

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY101921\  
 Data File : VY006416.D  
 Acq On : 19 Oct 2021 09:34  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 20 03:14:00 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y092821S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 28 17:44:36 2021  
 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   | 70    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.507 | 0.461 | 9.1   | 65    | 0.00     |
| 3 P   | Chloromethane               | 0.591 | 0.610 | -3.2  | 71    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.655 | 0.714 | -9.0# | 77    | 0.00     |
| 5 T   | Bromomethane                | 0.425 | 0.434 | -2.1  | 77    | 0.00     |
| 6 T   | Chloroethane                | 0.385 | 0.396 | -2.9  | 71    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.862 | 0.889 | -3.1  | 73    | 0.00     |
| 8 T   | Diethyl Ether               | 0.285 | 0.282 | 1.1   | 68    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.460 | 0.462 | -0.4  | 71    | 0.00     |
| 10 T  | Methyl Iodide               | 0.502 | 0.472 | 6.0   | 62    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.047 | 0.044 | 6.4   | 64    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.468 | 0.456 | 2.6#  | 69    | 0.00     |
| 13 T  | Acrolein                    | 0.030 | 0.028 | 6.7   | 56    | 0.00     |
| 14 T  | Allyl chloride              | 0.901 | 0.878 | 2.6   | 67    | 0.00     |
| 15 T  | Acrylonitrile               | 0.150 | 0.147 | 2.0   | 67    | 0.00     |
| 16 T  | Acetone                     | 0.149 | 0.168 | -12.8 | 67    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.566 | 1.381 | 11.8  | 62    | 0.00     |
| 18 T  | Methyl Acetate              | 0.504 | 0.483 | 4.2   | 65    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.368 | 1.388 | -1.5  | 68    | 0.00     |
| 20 T  | Methylene Chloride          | 0.582 | 0.567 | 2.6   | 75    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.519 | 0.524 | -1.0  | 71    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.782 | 1.860 | -4.4  | 72    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.068 | 1.069 | -0.1  | 68    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.956 | 0.980 | -2.5  | 72    | 0.00     |
| 25 T  | 2-Butanone                  | 0.208 | 0.211 | -1.4  | 64    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.875 | 0.970 | -10.9 | 78    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.581 | 0.610 | -5.0  | 73    | 0.00     |
| 28 T  | Bromochloromethane          | 0.398 | 0.407 | -2.3  | 73    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.132 | 0.123 | 6.8   | 62    | 0.00     |
| 30 C  | Chloroform                  | 0.954 | 1.026 | -7.5# | 75    | 0.00     |
| 31 T  | Cyclohexane                 | 1.014 | 0.923 | 9.0   | 67    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.881 | 0.974 | -10.6 | 77    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.535 | 0.532 | 0.6   | 72    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 68    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.267 | 0.277 | -3.7  | 73    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.497 | 0.515 | -3.6  | 72    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.290 | 0.282 | 2.8   | 65    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.525 | 0.586 | -11.6 | 76    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.625 | 0.627 | -0.3  | 68    | 0.00     |
| 40 TM | Benzene                     | 1.411 | 1.502 | -6.4  | 72    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.188 | 0.181 | 3.7   | 65    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.455 | 0.496 | -9.0  | 73    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.556 | 0.558 | -0.4  | 66    | 0.00     |
| 44 TM | Trichloroethene             | 0.365 | 0.402 | -10.1 | 75    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.347 | 0.367 | -5.8# | 72    | 0.00     |
| 46 T  | Dibromomethane              | 0.185 | 0.196 | -5.9  | 70    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.476 | 0.529 | -11.1 | 74    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.267 | 0.257 | 3.7   | 62    | 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                 | 0.002 | 0.002 | 0.0   | 66    | 0.00     |
| 50 S  | Toluene-d8                  | 1.118 | 1.119 | -0.1  | 70    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.289 | 0.292 | -1.0  | 65    | 0.00     |
| 52 CM | Toluene                     | 0.875 | 0.959 | -9.6# | 74    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.519 | 0.559 | -7.7  | 72    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.571 | 0.614 | -7.5  | 72    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.260 | 0.278 | -6.9  | 70    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.396 | 0.406 | -2.5  | 66    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.471 | 0.491 | -4.2  | 69    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.194 | 0.193 | 0.5   | 66    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.206 | 0.218 | -5.8  | 66    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.316 | 0.352 | -11.4 | 74    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.246 | 0.254 | -3.3  | 67    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.380 | 0.391 | -2.9  | 72    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 70    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.403 | 0.487 | -20.8 | 86    | 0.00     |
| 65 PM | Chlorobenzene               | 0.991 | 1.069 | -7.9  | 75    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.365 | 0.412 | -12.9 | 78    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.867 | 2.031 | -8.8# | 75    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.709 | 0.778 | -9.7  | 76    | 0.00     |
| 69 T  | o-Xylene                    | 0.669 | 0.745 | -11.4 | 77    | 0.00     |
| 70 T  | Styrene                     | 1.137 | 1.276 | -12.2 | 76    | 0.00     |
| 71 P  | Bromoform                   | 0.227 | 0.243 | -7.0  | 72    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 72    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.582 | 3.849 | -7.5  | 77    | 0.00     |
| 74 T  | N-amyl acetate              | 1.112 | 1.066 | 4.1   | 66    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.647 | 0.583 | 9.9   | 64    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.486 | 0.468 | 3.7   | 71    | 0.00     |
| 77 T  | Bromobenzene                | 0.840 | 0.899 | -7.0  | 77    | 0.00     |
| 78 T  | n-propylbenzene             | 4.409 | 4.684 | -6.2  | 77    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.440 | 2.594 | -6.3  | 77    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.995 | 3.203 | -6.9  | 77    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.247 | 0.241 | 2.4   | 68    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.523 | 2.684 | -6.4  | 77    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.560 | 2.805 | -9.6  | 79    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.957 | 3.211 | -8.6  | 78    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.869 | 4.175 | -7.9  | 77    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.265 | 3.583 | -9.7  | 79    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.664 | 1.824 | -9.6  | 80    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.640 | 1.776 | -8.3  | 79    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.102 | 3.346 | -7.9  | 78    | 0.00     |
| 90 T  | Hexachloroethane            | 0.593 | 0.635 | -7.1  | 77    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.455 | 1.568 | -7.8  | 78    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.123 | 0.118 | 4.1   | 69    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.961 | 1.019 | -6.0  | 76    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.627 | 0.680 | -8.5  | 79    | 0.00     |
| 95 T  | Naphthalene                 | 1.910 | 1.838 | 3.8   | 68    | 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 | 0.852 | 0.883 | -3.6 | 75    | 0.00     |

(#) = Out of Range

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