

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY033122\  
 Data File : VY008127.D  
 Acq On : 31 Mar 2022 09:37  
 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 14:21:26 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   | 86    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.451 | 0.391 | 13.3  | 69    | 0.00     |
| 3 P   | Chloromethane               | 0.549 | 0.509 | 7.3   | 75    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.730 | 0.664 | 9.0#  | 73    | 0.00     |
| 5 T   | Bromomethane                | 0.598 | 0.534 | 10.7  | 77    | 0.01     |
| 6 T   | Chloroethane                | 0.480 | 0.450 | 6.2   | 77    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.924 | 0.827 | 10.5  | 75    | 0.00     |
| 8 T   | Diethyl Ether               | 0.299 | 0.283 | 5.4   | 77    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.573 | 0.529 | 7.7   | 75    | 0.00     |
| 10 T  | Methyl Iodide               | 0.592 | 0.598 | -1.0  | 72    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.052 | 0.047 | 9.6   | 71    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.530 | 0.494 | 6.8#  | 77    | 0.00     |
| 13 T  | Acrolein                    | 0.042 | 0.044 | -4.8  | 91    | 0.01     |
| 14 T  | Allyl chloride              | 0.698 | 0.670 | 4.0   | 77    | 0.00     |
| 15 T  | Acrylonitrile               | 0.142 | 0.139 | 2.1   | 77    | 0.01     |
| 16 T  | Acetone                     | 0.115 | 0.124 | -7.8  | 82    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.503 | 1.390 | 7.5   | 74    | 0.00     |
| 18 T  | Methyl Acetate              | 0.386 | 0.286 | 25.9# | 74    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.508 | 1.456 | 3.4   | 78    | 0.00     |
| 20 T  | Methylene Chloride          | 0.673 | 0.567 | 15.8  | 78    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.614 | 0.585 | 4.7   | 78    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.502 | 1.473 | 1.9   | 78    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.930 | 0.968 | -4.1  | 76    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.994 | 0.962 | 3.2   | 78    | 0.00     |
| 25 T  | 2-Butanone                  | 0.174 | 0.174 | 0.0   | 76    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.941 | 0.924 | 1.8   | 79    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.712 | 0.692 | 2.8   | 80    | 0.00     |
| 28 T  | Bromochloromethane          | 0.322 | 0.258 | 19.9  | 79    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.113 | 0.108 | 4.4   | 74    | 0.00     |
| 30 C  | Chloroform                  | 1.076 | 1.057 | 1.8#  | 80    | 0.00     |
| 31 T  | Cyclohexane                 | 0.938 | 0.812 | 13.4  | 74    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.995 | 0.971 | 2.4   | 78    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.502 | 0.477 | 5.0   | 79    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 86    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.313 | 0.312 | 0.3   | 84    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.492 | 0.469 | 4.7   | 77    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.230 | 0.224 | 2.6   | 76    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.537 | 0.514 | 4.3   | 77    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.665 | 0.602 | 9.5   | 74    | 0.00     |
| 40 TM | Benzene                     | 1.409 | 1.353 | 4.0   | 78    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.116 | 0.133 | -14.7 | 100   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.395 | 0.378 | 4.3   | 78    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.452 | 0.426 | 5.8   | 75    | 0.00     |
| 44 TM | Trichloroethene             | 0.407 | 0.394 | 3.2   | 80    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.332 | 0.320 | 3.6#  | 78    | 0.00     |
| 46 T  | Dibromomethane              | 0.218 | 0.211 | 3.2   | 78    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.499 | 0.487 | 2.4   | 79    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.200 | 0.184 | 8.0   | 73    | 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  | 73    | 0.00     |
| 50 S  | Toluene-d8                  | 1.181 | 1.154 | 2.3  | 81    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.228 | 0.218 | 4.4  | 74    | 0.00     |
| 52 CM | Toluene                     | 0.924 | 0.910 | 1.5# | 78    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.512 | 0.501 | 2.1  | 78    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.579 | 0.566 | 2.2  | 78    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.301 | 0.297 | 1.3  | 78    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.393 | 0.389 | 1.0  | 75    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.493 | 0.481 | 2.4  | 78    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.163 | 0.142 | 12.9 | 77    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.159 | 0.156 | 1.9  | 74    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.367 | 0.366 | 0.3  | 79    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.300 | 0.291 | 3.0  | 76    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.417 | 0.397 | 4.8  | 78    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 86    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.384 | 0.358 | 6.8  | 78    | 0.00     |
| 65 PM | Chlorobenzene               | 1.127 | 1.093 | 3.0  | 78    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.416 | 0.409 | 1.7  | 78    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.976 | 1.934 | 2.1# | 78    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.786 | 0.775 | 1.4  | 78    | 0.00     |
| 69 T  | o-Xylene                    | 0.752 | 0.734 | 2.4  | 77    | 0.00     |
| 70 T  | Styrene                     | 1.232 | 1.233 | -0.1 | 77    | 0.00     |
| 71 P  | Bromoform                   | 0.251 | 0.252 | -0.4 | 76    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 81    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.127 | 4.077 | 1.2  | 78    | 0.00     |
| 74 T  | N-amyl acetate              | 0.907 | 0.847 | 6.6  | 73    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.802 | 0.784 | 2.2  | 75    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.610 | 0.526 | 13.8 | 71    | 0.00     |
| 77 T  | Bromobenzene                | 0.947 | 0.943 | 0.4  | 77    | 0.00     |
| 78 T  | n-propylbenzene             | 4.868 | 4.741 | 2.6  | 77    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.700 | 2.626 | 2.7  | 77    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.381 | 3.320 | 1.8  | 77    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.273 | 0.275 | -0.7 | 76    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.771 | 2.675 | 3.5  | 76    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.012 | 3.003 | 0.3  | 77    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.292 | 3.230 | 1.9  | 77    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.446 | 4.357 | 2.0  | 77    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.700 | 3.655 | 1.2  | 76    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.877 | 1.874 | 0.2  | 77    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.872 | 1.842 | 1.6  | 76    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.404 | 3.244 | 4.7  | 75    | 0.00     |
| 90 T  | Hexachloroethane            | 0.717 | 0.696 | 2.9  | 75    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.653 | 1.646 | 0.4  | 76    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.128 | 0.117 | 8.6  | 72    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.990 | 0.894 | 9.7  | 71    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.524 | 0.462 | 11.8 | 73    | 0.00     |
| 95 T  | Naphthalene                 | 2.188 | 1.945 | 11.1 | 68    | 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 | 0.856 | 0.757 | 11.6 | 70    | 0.00     |

(#) = Out of Range

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