

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080418\  
 Data File : VF059869.D  
 Acq On : 4 Aug 2018 7:02  
 Operator : VA/AP  
 Sample : VSTDICV050  
 Misc : 5.00µ/5mL/MSVOA F/SOIL  
 ALS Vial : 100 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 ICSVF080418

Quant Time: Aug 06 02:23:17 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F080418S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 04 07:08:36 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    | 120   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.854 | 0.769 | 10.0   | 106   | 0.00     |
| 3 P   | Chloromethane               | 0.395 | 0.429 | -8.6   | 141   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.405 | 0.446 | -10.1# | 137   | 0.00     |
| 5 T   | Bromomethane                | 0.382 | 0.356 | 6.8    | 121   | 0.00     |
| 6 T   | Chloroethane                | 0.254 | 0.271 | -6.7   | 130   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.108 | 1.032 | 6.9    | 108   | 0.00     |
| 8 T   | Diethyl Ether               | 0.176 | 0.178 | -1.1   | 130   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.611 | 0.524 | 14.2   | 109   | 0.00     |
| 10 T  | Methyl Iodide               | 0.939 | 0.971 | -3.4   | 128   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.036 | 0.037 | -2.8   | 129   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.447 | 0.442 | 1.1#   | 122   | 0.00     |
| 13 T  | Acrolein                    | 0.022 | 0.022 | 0.0    | 128   | 0.00     |
| 14 T  | Allyl chloride              | 0.745 | 0.727 | 2.4    | 121   | 0.00     |
| 15 T  | Acrylonitrile               | 0.067 | 0.074 | -10.4  | 130   | 0.00     |
| 16 T  | Acetone                     | 0.166 | 0.156 | 6.0    | 116   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.192 | 1.238 | -3.9   | 130   | 0.00     |
| 18 T  | Methyl Acetate              | 0.281 | 0.292 | -3.9   | 139   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.264 | 1.307 | -3.4   | 129   | 0.00     |
| 20 T  | Methylene Chloride          | 0.487 | 0.436 | 10.5   | 118   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.444 | 0.457 | -2.9   | 130   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.433 | 1.549 | -8.1   | 131   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.693 | 0.814 | -17.5  | 136   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.043 | 0.974 | 6.6    | 115   | 0.00     |
| 25 T  | 2-Butanone                  | 0.181 | 0.202 | -11.6  | 137   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.607 | 0.582 | 4.1    | 114   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.499 | 0.530 | -6.2   | 124   | 0.00     |
| 28 T  | Bromochloromethane          | 0.368 | 0.366 | 0.5    | 124   | 0.00     |
| 29    | Tetrahydrofuran             | 0.067 | 0.079 | -17.9  | 151#  | 0.00     |
| 30 C  | Chloroform                  | 1.411 | 1.323 | 6.2#   | 114   | 0.00     |
| 31 T  | Cyclohexane                 | 0.516 | 0.571 | -10.7  | 129   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.129 | 1.047 | 7.3    | 112   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.901 | 0.876 | 2.8    | 112   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 129   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.497 | 0.487 | 2.0    | 122   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.578 | 0.559 | 3.3    | 117   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.248 | 0.295 | -19.0  | 144   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.828 | 0.805 | 2.8    | 125   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.434 | 0.461 | -6.2   | 126   | 0.00     |
| 40 TM | Benzene                     | 1.105 | 1.063 | 3.8    | 136   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.131 | 0.132 | -0.8   | 124   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.801 | 0.731 | 8.7    | 113   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.256 | 0.312 | -21.9  | 159#  | 0.00     |
| 44 TM | Trichloroethene             | 0.385 | 0.385 | 0.0    | 121   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.265 | 0.285 | -7.5#  | 131   | 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              | 0.268 | 0.260 | 3.0     | 125   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.732 | 0.721 | 1.5     | 122   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.199 | 0.243 | -22.1   | 149   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.001 | 0.002 | -100.0# | 165#  | 0.00     |
| 50 S  | Toluene-d8                  | 1.058 | 1.224 | -15.7   | 141   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.261 | 0.299 | -14.6   | 143   | 0.00     |
| 52 CM | Toluene                     | 0.730 | 0.780 | -6.8#   | 132   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.557 | 0.574 | -3.1    | 131   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.575 | 0.605 | -5.2    | 127   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.263 | 0.267 | -1.5    | 131   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.255 | 0.329 | -29.0#  | 151#  | 0.01     |
| 57 T  | 1,3-Dichloropropane         | 0.452 | 0.489 | -8.2    | 133   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.035 | 0.033 | 5.7     | 109   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.185 | 0.224 | -21.1   | 149   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.493 | 0.488 | 1.0     | 119   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.320 | 0.340 | -6.3    | 131   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.595 | 0.646 | -8.6    | 132   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0     | 133   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.431 | 0.428 | 0.7     | 126   | 0.00     |
| 65 PM | Chlorobenzene               | 1.015 | 1.015 | 0.0     | 130   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.505 | 0.472 | 6.5     | 121   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.768 | 1.817 | -2.8#   | 127   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.611 | 0.633 | -3.6    | 133   | 0.00     |
| 69 T  | o-Xylene                    | 0.647 | 0.711 | -9.9    | 129   | 0.00     |
| 70 T  | Styrene                     | 0.966 | 1.009 | -4.5    | 131   | 0.00     |
| 71 P  | Bromoform                   | 0.309 | 0.299 | 3.2     | 124   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0     | 118   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.114 | 3.427 | -10.1   | 119   | 0.00     |
| 74 T  | N-amyl acetate              | 0.696 | 0.933 | -34.1#  | 152#  | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.585 | 0.634 | -8.4    | 130   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.502 | 0.533 | -6.2    | 128   | 0.00     |
| 77 T  | Bromobenzene                | 0.847 | 0.905 | -6.8    | 127   | 0.00     |
| 78 T  | n-propylbenzene             | 3.678 | 3.811 | -3.6    | 116   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.327 | 2.092 | 10.1    | 102   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.892 | 2.959 | -2.3    | 114   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.180 | 0.222 | -23.3   | 151#  | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.526 | 2.669 | -5.7    | 127   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.815 | 2.980 | -5.9    | 118   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.974 | 3.072 | -3.3    | 118   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.740 | 3.856 | -3.1    | 116   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.144 | 3.365 | -7.0    | 114   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.605 | 1.615 | -0.6    | 121   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.575 | 1.601 | -1.7    | 119   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.996 | 3.063 | -2.2    | 114   | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.867 | 0.832 | 4.0   | 109   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.544 | 1.582 | -2.5  | 119   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.147 | 0.162 | -10.2 | 118   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.172 | 1.242 | -6.0  | 119   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.828 | 0.787 | 5.0   | 108   | 0.00     |
| 95 T | Naphthalene                 | 2.030 | 2.389 | -17.7 | 129   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.158 | 1.230 | -6.2  | 117   | 0.00     |

(#) = Out of Range

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