

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041619\  
 Data File : VF062175.D  
 Acq On : 16 Apr 2019 14:40  
 Operator : FY/SY  
 Sample : VSTDICV050  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 ICVVVF041619

Quant Time: Apr 17 08:12:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F041619S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 17 07:56:48 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    | 95    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.734 | 0.773 | -5.3   | 105   | 0.00     |
| 3 P   | Chloromethane               | 0.789 | 0.872 | -10.5  | 101   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.691 | 0.775 | -12.2# | 104   | 0.00     |
| 5 T   | Bromomethane                | 0.444 | 0.516 | -16.2  | 104   | 0.00     |
| 6 T   | Chloroethane                | 0.327 | 0.370 | -13.1  | 104   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.826 | 0.915 | -10.8  | 104   | 0.00     |
| 8 T   | Diethyl Ether               | 0.167 | 0.184 | -10.2  | 102   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.540 | 0.575 | -6.5   | 100   | 0.00     |
| 10 T  | Methyl Iodide               | 1.004 | 1.081 | -7.7   | 99    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.025 | 0.026 | -4.0   | 100   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.549 | 0.611 | -11.3# | 104   | 0.00     |
| 13 T  | Acrolein                    | 0.020 | 0.017 | 15.0   | 97    | 0.00     |
| 14 T  | Allyl chloride              | 0.826 | 0.992 | -20.1  | 109   | 0.00     |
| 15 T  | Acrylonitrile               | 0.093 | 0.093 | 0.0    | 106   | 0.00     |
| 16 T  | Acetone                     | 0.102 | 0.118 | -15.7  | 113   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.554 | 1.766 | -13.6  | 103   | 0.00     |
| 18 T  | Methyl Acetate              | 0.263 | 0.215 | 18.3   | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.913 | 0.968 | -6.0   | 103   | 0.00     |
| 20 T  | Methylene Chloride          | 0.582 | 0.554 | 4.8    | 103   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.525 | 0.556 | -5.9   | 102   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.536 | 1.641 | -6.8   | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.766 | 0.820 | -7.0   | 99    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.855 | 0.909 | -6.3   | 101   | 0.00     |
| 25 T  | 2-Butanone                  | 0.218 | 0.226 | -3.7   | 98    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.450 | 0.489 | -8.7   | 108   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.697 | 0.719 | -3.2   | 95    | 0.00     |
| 28 T  | Bromochloromethane          | 0.410 | 0.435 | -6.1   | 96    | 0.00     |
| 29    | Tetrahydrofuran             | 0.097 | 0.095 | 2.1    | 96    | 0.00     |
| 30 C  | Chloroform                  | 1.063 | 1.076 | -1.2#  | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 1.105 | 1.203 | -8.9   | 102   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.725 | 0.779 | -7.4   | 99    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.450 | 0.522 | -16.0  | 101   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.394 | 0.425 | -7.9   | 101   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.556 | 0.548 | 1.4    | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.256 | 0.230 | 10.2   | 93    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.478 | 0.472 | 1.3    | 99    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.696 | 0.721 | -3.6   | 103   | 0.00     |
| 40 TM | Benzene                     | 1.467 | 1.464 | 0.2    | 101   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.154 | 0.145 | 5.8    | 103   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.371 | 0.359 | 3.2    | 94    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.296 | 0.276 | 6.8    | 96    | 0.00     |
| 44 TM | Trichloroethene             | 0.393 | 0.389 | 1.0    | 100   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.360 | 0.343 | 4.7#   | 97    | 0.00     |

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|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.217 | 0.205 | 5.5   | 95    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.492 | 0.463 | 5.9   | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.194 | 0.186 | 4.1   | 98    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.001 | 50.0# | 85    | 0.00     |
| 50 S  | Toluene-d8                  | 1.153 | 1.270 | -10.1 | 101   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.228 | 0.204 | 10.5  | 97    | 0.00     |
| 52 CM | Toluene                     | 0.862 | 0.817 | 5.2#  | 97    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.426 | 0.390 | 8.5   | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.542 | 0.517 | 4.6   | 96    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.247 | 0.225 | 8.9   | 92    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.294 | 0.257 | 12.6  | 91    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.406 | 0.396 | 2.5   | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.076 | 0.072 | 5.3   | 107   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.145 | 0.144 | 0.7   | 106   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.340 | 0.316 | 7.1   | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.264 | 0.264 | 0.0   | 101   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.455 | 0.482 | -5.9  | 102   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.408 | 0.411 | -0.7  | 97    | 0.00     |
| 65 PM | Chlorobenzene               | 1.040 | 1.069 | -2.8  | 98    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.429 | 0.426 | 0.7   | 96    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.928 | 1.944 | -0.8# | 96    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.710 | 0.714 | -0.6  | 96    | 0.00     |
| 69 T  | o-Xylene                    | 0.768 | 0.797 | -3.8  | 99    | 0.00     |
| 70 T  | Styrene                     | 1.118 | 1.103 | 1.3   | 95    | 0.00     |
| 71 P  | Bromoform                   | 0.225 | 0.220 | 2.2   | 97    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.308 | 4.514 | -4.8  | 98    | 0.00     |
| 74 T  | N-amyl acetate              | 1.123 | 1.073 | 4.5   | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.767 | 0.776 | -1.2  | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.520 | 0.525 | -1.0  | 97    | 0.00     |
| 77 T  | Bromobenzene                | 0.896 | 0.922 | -2.9  | 98    | 0.00     |
| 78 T  | n-propylbenzene             | 4.896 | 4.908 | -0.2  | 97    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.886 | 2.932 | -1.6  | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.593 | 3.590 | 0.1   | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.260 | 0.270 | -3.8  | 103   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.828 | 2.844 | -0.6  | 95    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.567 | 3.649 | -2.3  | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.487 | 3.513 | -0.7  | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.691 | 4.687 | 0.1   | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.996 | 4.070 | -1.9  | 98    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.639 | 1.694 | -3.4  | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.598 | 1.615 | -1.1  | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 4.000 | 3.938 | 1.5   | 96    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.979 | 0.993 | -1.4 | 96    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.573 | 1.564 | 0.6  | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.138 | 0.137 | 0.7  | 97    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.181 | 1.202 | -1.8 | 100   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.770 | 0.797 | -3.5 | 99    | 0.00     |
| 95 T | Naphthalene                 | 2.064 | 2.092 | -1.4 | 99    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.101 | 1.108 | -0.6 | 96    | 0.00     |

(#) = Out of Range

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