN031219\  
 Data File : VN054175.D  
 Acq On : 12 Mar 2019 20:27  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 13 08:09:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031219W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 13 03:33:31 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   | 97    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.474 | 0.486 | -2.5  | 93    | 0.00     |
| 3 P   | Chloromethane               | 0.460 | 0.458 | 0.4   | 99    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.526 | 0.517 | 1.7#  | 96    | 0.00     |
| 5 T   | Bromomethane                | 0.364 | 0.345 | 5.2   | 98    | 0.00     |
| 6 T   | Chloroethane                | 0.318 | 0.300 | 5.7   | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.699 | 0.663 | 5.2   | 96    | 0.00     |
| 8 T   | Diethyl Ether               | 0.319 | 0.329 | -3.1  | 96    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.524 | 0.537 | -2.5  | 94    | 0.00     |
| 10 T  | Methyl Iodide               | 0.690 | 0.699 | -1.3  | 89    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.036 | 0.036 | 0.0   | 94    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.519 | 0.530 | -2.1# | 95    | 0.00     |
| 13 T  | Acrolein                    | 0.034 | 0.032 | 5.9   | 86    | 0.00     |
| 14 T  | Allyl chloride              | 0.666 | 0.683 | -2.6  | 94    | 0.00     |
| 15 T  | Acrylonitrile               | 0.150 | 0.154 | -2.7  | 95    | 0.00     |
| 16 T  | Acetone                     | 0.152 | 0.127 | 16.4  | 79    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.302 | 1.318 | -1.2  | 91    | 0.00     |
| 18 T  | Methyl Acetate              | 0.308 | 0.329 | -6.8  | 96    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.288 | 1.337 | -3.8  | 96    | 0.00     |
| 20 T  | Methylene Chloride          | 0.499 | 0.508 | -1.8  | 97    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.498 | 0.507 | -1.8  | 95    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.330 | 1.369 | -2.9  | 95    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.981 | 1.046 | -6.6  | 96    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.854 | 0.872 | -2.1  | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 0.178 | 0.178 | 0.0   | 89    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.751 | 0.731 | 2.7   | 92    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.555 | 0.581 | -4.7  | 97    | 0.00     |
| 28 T  | Bromochloromethane          | 0.349 | 0.352 | -0.9  | 95    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.115 | 0.117 | -1.7  | 95    | 0.00     |
| 30 C  | Chloroform                  | 0.891 | 0.928 | -4.2# | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 0.919 | 0.798 | 13.2  | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.805 | 0.836 | -3.9  | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.531 | 0.532 | -0.2  | 96    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.322 | 0.316 | 1.9   | 96    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.460 | 0.469 | -2.0  | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.265 | 0.270 | -1.9  | 96    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.483 | 0.486 | -0.6  | 95    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.567 | 0.570 | -0.5  | 95    | 0.00     |
| 40 TM | Benzene                     | 1.318 | 1.342 | -1.8  | 96    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.151 | 0.151 | 0.0   | 96    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.445 | 0.454 | -2.0  | 97    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.464 | 0.474 | -2.2  | 95    | 0.00     |
| 44 TM | Trichloroethene             | 0.409 | 0.412 | -0.7  | 95    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.327 | 0.338 | -3.4# | 97    | 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.221 | 0.226 | -2.3  | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.443 | 0.459 | -3.6  | 96    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.236 | 0.248 | -5.1  | 95    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0   | 99    | 0.00     |
| 50 S  | Toluene-d8                  | 1.191 | 1.164 | 2.3   | 96    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.246 | 0.257 | -4.5  | 96    | 0.00     |
| 52 CM | Toluene                     | 0.835 | 0.856 | -2.5# | 97    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.451 | 0.476 | -5.5  | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.516 | 0.540 | -4.7  | 96    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.305 | 0.309 | -1.3  | 96    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.364 | 0.383 | -5.2  | 97    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.499 | 0.512 | -2.6  | 97    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.138 | 0.146 | -5.8  | 98    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.164 | 0.162 | 1.2   | 93    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.343 | 0.360 | -5.0  | 95    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.310 | 0.323 | -4.2  | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.417 | 0.420 | -0.7  | 99    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.483 | 0.473 | 2.1   | 95    | 0.00     |
| 65 PM | Chlorobenzene               | 1.098 | 1.112 | -1.3  | 97    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.399 | 0.409 | -2.5  | 95    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.820 | 1.826 | -0.3# | 96    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.711 | 0.725 | -2.0  | 97    | 0.00     |
| 69 T  | o-Xylene                    | 0.693 | 0.706 | -1.9  | 97    | 0.00     |
| 70 T  | Styrene                     | 1.087 | 1.134 | -4.3  | 97    | 0.00     |
| 71 P  | Bromoform                   | 0.264 | 0.281 | -6.4  | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 73 T  | Isopropylbenzene            | 4.000 | 3.747 | 6.3   | 98    | 0.00     |
| 74 T  | N-amyl acetate              | 0.888 | 0.881 | 0.8   | 97    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.852 | 0.805 | 5.5   | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.735 | 0.679 | 7.6   | 94    | 0.00     |
| 77 T  | Bromobenzene                | 1.059 | 1.006 | 5.0   | 99    | 0.00     |
| 78 T  | n-propylbenzene             | 4.341 | 4.149 | 4.4   | 98    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.610 | 2.464 | 5.6   | 98    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.327 | 3.146 | 5.4   | 98    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.215 | 0.204 | 5.1   | 92    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.606 | 2.498 | 4.1   | 98    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.063 | 2.876 | 6.1   | 98    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.264 | 3.182 | 2.5   | 100   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.972 | 3.756 | 5.4   | 98    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.485 | 3.358 | 3.6   | 99    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.784 | 1.769 | 0.8   | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.752 | 1.726 | 1.5   | 99    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.648 | 2.723 | -2.8  | 100   | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.577 | 0.554 | 4.0  | 95    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.744 | 1.724 | 1.1  | 101   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.132 | 0.130 | 1.5  | 99    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.901 | 0.990 | -9.9 | 101   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.664 | 0.634 | 4.5  | 103   | 0.00     |
| 95 T | Naphthalene                 | 1.854 | 1.951 | -5.2 | 99    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.926 | 0.980 | -5.8 | 100   | 0.00     |

(#) = Out of Range

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