

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF072318\  
 Data File : VF059613.D  
 Acq On : 23 Jul 2018 14:19  
 Operator : VA/AP  
 Sample : VSTDICCC050  
 Misc : 5.00µ/5mL/MSVOA F/SOIL  
 ALS Vial : 84 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 LabSampleId :  
 VSTDICCC050

Quant Time: Jul 24 04:16:16 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F072318S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 23 14:43:39 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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 100   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.627 | 0.603 | 3.8    | 100   | 0.00     |
| 3 P   | Chloromethane               | 0.286 | 0.250 | 12.6   | 100   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.323 | 0.306 | 5.3#   | 100   | 0.00     |
| 5 T   | Bromomethane                | 0.280 | 0.265 | 5.4    | 100   | 0.00     |
| 6 T   | Chloroethane                | 0.197 | 0.187 | 5.1    | 100   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.879 | 0.909 | -3.4   | 100   | -0.05    |
| 8 T   | Diethyl Ether               | 0.126 | 0.130 | -3.2   | 100   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.442 | 0.411 | 7.0    | 100   | 0.00     |
| 10 T  | Methyl Iodide               | 0.743 | 0.708 | 4.7    | 100   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.032 | 0.030 | 6.3    | 100   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.350 | 0.328 | 6.3#   | 100   | 0.00     |
| 13 T  | Acrolein                    | 0.016 | 0.019 | -18.7  | 100   | 0.00     |
| 14 T  | Allyl chloride              | 0.635 | 0.591 | 6.9    | 100   | 0.00     |
| 15 T  | Acrylonitrile               | 0.049 | 0.048 | 2.0    | 100   | 0.00     |
| 16 T  | Acetone                     | 0.135 | 0.128 | 5.2    | 100   | 0.00     |
| 17 T  | Carbon Disulfide            | 0.907 | 0.816 | 10.0   | 100   | 0.04     |
| 18 T  | Methyl Acetate              | 0.224 | 0.192 | 14.3   | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.021 | 0.948 | 7.1    | 100   | 0.00     |
| 20 T  | Methylene Chloride          | 0.397 | 0.310 | 21.9   | 100   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.360 | 0.329 | 8.6    | 100   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.163 | 1.146 | 1.5    | 100   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.585 | 0.592 | -1.2   | 100   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.833 | 0.786 | 5.6    | 100   | 0.00     |
| 25 T  | 2-Butanone                  | 0.139 | 0.135 | 2.9    | 100   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.702 | 0.690 | 1.7    | 100   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.413 | 0.406 | 1.7    | 100   | 0.00     |
| 28 T  | Bromochloromethane          | 0.306 | 0.294 | 3.9    | 100   | 0.00     |
| 29    | Tetrahydrofuran             | 0.056 | 0.054 | 3.6    | 100   | 0.00     |
| 30 C  | Chloroform                  | 1.146 | 1.113 | 2.9#   | 100   | 0.00     |
| 31 T  | Cyclohexane                 | 0.464 | 0.436 | 6.0    | 100   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.038 | 0.995 | 4.1    | 100   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.787 | 0.828 | -5.2   | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 100   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.461 | 0.483 | -4.8   | 100   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.506 | 0.483 | 4.5    | 100   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.204 | 0.208 | -2.0   | 100   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.781 | 0.764 | 2.2    | 100   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.411 | 0.388 | 5.6    | 100   | 0.00     |
| 40 TM | Benzene                     | 0.925 | 0.873 | 5.6    | 100   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.104 | 0.130 | -25.0# | 100   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.625 | 0.611 | 2.2    | 100   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.260 | 0.273 | -5.0   | 100   | 0.00     |
| 44 TM | Trichloroethene             | 0.357 | 0.351 | 1.7    | 100   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.251 | 0.247 | 1.6#   | 100   | 0.00     |

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

|       | Compound                    | AvqRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 46 T  | Dibromomethane              | 0.208 | 0.221 | -6.3 | 100   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.630 | 0.653 | -3.7 | 100   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.195 | 0.194 | 0.5  | 100   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.001 | 0.001 | 0.0  | 100   | 0.00     |
| 50 S  | Toluene-d8                  | 1.155 | 1.203 | -4.2 | 100   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.190 | 0.185 | 2.6  | 100   | 0.00     |
| 52 CM | Toluene                     | 0.705 | 0.657 | 6.8# | 100   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.532 | 0.539 | -1.3 | 100   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.528 | 0.548 | -3.8 | 100   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.241 | 0.246 | -2.1 | 100   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.268 | 0.277 | -3.4 | 100   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.419 | 0.415 | 1.0  | 100   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.031 | 0.030 | 3.2  | 100   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.154 | 0.158 | -2.6 | 100   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.429 | 0.451 | -5.1 | 100   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.276 | 0.294 | -6.5 | 100   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.667 | 0.677 | -1.5 | 100   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 100   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.371 | 0.340 | 8.4  | 100   | 0.00     |
| 65 PM | Chlorobenzene               | 0.922 | 0.895 | 2.9  | 100   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.418 | 0.411 | 1.7  | 100   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.676 | 1.543 | 7.9# | 100   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.570 | 0.528 | 7.4  | 100   | 0.00     |
| 69 T  | o-Xylene                    | 0.619 | 0.601 | 2.9  | 100   | 0.00     |
| 70 T  | Styrene                     | 0.928 | 0.910 | 1.9  | 100   | 0.00     |
| 71 P  | Bromoform                   | 0.259 | 0.259 | 0.0  | 100   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 100   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.176 | 2.946 | 7.2  | 100   | 0.00     |
| 74 T  | N-amyl acetate              | 0.714 | 0.717 | -0.4 | 100   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.533 | 0.521 | 2.3  | 100   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.466 | 0.419 | 10.1 | 100   | 0.00     |
| 77 T  | Bromobenzene                | 0.823 | 0.771 | 6.3  | 100   | 0.00     |
| 78 T  | n-propylbenzene             | 3.806 | 3.469 | 8.9  | 100   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.281 | 2.083 | 8.7  | 100   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.843 | 2.595 | 8.7  | 100   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.185 | 0.183 | 1.1  | 100   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.537 | 2.255 | 11.1 | 100   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.811 | 2.576 | 8.4  | 100   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.892 | 2.695 | 6.8  | 100   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.633 | 3.320 | 8.6  | 100   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.198 | 2.993 | 6.4  | 100   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.578 | 1.412 | 10.5 | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.480 | 1.417 | 4.3  | 100   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.055 | 2.872 | 6.0  | 100   | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.792 | 0.744 | 6.1  | 100   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.471 | 1.309 | 11.0 | 100   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.128 | 0.122 | 4.7  | 100   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.099 | 1.040 | 5.4  | 100   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.765 | 0.719 | 6.0  | 100   | 0.00     |
| 95 T | Naphthalene                 | 1.785 | 1.778 | 0.4  | 100   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.999 | 0.969 | 3.0  | 100   | 0.00     |

(#) = Out of Range

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