

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY071822\  
 Data File : VY009578.D  
 Acq On : 18 Jul 2022 17:20  
 Operator : KP/MD  
 Sample : VSTDICV050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICVVY071822

Quant Time: Jul 19 04:25:31 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y071822S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 19 04:22:09 2022  
 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   | 100   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.439 | 0.423 | 3.6   | 98    | 0.00     |
| 3 P   | Chloromethane               | 0.650 | 0.607 | 6.6   | 98    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.680 | 0.640 | 5.9#  | 96    | 0.00     |
| 5 T   | Bromomethane                | 0.460 | 0.437 | 5.0   | 100   | 0.00     |
| 6 T   | Chloroethane                | 0.413 | 0.390 | 5.6   | 98    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.806 | 0.792 | 1.7   | 100   | 0.00     |
| 8 T   | Diethyl Ether               | 0.264 | 0.262 | 0.8   | 102   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.471 | 0.466 | 1.1   | 100   | 0.00     |
| 10 T  | Methyl Iodide               | 0.626 | 0.596 | 4.8   | 93    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.056 | 0.042 | 25.0  | 85    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.460 | 0.448 | 2.6#  | 99    | 0.00     |
| 13 T  | Acrolein                    | 0.034 | 0.032 | 5.9   | 99    | 0.00     |
| 14 T  | Allyl chloride              | 0.711 | 0.718 | -1.0  | 101   | 0.00     |
| 15 T  | Acrylonitrile               | 0.130 | 0.132 | -1.5  | 103   | 0.00     |
| 16 T  | Acetone                     | 0.120 | 0.126 | -5.0  | 89    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.429 | 1.410 | 1.3   | 99    | 0.00     |
| 18 T  | Methyl Acetate              | 0.336 | 0.307 | 8.6   | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.212 | 1.241 | -2.4  | 103   | 0.00     |
| 20 T  | Methylene Chloride          | 0.855 | 0.621 | 27.4# | 107   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.520 | 0.518 | 0.4   | 100   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.519 | 1.561 | -2.8  | 103   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.958 | 1.016 | -6.1  | 103   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.877 | 0.879 | -0.2  | 102   | 0.00     |
| 25 T  | 2-Butanone                  | 0.174 | 0.184 | -5.7  | 98    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.786 | 0.759 | 3.4   | 98    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.575 | 0.569 | 1.0   | 101   | 0.00     |
| 28 T  | Bromochloromethane          | 0.376 | 0.392 | -4.3  | 100   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.115 | 0.119 | -3.5  | 104   | 0.00     |
| 30 C  | Chloroform                  | 0.897 | 0.885 | 1.3#  | 102   | 0.00     |
| 31 T  | Cyclohexane                 | 0.834 | 0.799 | 4.2   | 99    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.805 | 0.793 | 1.5   | 100   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.473 | 0.467 | 1.3   | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.315 | 0.314 | 0.3   | 100   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.465 | 0.471 | -1.3  | 101   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.259 | 0.269 | -3.9  | 104   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.487 | 0.486 | 0.2   | 100   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.574 | 0.592 | -3.1  | 101   | 0.00     |
| 40 TM | Benzene                     | 1.362 | 1.346 | 1.2   | 100   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.124 | 0.122 | 1.6   | 101   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.382 | 0.381 | 0.3   | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.475 | 0.490 | -3.2  | 102   | 0.00     |
| 44 TM | Trichloroethene             | 0.387 | 0.384 | 0.8   | 101   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.334 | 0.333 | 0.3#  | 101   | 0.00     |
| 46 T  | Dibromomethane              | 0.194 | 0.192 | 1.0   | 99    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.455 | 0.457 | -0.4  | 102   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.210 | 0.229 | -9.0  | 107   | 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) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0    | 102   | 0.00     |
| 50 S  | Toluene-d8                  | 1.211 | 1.218 | -0.6   | 99    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.246 | 0.259 | -5.3   | 103   | 0.00     |
| 52 CM | Toluene                     | 0.863 | 0.865 | -0.2#  | 100   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.470 | 0.475 | -1.1   | 101   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.534 | 0.540 | -1.1   | 100   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.273 | 0.268 | 1.8    | 100   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.350 | 0.371 | -6.0   | 103   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.454 | 0.453 | 0.2    | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.130 | 0.197 | -51.5# | 99    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.171 | 0.182 | -6.4   | 99    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.331 | 0.330 | 0.3    | 101   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.267 | 0.264 | 1.1    | 101   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.392 | 0.392 | 0.0    | 100   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 100   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.391 | 0.392 | -0.3   | 100   | 0.00     |
| 65 PM | Chlorobenzene               | 1.022 | 1.016 | 0.6    | 100   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.380 | 0.383 | -0.8   | 100   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.797 | 1.835 | -2.1#  | 100   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.715 | 0.731 | -2.2   | 99    | 0.00     |
| 69 T  | o-Xylene                    | 0.669 | 0.690 | -3.1   | 100   | 0.00     |
| 70 T  | Styrene                     | 1.113 | 1.162 | -4.4   | 101   | 0.00     |
| 71 P  | Bromoform                   | 0.240 | 0.246 | -2.5   | 101   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 102   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.462 | 3.476 | -0.4   | 100   | 0.00     |
| 74 T  | N-amyl acetate              | 0.921 | 0.969 | -5.2   | 104   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.693 | 0.672 | 3.0    | 100   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.476 | 0.464 | 2.5    | 100   | 0.00     |
| 77 T  | Bromobenzene                | 0.871 | 0.849 | 2.5    | 100   | 0.00     |
| 78 T  | n-propylbenzene             | 4.183 | 4.240 | -1.4   | 101   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.319 | 2.300 | 0.8    | 100   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.861 | 2.899 | -1.3   | 101   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.242 | 0.237 | 2.1    | 95    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.406 | 2.377 | 1.2    | 100   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.541 | 2.572 | -1.2   | 100   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.861 | 2.876 | -0.5   | 101   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.768 | 3.819 | -1.4   | 100   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.167 | 3.258 | -2.9   | 102   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.722 | 1.699 | 1.3    | 102   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.707 | 1.674 | 1.9    | 102   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.892 | 3.002 | -3.8   | 102   | 0.00     |
| 90 T  | Hexachloroethane            | 0.610 | 0.602 | 1.3    | 101   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.504 | 1.499 | 0.3    | 103   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.105 | 0.108 | -2.9   | 105   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.944 | 1.001 | -6.0   | 109   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.560 | 0.578 | -3.2   | 107   | 0.00     |
| 95 T  | Naphthalene                 | 1.803 | 1.971 | -9.3   | 112   | 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) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.829 | 0.876 | -5.7 | 112   | 0.00     |

(#) = Out of Range

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