

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091521\  
 Data File : VY006016.D  
 Acq On : 15 Sep 2021 10:06  
 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: Sep 16 01:21:00 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091421S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 15 05:01:47 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   | 105   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.528 | 0.455 | 13.8  | 96    | 0.00     |
| 3 P   | Chloromethane               | 0.657 | 0.569 | 13.4  | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.742 | 0.662 | 10.8# | 98    | 0.00     |
| 5 T   | Bromomethane                | 0.481 | 0.432 | 10.2  | 101   | 0.00     |
| 6 T   | Chloroethane                | 0.445 | 0.397 | 10.8  | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.967 | 0.868 | 10.2  | 96    | 0.00     |
| 8 T   | Diethyl Ether               | 0.318 | 0.283 | 11.0  | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.483 | 0.439 | 9.1   | 98    | 0.00     |
| 10 T  | Methyl Iodide               | 0.511 | 0.420 | 17.8  | 84    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.142 | 0.068 | 52.1# | 71    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.499 | 0.439 | 12.0# | 95    | 0.00     |
| 13 T  | Acrolein                    | 0.042 | 0.038 | 9.5   | 92    | 0.00     |
| 14 T  | Allyl chloride              | 1.066 | 0.932 | 12.6  | 93    | 0.00     |
| 15 T  | Acrylonitrile               | 0.181 | 0.162 | 10.5  | 88    | 0.00     |
| 16 T  | Acetone                     | 0.190 | 0.223 | -17.4 | 115   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.667 | 1.490 | 10.6  | 95    | 0.00     |
| 18 T  | Methyl Acetate              | 0.480 | 0.412 | 14.2  | 87    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.609 | 1.436 | 10.8  | 90    | 0.00     |
| 20 T  | Methylene Chloride          | 0.707 | 0.519 | 26.6# | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.560 | 0.500 | 10.7  | 94    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.071 | 1.821 | 12.1  | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.307 | 1.170 | 10.5  | 89    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.061 | 0.938 | 11.6  | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 0.263 | 0.256 | 2.7   | 95    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.005 | 0.920 | 8.5   | 99    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.625 | 0.558 | 10.7  | 92    | 0.00     |
| 28 T  | Bromochloromethane          | 0.466 | 0.470 | -0.9  | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.165 | 0.145 | 12.1  | 85    | 0.00     |
| 30 C  | Chloroform                  | 1.064 | 0.949 | 10.8# | 94    | 0.00     |
| 31 T  | Cyclohexane                 | 1.113 | 0.973 | 12.6  | 97    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.999 | 0.902 | 9.7   | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.695 | 0.660 | 5.0   | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.311 | 0.309 | 0.6   | 104   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.540 | 0.497 | 8.0   | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.373 | 0.330 | 11.5  | 88    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.588 | 0.548 | 6.8   | 97    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.669 | 0.624 | 6.7   | 96    | 0.00     |
| 40 TM | Benzene                     | 1.548 | 1.406 | 9.2   | 94    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.218 | 0.182 | 16.5  | 78    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.547 | 0.486 | 11.2  | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.694 | 0.628 | 9.5   | 88    | 0.00     |
| 44 TM | Trichloroethene             | 0.386 | 0.353 | 8.5   | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.383 | 0.339 | 11.5# | 92    | 0.00     |
| 46 T  | Dibromomethane              | 0.207 | 0.188 | 9.2   | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.533 | 0.488 | 8.4   | 93    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.321 | 0.296 | 7.8   | 88    | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
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|       | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0  | 88    | 0.00     |
| 50 S  | Toluene-d8                  | 1.324 | 1.326 | -0.2 | 103   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.370 | 0.334 | 9.7  | 87    | 0.00     |
| 52 CM | Toluene                     | 0.954 | 0.878 | 8.0# | 95    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.586 | 0.536 | 8.5  | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.632 | 0.575 | 9.0  | 93    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.285 | 0.262 | 8.1  | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.455 | 0.417 | 8.4  | 88    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.525 | 0.468 | 10.9 | 89    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.238 | 0.227 | 4.6  | 95    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.256 | 0.254 | 0.8  | 93    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.351 | 0.323 | 8.0  | 92    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.269 | 0.247 | 8.2  | 91    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.449 | 0.446 | 0.7  | 105   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 101   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.409 | 0.378 | 7.6  | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 1.070 | 0.979 | 8.5  | 94    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.399 | 0.363 | 9.0  | 93    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.034 | 1.873 | 7.9# | 94    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.771 | 0.714 | 7.4  | 94    | 0.00     |
| 69 T  | o-Xylene                    | 0.728 | 0.676 | 7.1  | 94    | 0.00     |
| 70 T  | Styrene                     | 1.248 | 1.163 | 6.8  | 93    | 0.00     |
| 71 P  | Bromoform                   | 0.250 | 0.234 | 6.4  | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 101   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.915 | 3.567 | 8.9  | 95    | 0.00     |
| 74 T  | N-amyl acetate              | 1.352 | 1.217 | 10.0 | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.728 | 0.637 | 12.5 | 88    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.533 | 0.451 | 15.4 | 91    | 0.00     |
| 77 T  | Bromobenzene                | 0.914 | 0.807 | 11.7 | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 4.844 | 4.366 | 9.9  | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.634 | 2.399 | 8.9  | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.247 | 2.985 | 8.1  | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.290 | 0.265 | 8.6  | 91    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.723 | 2.455 | 9.8  | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.777 | 2.572 | 7.4  | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.222 | 2.948 | 8.5  | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.158 | 3.846 | 7.5  | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.549 | 3.275 | 7.7  | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.762 | 1.639 | 7.0  | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.767 | 1.613 | 8.7  | 95    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.319 | 3.090 | 6.9  | 95    | 0.00     |
| 90 T  | Hexachloroethane            | 0.639 | 0.581 | 9.1  | 94    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.547 | 1.436 | 7.2  | 95    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.145 | 0.130 | 10.3 | 91    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.004 | 0.953 | 5.1  | 98    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.650 | 0.598 | 8.0  | 97    | 0.00     |
| 95 T  | Naphthalene                 | 1.998 | 1.904 | 4.7  | 93    | 0.00     |

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

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.870 | 0.831 | 4.5  | 97    | 0.00     |

(#) = Out of Range

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