

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082721\  
 Data File : VY005886.D  
 Acq On : 27 Aug 2021 16:26  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 28 03:52:12 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 03 04:52:05 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   | 80    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.411 | 0.347 | 15.6  | 74    | 0.00     |
| 3 P   | Chloromethane               | 0.491 | 0.481 | 2.0   | 80    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.588 | 0.615 | -4.6# | 84    | 0.00     |
| 5 T   | Bromomethane                | 0.387 | 0.433 | -11.9 | 92    | 0.00     |
| 6 T   | Chloroethane                | 0.355 | 0.410 | -15.5 | 88    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.787 | 0.791 | -0.5  | 78    | 0.00     |
| 8 T   | Diethyl Ether               | 0.275 | 0.307 | -11.6 | 97    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.427 | 0.418 | 2.1   | 81    | 0.00     |
| 10 T  | Methyl Iodide               | 0.532 | 0.451 | 15.2  | 69    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.050 | 0.056 | -12.0 | 111   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.431 | 0.414 | 3.9#  | 79    | 0.00     |
| 13 T  | Acrolein                    | 0.030 | 0.024 | 20.0  | 63    | 0.00     |
| 14 T  | Allyl chloride              | 0.755 | 0.759 | -0.5  | 83    | 0.00     |
| 15 T  | Acrylonitrile               | 0.141 | 0.141 | 0.0   | 90    | 0.00     |
| 16 T  | Acetone                     | 0.128 | 0.114 | 10.9  | 76    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.328 | 1.085 | 18.3  | 68    | 0.00     |
| 18 T  | Methyl Acetate              | 0.334 | 0.324 | 3.0   | 94    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.335 | 1.349 | -1.0  | 86    | 0.00     |
| 20 T  | Methylene Chloride          | 0.641 | 0.557 | 13.1  | 88    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.482 | 0.470 | 2.5   | 81    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.557 | 1.665 | -6.9  | 88    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.036 | 1.040 | -0.4  | 85    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.863 | 0.934 | -8.2  | 88    | 0.00     |
| 25 T  | 2-Butanone                  | 0.189 | 0.178 | 5.8   | 85    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.788 | 0.776 | 1.5   | 80    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.548 | 0.576 | -5.1  | 86    | 0.00     |
| 28 T  | Bromochloromethane          | 0.344 | 0.366 | -6.4  | 96    | -0.01    |
| 29 T  | Tetrahydrofuran             | 0.125 | 0.115 | 8.0   | 87    | 0.00     |
| 30 C  | Chloroform                  | 0.881 | 0.937 | -6.4# | 88    | 0.00     |
| 31 T  | Cyclohexane                 | 0.868 | 0.755 | 13.0  | 74    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.810 | 0.817 | -0.9  | 82    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.506 | 0.508 | -0.4  | 82    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 84    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.280 | 0.291 | -3.9  | 84    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.469 | 0.448 | 4.5   | 81    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.284 | 0.265 | 6.7   | 89    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.510 | 0.476 | 6.7   | 79    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.597 | 0.530 | 11.2  | 75    | 0.00     |
| 40 TM | Benzene                     | 1.343 | 1.346 | -0.2  | 86    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.154 | 0.127 | 17.5  | 66    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.436 | 0.421 | 3.4   | 86    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.538 | 0.504 | 6.3   | 88    | 0.00     |
| 44 TM | Trichloroethene             | 0.367 | 0.359 | 2.2   | 83    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.336 | 0.350 | -4.2# | 90    | 0.00     |
| 46 T  | Dibromomethane              | 0.186 | 0.183 | 1.6   | 88    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.465 | 0.478 | -2.8  | 88    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.243 | 0.229 | 5.8   | 87    | 0.00     |

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 VSTDCCC050

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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   | 93    | 0.00     |
| 50 S  | Toluene-d8                  | 1.174 | 1.133 | 3.5   | 78    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.283 | 0.269 | 4.9   | 90    | 0.00     |
| 52 CM | Toluene                     | 0.856 | 0.846 | 1.2#  | 84    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.520 | 0.507 | 2.5   | 85    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.564 | 0.569 | -0.9  | 86    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.269 | 0.271 | -0.7  | 88    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.402 | 0.397 | 1.2   | 89    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.474 | 0.475 | -0.2  | 88    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.192 | 0.229 | -19.3 | 104   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.200 | 0.183 | 8.5   | 86    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.333 | 0.330 | 0.9   | 87    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.255 | 0.248 | 2.7   | 87    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.389 | 0.396 | -1.8  | 84    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 85    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.381 | 0.386 | -1.3  | 88    | 0.00     |
| 65 PM | Chlorobenzene               | 1.006 | 1.013 | -0.7  | 86    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.379 | 0.388 | -2.4  | 88    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.824 | 1.812 | 0.7#  | 84    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.709 | 0.702 | 1.0   | 83    | 0.00     |
| 69 T  | o-Xylene                    | 0.681 | 0.687 | -0.9  | 86    | 0.00     |
| 70 T  | Styrene                     | 1.146 | 1.169 | -2.0  | 87    | 0.00     |
| 71 P  | Bromoform                   | 0.246 | 0.242 | 1.6   | 87    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 88    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.490 | 3.430 | 1.7   | 84    | 0.00     |
| 74 T  | N-amyl acetate              | 1.051 | 0.974 | 7.3   | 85    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.671 | 0.650 | 3.1   | 91    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.518 | 0.558 | -7.7  | 100   | 0.00     |
| 77 T  | Bromobenzene                | 0.857 | 0.839 | 2.1   | 85    | 0.00     |
| 78 T  | n-propylbenzene             | 4.145 | 4.099 | 1.1   | 84    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.328 | 2.317 | 0.5   | 85    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.896 | 2.848 | 1.7   | 84    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.257 | 0.240 | 6.6   | 89    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.408 | 2.389 | 0.8   | 85    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.599 | 2.598 | 0.0   | 85    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.858 | 2.841 | 0.6   | 85    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.749 | 3.744 | 0.1   | 84    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.219 | 3.173 | 1.4   | 84    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.673 | 1.644 | 1.7   | 85    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.660 | 1.610 | 3.0   | 86    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.916 | 2.887 | 1.0   | 84    | 0.00     |
| 90 T  | Hexachloroethane            | 0.579 | 0.588 | -1.6  | 87    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.478 | 1.449 | 2.0   | 87    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.127 | 0.113 | 11.0  | 88    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.015 | 0.962 | 5.2   | 85    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.657 | 0.617 | 6.1   | 81    | 0.00     |
| 95 T  | Naphthalene                 | 2.001 | 1.812 | 9.4   | 85    | 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 | 0.899 | 0.841 | 6.5  | 85    | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6