

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110222\  
 Data File : VY011249.D  
 Acq On : 02 Nov 2022 09:42  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 02 13:25:59 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110122S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 01 11:56:18 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   | 103   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.456 | 0.381 | 16.4  | 104   | 0.00     |
| 3 P   | Chloromethane               | 0.554 | 0.529 | 4.5   | 106   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.619 | 0.591 | 4.5#  | 104   | 0.00     |
| 5 T   | Bromomethane                | 0.413 | 0.407 | 1.5   | 108   | 0.00     |
| 6 T   | Chloroethane                | 0.398 | 0.388 | 2.5   | 104   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.915 | 0.891 | 2.6   | 104   | 0.00     |
| 8 T   | Diethyl Ether               | 0.328 | 0.323 | 1.5   | 101   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.550 | 0.547 | 0.5   | 103   | 0.00     |
| 10 T  | Methyl Iodide               | 0.708 | 0.717 | -1.3  | 100   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.081 | 0.052 | 35.8# | 95    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.544 | 0.549 | -0.9# | 105   | 0.00     |
| 13 T  | Acrolein                    | 0.033 | 0.039 | -18.2 | 149   | 0.00     |
| 14 T  | Allyl chloride              | 0.824 | 0.822 | 0.2   | 101   | 0.00     |
| 15 T  | Acrylonitrile               | 0.165 | 0.165 | 0.0   | 101   | 0.00     |
| 16 T  | Acetone                     | 0.161 | 0.175 | -8.7  | 92    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.786 | 1.745 | 2.3   | 102   | 0.00     |
| 18 T  | Methyl Acetate              | 0.427 | 0.391 | 8.4   | 99    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.445 | 1.480 | -2.4  | 101   | 0.00     |
| 20 T  | Methylene Chloride          | 0.807 | 0.639 | 20.8  | 98    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.619 | 0.632 | -2.1  | 104   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.708 | 1.752 | -2.6  | 102   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.043 | 1.087 | -4.2  | 100   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.070 | 1.075 | -0.5  | 103   | 0.00     |
| 25 T  | 2-Butanone                  | 0.227 | 0.224 | 1.3   | 93    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.978 | 0.950 | 2.9   | 103   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.682 | 0.704 | -3.2  | 105   | 0.00     |
| 28 T  | Bromochloromethane          | 0.411 | 0.420 | -2.2  | 100   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.132 | 0.133 | -0.8  | 98    | 0.00     |
| 30 C  | Chloroform                  | 1.080 | 1.099 | -1.8# | 105   | 0.00     |
| 31 T  | Cyclohexane                 | 0.991 | 0.953 | 3.8   | 100   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.958 | 0.971 | -1.4  | 104   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.535 | 0.497 | 7.1   | 99    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.321 | 0.321 | 0.0   | 102   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.525 | 0.543 | -3.4  | 104   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.283 | 0.279 | 1.4   | 100   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.544 | 0.563 | -3.5  | 104   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.638 | 0.670 | -5.0  | 102   | 0.00     |
| 40 TM | Benzene                     | 1.542 | 1.583 | -2.7  | 103   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.154 | 0.161 | -4.5  | 99    | 0.01     |
| 42 TM | 1,2-Dichloroethane          | 0.419 | 0.428 | -2.1  | 102   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.498 | 0.497 | 0.2   | 97    | 0.00     |
| 44 TM | Trichloroethene             | 0.413 | 0.428 | -3.6  | 105   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.381 | 0.394 | -3.4# | 103   | 0.00     |
| 46 T  | Dibromomethane              | 0.215 | 0.223 | -3.7  | 103   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.511 | 0.533 | -4.3  | 104   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.229 | 0.238 | -3.9  | 99    | 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   | 101   | 0.00     |
| 50 S  | Toluene-d8                  | 1.247 | 1.220 | 2.2   | 101   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.271 | 0.281 | -3.7  | 99    | 0.00     |
| 52 CM | Toluene                     | 0.956 | 1.008 | -5.4# | 103   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.538 | 0.558 | -3.7  | 101   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.615 | 0.643 | -4.6  | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.309 | 0.318 | -2.9  | 102   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.408 | 0.440 | -7.8  | 101   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.528 | 0.545 | -3.2  | 102   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.191 | 0.199 | -4.2  | 101   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.193 | 0.208 | -7.8  | 95    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.367 | 0.382 | -4.1  | 103   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.293 | 0.305 | -4.1  | 102   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.433 | 0.439 | -1.4  | 102   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.425 | 0.450 | -5.9  | 103   | 0.00     |
| 65 PM | Chlorobenzene               | 1.103 | 1.166 | -5.7  | 104   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.406 | 0.428 | -5.4  | 104   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.957 | 2.095 | -7.1# | 104   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.760 | 0.818 | -7.6  | 104   | 0.00     |
| 69 T  | o-Xylene                    | 0.712 | 0.773 | -8.6  | 104   | 0.00     |
| 70 T  | Styrene                     | 1.207 | 1.323 | -9.6  | 103   | 0.00     |
| 71 P  | Bromoform                   | 0.252 | 0.266 | -5.6  | 103   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.738 | 3.977 | -6.4  | 103   | 0.00     |
| 74 T  | N-amyl acetate              | 0.938 | 0.968 | -3.2  | 97    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.774 | 0.785 | -1.4  | 102   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.609 | 0.594 | 2.5   | 107   | 0.00     |
| 77 T  | Bromobenzene                | 0.879 | 0.930 | -5.8  | 105   | 0.00     |
| 78 T  | n-propylbenzene             | 4.574 | 4.830 | -5.6  | 102   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.621 | 2.738 | -4.5  | 103   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.163 | 3.382 | -6.9  | 103   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.284 | 0.287 | -1.1  | 98    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.701 | 2.850 | -5.5  | 104   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.726 | 2.884 | -5.8  | 102   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.129 | 3.353 | -7.2  | 103   | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.041 | 4.317 | -6.8  | 103   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.368 | 3.614 | -7.3  | 103   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.763 | 1.841 | -4.4  | 103   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.768 | 1.842 | -4.2  | 103   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.145 | 3.343 | -6.3  | 101   | 0.00     |
| 90 T  | Hexachloroethane            | 0.674 | 0.692 | -2.7  | 102   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.575 | 1.655 | -5.1  | 103   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.133 | 0.132 | 0.8   | 99    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.952 | 1.017 | -6.8  | 101   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.554 | 0.576 | -4.0  | 101   | 0.00     |
| 95 T  | Naphthalene                 | 1.965 | 2.147 | -9.3  | 99    | 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 | 0.837 | 0.889 | -6.2 | 100   | 0.00     |

(#) = Out of Range

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