

Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF031819\  
 Data File : VF062008.D  
 Acq On : 18 Mar 2019 20:50  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00q/5mL/MSVOA-F/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 19 02:05:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F031619S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 18 07:28:40 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  | 101   | -0.02    |
| 2 T   | Dichlorodifluoromethane     | 0.533 | 0.467 | 12.4 | 90    | 0.00     |
| 3 P   | Chloromethane               | 0.542 | 0.458 | 15.5 | 90    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.524 | 0.478 | 8.8# | 95    | 0.00     |
| 5 T   | Bromomethane                | 0.368 | 0.357 | 3.0  | 93    | 0.01     |
| 6 T   | Chloroethane                | 0.270 | 0.235 | 13.0 | 85    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.694 | 0.626 | 9.8  | 90    | 0.00     |
| 8 T   | Diethyl Ether               | 0.154 | 0.136 | 11.7 | 84    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.489 | 0.427 | 12.7 | 92    | 0.00     |
| 10 T  | Methyl Iodide               | 0.856 | 0.795 | 7.1  | 92    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.022 | 0.019 | 13.6 | 80    | -0.03    |
| 12 CM | 1,1-Dichloroethene          | 0.422 | 0.401 | 5.0# | 99    | 0.00     |
| 13 T  | Acrolein                    | 0.024 | 0.025 | -4.2 | 117   | 0.00     |
| 14 T  | Allyl chloride              | 0.539 | 0.426 | 21.0 | 81    | 0.00     |
| 15 T  | Acrylonitrile               | 0.067 | 0.061 | 9.0  | 91    | 0.00     |
| 16 T  | Acetone                     | 0.081 | 0.061 | 24.7 | 76    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.220 | 1.081 | 11.4 | 90    | 0.00     |
| 18 T  | Methyl Acetate              | 0.165 | 0.151 | 8.5  | 85    | -0.02    |
| 19 T  | Methyl tert-butyl Ether     | 0.765 | 0.637 | 16.7 | 81    | 0.00     |
| 20 T  | Methylene Chloride          | 0.416 | 0.371 | 10.8 | 95    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.440 | 0.383 | 13.0 | 87    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.296 | 1.178 | 9.1  | 88    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.511 | 0.495 | 3.1  | 94    | -0.02    |
| 24 P  | 1,1-Dichloroethane          | 0.753 | 0.662 | 12.1 | 87    | 0.00     |
| 25 T  | 2-Butanone                  | 0.160 | 0.137 | 14.4 | 86    | -0.02    |
| 26 T  | 2,2-Dichloropropane         | 0.355 | 0.284 | 20.0 | 80    | -0.02    |
| 27 T  | cis-1,2-Dichloroethene      | 0.555 | 0.527 | 5.0  | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 0.313 | 0.309 | 1.3  | 96    | 0.00     |
| 29    | Tetrahydrofuran             | 0.070 | 0.059 | 15.7 | 83    | -0.02    |
| 30 C  | Chloroform                  | 0.854 | 0.773 | 9.5# | 93    | -0.02    |
| 31 T  | Cyclohexane                 | 0.738 | 0.664 | 10.0 | 92    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.567 | 0.453 | 20.1 | 80    | -0.03    |
| 33 S  | 1,2-Dichloroethane-d4       | 0.360 | 0.376 | -4.4 | 108   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0  | 100   | -0.02    |
| 35 S  | Dibromofluoromethane        | 0.336 | 0.346 | -3.0 | 109   | -0.02    |
| 36 T  | 1,1-Dichloropropene         | 0.452 | 0.418 | 7.5  | 90    | -0.02    |
| 37 T  | Ethyl Acetate               | 0.203 | 0.177 | 12.8 | 86    | -0.02    |
| 38 T  | Carbon Tetrachloride        | 0.330 | 0.300 | 9.1  | 90    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.530 | 0.472 | 10.9 | 85    | -0.02    |
| 40 TM | Benzene                     | 1.196 | 1.087 | 9.1  | 92    | -0.02    |
| 41 T  | Methacrylonitrile           | 0.108 | 0.095 | 12.0 | 88    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.298 | 0.274 | 8.1  | 91    | -0.02    |
| 43 T  | Isopropyl Acetate           | 0.240 | 0.201 | 16.2 | 81    | -0.02    |
| 44 TM | Trichloroethene             | 0.367 | 0.338 | 7.9  | 92    | -0.02    |
| 45 C  | 1,2-Dichloropropane         | 0.283 | 0.255 | 9.9# | 86    | -0.02    |

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

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.168 | 0.166 | 1.2   | 92    | -0.02    |
| 47 T  | Bromodichloromethane        | 0.397 | 0.371 | 6.5   | 91    | -0.02    |
| 48 T  | Methyl methacrylate         | 0.155 | 0.135 | 12.9  | 87    | -0.02    |
| 49 T  | 1,4-Dioxane                 | 0.001 | 0.001 | 0.0   | 89    | -0.02    |
| 50 S  | Toluene-d8                  | 0.982 | 0.973 | 0.9   | 102   | -0.02    |
| 51 T  | 4-Methyl-2-Pentanone        | 0.170 | 0.153 | 10.0  | 86    | -0.02    |
| 52 CM | Toluene                     | 0.731 | 0.631 | 13.7# | 88    | -0.02    |
| 53 T  | t-1,3-Dichloropropene       | 0.335 | 0.304 | 9.3   | 87    | -0.02    |
| 54 T  | cis-1,3-Dichloropropene     | 0.437 | 0.404 | 7.6   | 89    | -0.03    |
| 55 T  | 1,1,2-Trichloroethane       | 0.204 | 0.197 | 3.4   | 95    | -0.02    |
| 56 T  | Ethyl methacrylate          | 0.232 | 0.224 | 3.4   | 94    | -0.02    |
| 57 T  | 1,3-Dichloropropane         | 0.340 | 0.314 | 7.6   | 86    | -0.02    |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.042 | 0.037 | 11.9  | 86    | -0.02    |
| 59 T  | 2-Hexanone                  | 0.123 | 0.104 | 15.4  | 82    | -0.02    |
| 60 T  | Dibromochloromethane        | 0.283 | 0.269 | 4.9   | 89    | -0.02    |
| 61 T  | 1,2-Dibromoethane           | 0.219 | 0.206 | 5.9   | 91    | -0.03    |
| 62 S  | 4-Bromofluorobenzene        | 0.390 | 0.394 | -1.0  | 111   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.363 | 0.339 | 6.6   | 94    | -0.02    |
| 65 PM | Chlorobenzene               | 0.931 | 0.848 | 8.9   | 94    | -0.02    |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.361 | 0.341 | 5.5   | 95    | -0.02    |
| 67 C  | Ethyl Benzene               | 1.594 | 1.329 | 16.6# | 88    | -0.02    |
| 68 T  | m/p-Xylenes                 | 0.599 | 0.497 | 17.0  | 88    | -0.02    |
| 69 T  | o-Xylene                    | 0.641 | 0.559 | 12.8  | 88    | -0.02    |
| 70 T  | Styrene                     | 0.889 | 0.713 | 19.8  | 83    | -0.02    |
| 71 P  | Bromoform                   | 0.183 | 0.165 | 9.8   | 87    | -0.02    |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.454 | 3.124 | 9.6   | 85    | 0.00     |
| 74 T  | N-amyl acetate              | 0.792 | 0.786 | 0.8   | 94    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.570 | 0.540 | 5.3   | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.399 | 0.377 | 5.5   | 90    | 0.00     |
| 77 T  | Bromobenzene                | 0.800 | 0.734 | 8.3   | 89    | -0.02    |
| 78 T  | n-propylbenzene             | 3.972 | 3.647 | 8.2   | 94    | -0.02    |
| 79 T  | 2-Chlorotoluene             | 2.242 | 2.035 | 9.2   | 91    | -0.02    |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.790 | 2.489 | 10.8  | 88    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.176 | 0.163 | 7.4   | 81    | -0.02    |
| 82 T  | 4-Chlorotoluene             | 2.267 | 2.120 | 6.5   | 90    | -0.02    |
| 83 T  | tert-Butylbenzene           | 2.918 | 2.843 | 2.6   | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.795 | 2.572 | 8.0   | 90    | -0.02    |
| 85 T  | sec-Butylbenzene            | 3.943 | 3.712 | 5.9   | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.290 | 3.027 | 8.0   | 89    | -0.02    |
| 87 T  | 1,3-Dichlorobenzene         | 1.572 | 1.415 | 10.0  | 89    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.513 | 1.403 | 7.3   | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.091 | 2.858 | 7.5   | 89    | -0.02    |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.751 | 0.752 | -0.1 | 93    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.456 | 1.389 | 4.6  | 95    | -0.02    |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.091 | 0.087 | 4.4  | 87    | -0.02    |
| 93 T | 1,2,4-Trichlorobenzene      | 1.014 | 0.928 | 8.5  | 89    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.673 | 0.636 | 5.5  | 89    | 0.00     |
| 95 T | Naphthalene                 | 1.824 | 1.788 | 2.0  | 91    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.933 | 0.890 | 4.6  | 89    | -0.02    |

(#) = Out of Range

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