

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY033022\  
 Data File : VY008102.D  
 Acq On : 30 Mar 2022 10:40  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 31 04:28:50 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y032522S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 26 03:24:51 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   | 96    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.451 | 0.413 | 8.4   | 81    | 0.00     |
| 3 P   | Chloromethane               | 0.549 | 0.460 | 16.2  | 76    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.730 | 0.602 | 17.5# | 74    | 0.01     |
| 5 T   | Bromomethane                | 0.598 | 0.484 | 19.1  | 77    | 0.01     |
| 6 T   | Chloroethane                | 0.480 | 0.404 | 15.8  | 76    | 0.01     |
| 7 T   | Trichlorofluoromethane      | 0.924 | 0.805 | 12.9  | 81    | 0.01     |
| 8 T   | Diethyl Ether               | 0.299 | 0.278 | 7.0   | 84    | 0.01     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.573 | 0.518 | 9.6   | 82    | 0.00     |
| 10 T  | Methyl Iodide               | 0.592 | 0.619 | -4.6  | 83    | 0.01     |
| 11 T  | Tert butyl alcohol          | 0.052 | 0.044 | 15.4  | 75    | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.530 | 0.484 | 8.7#  | 84    | 0.01     |
| 13 T  | Acrolein                    | 0.042 | 0.045 | -7.1  | 104   | 0.02     |
| 14 T  | Allyl chloride              | 0.698 | 0.631 | 9.6   | 80    | 0.00     |
| 15 T  | Acrylonitrile               | 0.142 | 0.130 | 8.5   | 80    | 0.01     |
| 16 T  | Acetone                     | 0.115 | 0.117 | -1.7  | 86    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.503 | 1.365 | 9.2   | 81    | 0.01     |
| 18 T  | Methyl Acetate              | 0.386 | 0.272 | 29.5# | 79    | 0.01     |
| 19 T  | Methyl tert-butyl Ether     | 1.508 | 1.397 | 7.4   | 83    | 0.01     |
| 20 T  | Methylene Chloride          | 0.673 | 0.543 | 19.3  | 83    | 0.01     |
| 21 T  | trans-1,2-Dichloroethene    | 0.614 | 0.577 | 6.0   | 86    | 0.01     |
| 22 T  | Diisopropyl ether           | 1.502 | 1.396 | 7.1   | 82    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.930 | 0.921 | 1.0   | 81    | 0.01     |
| 24 P  | 1,1-Dichloroethane          | 0.994 | 0.921 | 7.3   | 83    | 0.01     |
| 25 T  | 2-Butanone                  | 0.174 | 0.164 | 5.7   | 80    | 0.01     |
| 26 T  | 2,2-Dichloropropane         | 0.941 | 0.890 | 5.4   | 85    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.712 | 0.668 | 6.2   | 86    | 0.00     |
| 28 T  | Bromochloromethane          | 0.322 | 0.245 | 23.9  | 84    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.113 | 0.102 | 9.7   | 77    | 0.00     |
| 30 C  | Chloroform                  | 1.076 | 1.006 | 6.5#  | 84    | 0.00     |
| 31 T  | Cyclohexane                 | 0.938 | 0.776 | 17.3  | 79    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.995 | 0.923 | 7.2   | 83    | 0.01     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.502 | 0.463 | 7.8   | 86    | 0.01     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.313 | 0.304 | 2.9   | 90    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.492 | 0.444 | 9.8   | 81    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.230 | 0.210 | 8.7   | 79    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.537 | 0.500 | 6.9   | 84    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.665 | 0.573 | 13.8  | 78    | 0.00     |
| 40 TM | Benzene                     | 1.409 | 1.303 | 7.5   | 84    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.116 | 0.110 | 5.2   | 92    | 0.01     |
| 42 TM | 1,2-Dichloroethane          | 0.395 | 0.359 | 9.1   | 82    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.452 | 0.409 | 9.5   | 80    | 0.00     |
| 44 TM | Trichloroethene             | 0.407 | 0.380 | 6.6   | 85    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.332 | 0.309 | 6.9#  | 84    | 0.00     |
| 46 T  | Dibromomethane              | 0.218 | 0.200 | 8.3   | 82    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.499 | 0.471 | 5.6   | 85    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.200 | 0.170 | 15.0  | 74    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

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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  | 74    | 0.00     |
| 50 S  | Toluene-d8                  | 1.181 | 1.127 | 4.6  | 88    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.228 | 0.208 | 8.8  | 79    | 0.00     |
| 52 CM | Toluene                     | 0.924 | 0.871 | 5.7# | 83    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.512 | 0.485 | 5.3  | 83    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.579 | 0.546 | 5.7  | 84    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.301 | 0.284 | 5.6  | 83    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.393 | 0.369 | 6.1  | 79    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.493 | 0.455 | 7.7  | 82    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.163 | 0.138 | 15.3 | 83    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.159 | 0.149 | 6.3  | 79    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.367 | 0.352 | 4.1  | 84    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.300 | 0.284 | 5.3  | 82    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.417 | 0.393 | 5.8  | 86    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.384 | 0.352 | 8.3  | 85    | 0.00     |
| 65 PM | Chlorobenzene               | 1.127 | 1.067 | 5.3  | 84    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.416 | 0.403 | 3.1  | 85    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.976 | 1.860 | 5.9# | 83    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.786 | 0.746 | 5.1  | 83    | 0.00     |
| 69 T  | o-Xylene                    | 0.752 | 0.715 | 4.9  | 82    | 0.00     |
| 70 T  | Styrene                     | 1.232 | 1.188 | 3.6  | 82    | 0.00     |
| 71 P  | Bromoform                   | 0.251 | 0.246 | 2.0  | 82    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.127 | 3.808 | 7.7  | 82    | 0.00     |
| 74 T  | N-amyl acetate              | 0.907 | 0.795 | 12.3 | 78    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.802 | 0.740 | 7.7  | 80    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.610 | 0.585 | 4.1  | 89    | 0.00     |
| 77 T  | Bromobenzene                | 0.947 | 0.892 | 5.8  | 82    | 0.00     |
| 78 T  | n-propylbenzene             | 4.868 | 4.419 | 9.2  | 81    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.700 | 2.459 | 8.9  | 81    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.381 | 3.096 | 8.4  | 81    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.273 | 0.253 | 7.3  | 79    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.771 | 2.523 | 8.9  | 81    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.012 | 2.833 | 5.9  | 82    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.292 | 3.032 | 7.9  | 82    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.446 | 4.029 | 9.4  | 80    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.700 | 3.402 | 8.1  | 80    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.877 | 1.762 | 6.1  | 81    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.872 | 1.741 | 7.0  | 81    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.404 | 3.035 | 10.8 | 80    | 0.00     |
| 90 T  | Hexachloroethane            | 0.717 | 0.659 | 8.1  | 80    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.653 | 1.563 | 5.4  | 81    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.128 | 0.112 | 12.5 | 77    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.990 | 0.910 | 8.1  | 82    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.524 | 0.463 | 11.6 | 82    | 0.00     |
| 95 T  | Naphthalene                 | 2.188 | 2.062 | 5.8  | 82    | 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 | 0.856 | 0.792 | 7.5  | 83    | 0.00     |

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