

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122023\  
 Data File : VY016734.D  
 Acq On : 20 Dec 2023 19:40  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICSVY122023

Quant Time: Dec 21 01:36:46 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 21 01:19:29 2023  
 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     | 0.427 | 0.347 | 18.7  | 95    | 0.00     |
| 3 P   | Chloromethane               | 0.657 | 0.562 | 14.5  | 99    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.742 | 0.669 | 9.8#  | 99    | 0.00     |
| 5 T   | Bromomethane                | 0.528 | 0.480 | 9.1   | 106   | 0.00     |
| 6 T   | Chloroethane                | 0.503 | 0.455 | 9.5   | 102   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.864 | 0.753 | 12.8  | 97    | 0.00     |
| 8 T   | Diethyl Ether               | 0.276 | 0.253 | 8.3   | 98    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.530 | 0.460 | 13.2  | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 0.552 | 0.527 | 4.5   | 99    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.037 | 0.037 | 0.0   | 108   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.472 | 0.434 | 8.1#  | 99    | 0.00     |
| 13 T  | Acrolein                    | 0.029 | 0.030 | -3.4  | 94    | 0.00     |
| 14 T  | Allyl chloride              | 0.723 | 0.696 | 3.7   | 101   | 0.00     |
| 15 T  | Acrylonitrile               | 0.117 | 0.117 | 0.0   | 101   | 0.00     |
| 16 T  | Acetone                     | 0.123 | 0.104 | 15.4  | 101   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.284 | 1.215 | 5.4   | 98    | 0.00     |
| 18 T  | Methyl Acetate              | 0.482 | 0.529 | -9.8  | 101   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.215 | 1.181 | 2.8   | 102   | 0.00     |
| 20 T  | Methylene Chloride          | 0.723 | 0.580 | 19.8  | 106   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.538 | 0.508 | 5.6   | 100   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.636 | 1.582 | 3.3   | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.774 | 0.747 | 3.5   | 102   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.983 | 0.920 | 6.4   | 100   | 0.00     |
| 25 T  | 2-Butanone                  | 0.170 | 0.155 | 8.8   | 103   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.857 | 0.783 | 8.6   | 100   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.620 | 0.592 | 4.5   | 101   | 0.00     |
| 28 T  | Bromochloromethane          | 0.389 | 0.464 | -19.3 | 104   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.093 | 0.098 | -5.4  | 104   | 0.00     |
| 30 C  | Chloroform                  | 1.006 | 0.941 | 6.5#  | 101   | 0.00     |
| 31 T  | Cyclohexane                 | 0.875 | 0.746 | 14.7  | 95    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.883 | 0.801 | 9.3   | 99    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.456 | 0.470 | -3.1  | 87    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.286 | 0.281 | 1.7   | 86    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.459 | 0.402 | 12.4  | 98    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.197 | 0.189 | 4.1   | 101   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.454 | 0.399 | 12.1  | 99    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.530 | 0.476 | 10.2  | 98    | 0.00     |
| 40 TM | Benzene                     | 1.336 | 1.219 | 8.8   | 101   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.104 | 0.114 | -9.6  | 105   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.349 | 0.323 | 7.4   | 100   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.382 | 0.364 | 4.7   | 103   | 0.00     |
| 44 TM | Trichloroethene             | 0.341 | 0.308 | 9.7   | 101   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.335 | 0.303 | 9.6#  | 101   | 0.00     |
| 46 T  | Dibromomethane              | 0.173 | 0.162 | 6.4   | 103   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.456 | 0.416 | 8.8   | 102   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.212 | 0.203 | 4.2   | 100   | 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                 | 0.002 | 0.002 | 0.0   | 104   | 0.00     |
| 50 S  | Toluene-d8                  | 1.032 | 1.012 | 1.9   | 85    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.204 | 0.198 | 2.9   | 102   | 0.00     |
| 52 CM | Toluene                     | 0.801 | 0.747 | 6.7#  | 102   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.416 | 0.397 | 4.6   | 102   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.502 | 0.476 | 5.2   | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.247 | 0.232 | 6.1   | 103   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.217 | 0.217 | 0.0   | 103   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.420 | 0.394 | 6.2   | 102   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.117 | 0.137 | -17.1 | 87    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.152 | 0.138 | 9.2   | 101   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.286 | 0.264 | 7.7   | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.222 | 0.209 | 5.9   | 102   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.335 | 0.331 | 1.2   | 86    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.311 | 0.282 | 9.3   | 103   | 0.00     |
| 65 PM | Chlorobenzene               | 0.982 | 0.891 | 9.3   | 102   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.370 | 0.330 | 10.8  | 101   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.808 | 1.651 | 8.7#  | 102   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.668 | 0.614 | 8.1   | 102   | 0.00     |
| 69 T  | o-Xylene                    | 0.613 | 0.572 | 6.7   | 102   | 0.00     |
| 70 T  | Styrene                     | 0.906 | 0.857 | 5.4   | 102   | 0.00     |
| 71 P  | Bromoform                   | 0.184 | 0.171 | 7.1   | 102   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.894 | 3.594 | 7.7   | 101   | 0.00     |
| 74 T  | N-amyl acetate              | 0.817 | 0.799 | 2.2   | 106   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.778 | 0.718 | 7.7   | 103   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.553 | 0.475 | 14.1  | 108   | 0.00     |
| 77 T  | Bromobenzene                | 0.850 | 0.786 | 7.5   | 103   | 0.00     |
| 78 T  | n-propylbenzene             | 4.718 | 4.351 | 7.8   | 101   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.611 | 2.406 | 7.9   | 102   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.082 | 2.877 | 6.7   | 101   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.235 | 0.219 | 6.8   | 103   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.678 | 2.497 | 6.8   | 103   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.681 | 2.506 | 6.5   | 101   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.040 | 2.882 | 5.2   | 102   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.971 | 3.644 | 8.2   | 101   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.307 | 3.098 | 6.3   | 102   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.660 | 1.531 | 7.8   | 104   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.621 | 1.487 | 8.3   | 103   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.162 | 3.005 | 5.0   | 102   | 0.00     |
| 90 T  | Hexachloroethane            | 0.689 | 0.628 | 8.9   | 105   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.414 | 1.309 | 7.4   | 102   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.101 | 0.093 | 7.9   | 103   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.750 | 0.728 | 2.9   | 105   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.426 | 0.403 | 5.4   | 104   | 0.00     |
| 95 T  | Naphthalene                 | 1.420 | 1.453 | -2.3  | 106   | 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 | 0.639 | 0.615 | 3.8  | 102   | 0.00     |

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