

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN113018\  
 Data File : VN052617.D  
 Acq On : 30 Nov 2018 19:48  
 Operator : MD\SY  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 26 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 01 02:39:38 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112718W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 28 01:11:38 2018  
 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   | 103   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.468 | 0.397 | 15.2  | 90    | 0.00     |
| 3 P   | Chloromethane               | 0.618 | 0.519 | 16.0  | 87    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.635 | 0.544 | 14.3# | 90    | 0.00     |
| 5 T   | Bromomethane                | 0.396 | 0.317 | 19.9  | 91    | 0.00     |
| 6 T   | Chloroethane                | 0.385 | 0.332 | 13.8  | 91    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.780 | 0.699 | 10.4  | 94    | 0.00     |
| 8 T   | Diethyl Ether               | 0.288 | 0.270 | 6.2   | 96    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.487 | 0.439 | 9.9   | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 0.648 | 0.666 | -2.8  | 102   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.027 | 0.029 | -7.4  | 111   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.468 | 0.419 | 10.5# | 93    | 0.00     |
| 13 T  | Acrolein                    | 0.047 | 0.033 | 29.8# | 75    | 0.00     |
| 14 T  | Allyl chloride              | 0.807 | 0.724 | 10.3  | 89    | 0.00     |
| 15 T  | Acrylonitrile               | 0.173 | 0.166 | 4.0   | 97    | 0.00     |
| 16 T  | Acetone                     | 0.144 | 0.114 | 20.8  | 82    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.474 | 1.199 | 18.7  | 86    | 0.00     |
| 18 T  | Methyl Acetate              | 0.412 | 0.404 | 1.9   | 102   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.246 | 1.209 | 3.0   | 100   | 0.00     |
| 20 T  | Methylene Chloride          | 0.562 | 0.487 | 13.3  | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.500 | 0.455 | 9.0   | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.696 | 1.561 | 8.0   | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.056 | 1.012 | 4.2   | 96    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.968 | 0.882 | 8.9   | 93    | 0.00     |
| 25 T  | 2-Butanone                  | 0.204 | 0.186 | 8.8   | 93    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.670 | 0.598 | 10.7  | 92    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.583 | 0.533 | 8.6   | 95    | 0.00     |
| 28 T  | Bromochloromethane          | 0.442 | 0.407 | 7.9   | 94    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.131 | 0.124 | 5.3   | 97    | 0.00     |
| 30 C  | Chloroform                  | 0.966 | 0.869 | 10.0# | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 1.083 | 0.807 | 25.5# | 89    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.765 | 0.714 | 6.7   | 96    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.544 | 0.515 | 5.3   | 96    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.308 | 0.295 | 4.2   | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.472 | 0.423 | 10.4  | 92    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.288 | 0.267 | 7.3   | 97    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.427 | 0.397 | 7.0   | 96    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.574 | 0.505 | 12.0  | 90    | 0.00     |
| 40 TM | Benzene                     | 1.407 | 1.275 | 9.4   | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.158 | 0.153 | 3.2   | 95    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.426 | 0.392 | 8.0   | 94    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.488 | 0.500 | -2.5  | 106   | 0.00     |
| 44 TM | Trichloroethene             | 0.360 | 0.331 | 8.1   | 95    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.374 | 0.342 | 8.6#  | 94    | 0.00     |

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|       | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 46 T  | Dibromomethane              | 0.207 | 0.196 | 5.3  | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.450 | 0.420 | 6.7  | 96    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.254 | 0.247 | 2.8  | 99    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0  | 104   | 0.00     |
| 50 S  | Toluene-d8                  | 1.200 | 1.134 | 5.5  | 95    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.274 | 0.272 | 0.7  | 100   | 0.00     |
| 52 CM | Toluene                     | 0.836 | 0.783 | 6.3# | 94    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.433 | 0.423 | 2.3  | 97    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.519 | 0.497 | 4.2  | 96    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.294 | 0.282 | 4.1  | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.362 | 0.377 | -4.1 | 102   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.519 | 0.487 | 6.2  | 96    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.213 | 0.208 | 2.3  | 98    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.184 | 0.182 | 1.1  | 98    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.319 | 0.312 | 2.2  | 98    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.292 | 0.282 | 3.4  | 99    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.403 | 0.390 | 3.2  | 97    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 102   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.388 | 0.360 | 7.2  | 98    | 0.00     |
| 65 PM | Chlorobenzene               | 1.031 | 0.964 | 6.5  | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.358 | 0.341 | 4.7  | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.805 | 1.698 | 5.9# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.672 | 0.638 | 5.1  | 95    | 0.00     |
| 69 T  | o-Xylene                    | 0.653 | 0.626 | 4.1  | 96    | 0.00     |
| 70 T  | Styrene                     | 1.040 | 1.019 | 2.0  | 96    | 0.00     |
| 71 P  | Bromoform                   | 0.237 | 0.239 | -0.8 | 100   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 102   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.923 | 3.613 | 7.9  | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 0.991 | 1.034 | -4.3 | 105   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.892 | 0.832 | 6.7  | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.771 | 0.706 | 8.4  | 99    | 0.00     |
| 77 T  | Bromobenzene                | 0.970 | 0.899 | 7.3  | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 4.456 | 4.139 | 7.1  | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.654 | 2.413 | 9.1  | 95    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.129 | 2.909 | 7.0  | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.231 | 0.231 | 0.0  | 100   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.675 | 2.454 | 8.3  | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.789 | 2.561 | 8.2  | 96    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.135 | 2.940 | 6.2  | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.799 | 3.478 | 8.4  | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.236 | 3.008 | 7.0  | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.696 | 1.579 | 6.9  | 97    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.671 | 1.558 | 6.8  | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.691 | 2.556 | 5.0  | 93    | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.548 | 0.497 | 9.3  | 94    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.620 | 1.532 | 5.4  | 97    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.128 | 0.128 | 0.0  | 102   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.766 | 0.804 | -5.0 | 98    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.521 | 0.458 | 12.1 | 96    | 0.00     |
| 95 T | Naphthalene                 | 1.582 | 1.738 | -9.9 | 102   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.716 | 0.742 | -3.6 | 100   | 0.00     |

(#) = Out of Range

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