

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY042924\  
 Data File : VY018067.D  
 Acq On : 29 Apr 2024 14:32  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 30 00:58:14 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y041624S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 17 06:24:42 2024  
 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    | 71    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.397 | 0.394 | 0.8    | 73    | 0.00     |
| 3 P   | Chloromethane               | 0.657 | 0.681 | -3.7   | 78    | -0.01    |
| 4 C   | Vinyl Chloride              | 0.741 | 0.774 | -4.5#  | 74    | 0.00     |
| 5 T   | Bromomethane                | 0.493 | 0.670 | -35.9# | 96    | 0.00     |
| 6 T   | Chloroethane                | 0.468 | 0.502 | -7.3   | 78    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.835 | 0.833 | 0.2    | 71    | -0.01    |
| 8 T   | Diethyl Ether               | 0.264 | 0.299 | -13.3  | 80    | -0.01    |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.520 | 0.542 | -4.2   | 74    | -0.01    |
| 10 T  | Methyl Iodide               | 0.692 | 0.773 | -11.7  | 77    | -0.01    |
| 11 T  | Tert butyl alcohol          | 0.034 | 0.030 | 11.8   | 68    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.505 | 0.559 | -10.7# | 78    | -0.02    |
| 13 T  | Acrolein                    | 0.034 | 0.040 | -17.6  | 87    | -0.01    |
| 14 T  | Allyl chloride              | 0.653 | 0.632 | 3.2    | 67    | -0.01    |
| 15 T  | Acrylonitrile               | 0.107 | 0.122 | -14.0  | 79    | -0.02    |
| 16 T  | Acetone                     | 0.085 | 0.073 | 14.1   | 59    | -0.01    |
| 17 T  | Carbon Disulfide            | 1.606 | 1.723 | -7.3   | 76    | -0.01    |
| 18 T  | Methyl Acetate              | 0.225 | 0.238 | -5.8   | 80    | -0.02    |
| 19 T  | Methyl tert-butyl Ether     | 1.100 | 1.250 | -13.6  | 78    | -0.02    |
| 20 T  | Methylene Chloride          | 0.579 | 0.643 | -11.1  | 82    | -0.02    |
| 21 T  | trans-1,2-Dichloroethene    | 0.553 | 0.626 | -13.2  | 79    | -0.02    |
| 22 T  | Diisopropyl ether           | 1.432 | 1.518 | -6.0   | 72    | -0.01    |
| 23 T  | Vinyl Acetate               | 0.849 | 0.892 | -5.1   | 70    | -0.02    |
| 24 P  | 1,1-Dichloroethane          | 0.935 | 1.003 | -7.3   | 75    | -0.02    |
| 25 T  | 2-Butanone                  | 0.126 | 0.125 | 0.8    | 67    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.750 | 0.733 | 2.3    | 68    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.631 | 0.724 | -14.7  | 79    | -0.01    |
| 28 T  | Bromochloromethane          | 0.368 | 0.320 | 13.0   | 61    | -0.02    |
| 29 T  | Tetrahydrofuran             | 0.080 | 0.086 | -7.5   | 74    | -0.01    |
| 30 C  | Chloroform                  | 0.956 | 1.050 | -9.8#  | 78    | -0.01    |
| 31 T  | Cyclohexane                 | 0.827 | 0.776 | 6.2    | 67    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.796 | 0.829 | -4.1   | 72    | -0.01    |
| 33 S  | 1,2-Dichloroethane-d4       | 0.433 | 0.443 | -2.3   | 70    | -0.01    |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 74    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.308 | 0.344 | -11.7  | 77    | -0.01    |
| 36 T  | 1,1-Dichloropropene         | 0.449 | 0.453 | -0.9   | 71    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.185 | 0.193 | -4.3   | 75    | -0.01    |
| 38 T  | Carbon Tetrachloride        | 0.453 | 0.453 | 0.0    | 71    | -0.01    |
| 39 T  | Methylcyclohexane           | 0.585 | 0.574 | 1.9    | 67    | 0.00     |
| 40 TM | Benzene                     | 1.405 | 1.542 | -9.8   | 78    | -0.01    |
| 41 T  | Methacrylonitrile           | 0.116 | 0.155 | -33.6# | 94    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.322 | 0.328 | -1.9   | 73    | -0.01    |
| 43 T  | Isopropyl Acetate           | 0.344 | 0.345 | -0.3   | 71    | 0.00     |
| 44 TM | Trichloroethene             | 0.357 | 0.390 | -9.2   | 78    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.323 | 0.347 | -7.4#  | 76    | 0.00     |
| 46 T  | Dibromomethane              | 0.179 | 0.200 | -11.7  | 80    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.449 | 0.491 | -9.4   | 77    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.158 | 0.160 | -1.3   | 70    | 0.00     |

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 ALS Vial : 3 Sample Multiplier: 1

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 MSVOA\_Y  
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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    | 77    | 0.00     |
| 50 S  | Toluene-d8                  | 1.170 | 1.269 | -8.5   | 73    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.182 | 0.193 | -6.0   | 73    | 0.00     |
| 52 CM | Toluene                     | 0.862 | 0.954 | -10.7# | 77    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.410 | 0.439 | -7.1   | 75    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.503 | 0.547 | -8.7   | 76    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.243 | 0.279 | -14.8  | 82    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.317 | 0.360 | -13.6  | 77    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.412 | 0.459 | -11.4  | 79    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.165 | 0.160 | 3.0    | 69    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.125 | 0.130 | -4.0   | 71    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.313 | 0.345 | -10.2  | 78    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.227 | 0.257 | -13.2  | 80    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.363 | 0.388 | -6.9   | 72    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 75    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.358 | 0.375 | -4.7   | 75    | 0.00     |
| 65 PM | Chlorobenzene               | 1.096 | 1.180 | -7.7   | 78    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.361 | 0.396 | -9.7   | 79    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.845 | 1.981 | -7.4#  | 75    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.709 | 0.770 | -8.6   | 76    | 0.00     |
| 69 T  | o-Xylene                    | 0.662 | 0.724 | -9.4   | 76    | 0.00     |
| 70 T  | Styrene                     | 1.119 | 1.270 | -13.5  | 78    | 0.00     |
| 71 P  | Bromoform                   | 0.209 | 0.226 | -8.1   | 77    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 74    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.643 | 3.892 | -6.8   | 74    | 0.00     |
| 74 T  | N-amyl acetate              | 0.735 | 0.766 | -4.2   | 72    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.679 | 0.766 | -12.8  | 81    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.469 | 0.537 | -14.5  | 83    | 0.00     |
| 77 T  | Bromobenzene                | 0.882 | 0.963 | -9.2   | 76    | 0.00     |
| 78 T  | n-propylbenzene             | 4.420 | 4.715 | -6.7   | 73    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.474 | 2.628 | -6.2   | 75    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.889 | 3.099 | -7.3   | 73    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.228 | 0.243 | -6.6   | 75    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.563 | 2.673 | -4.3   | 73    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.639 | 2.701 | -2.3   | 70    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.877 | 3.089 | -7.4   | 74    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.963 | 4.082 | -3.0   | 71    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.257 | 3.362 | -3.2   | 70    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.749 | 1.833 | -4.8   | 74    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.717 | 1.793 | -4.4   | 75    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.064 | 3.041 | 0.8    | 67    | 0.00     |
| 90 T  | Hexachloroethane            | 0.668 | 0.695 | -4.0   | 74    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.509 | 1.601 | -6.1   | 75    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.087 | 0.090 | -3.4   | 74    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.879 | 0.863 | 1.8    | 69    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.521 | 0.461 | 11.5   | 63    | 0.00     |
| 95 T  | Naphthalene                 | 1.448 | 1.575 | -8.8   | 74    | 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 | 0.737 | 0.755 | -2.4 | 72    | 0.00     |

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