

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072924\  
 Data File : VD079446.D  
 Acq On : 29 Jul 2024 19:57  
 Operator : RP/MD  
 Sample : VSTDICV050  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ICVVD072924

Quant Time: Jul 30 03:22:03 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072924S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 30 03:20:36 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   | 92    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.392 | 0.353 | 9.9   | 84    | 0.00     |
| 3 P   | Chloromethane               | 0.722 | 0.643 | 10.9  | 85    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.858 | 0.787 | 8.3#  | 83    | 0.00     |
| 5 T   | Bromomethane                | 0.625 | 0.519 | 17.0  | 86    | 0.00     |
| 6 T   | Chloroethane                | 0.552 | 0.470 | 14.9  | 82    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.854 | 0.783 | 8.3   | 82    | 0.00     |
| 8 T   | Diethyl Ether               | 0.258 | 0.250 | 3.1   | 97    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.540 | 0.493 | 8.7   | 82    | 0.00     |
| 10 T  | Methyl Iodide               | 0.633 | 0.585 | 7.6   | 74    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.029 | 0.028 | 3.4   | 126   | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 0.540 | 0.504 | 6.7#  | 83    | 0.01     |
| 13 T  | Acrolein                    | 0.045 | 0.045 | 0.0   | 128   | 0.00     |
| 14 T  | Allyl chloride              | 0.713 | 0.677 | 5.0   | 86    | 0.00     |
| 15 T  | Acrylonitrile               | 0.120 | 0.118 | 1.7   | 110   | 0.00     |
| 16 T  | Acetone                     | 0.099 | 0.085 | 14.1  | 91    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.783 | 1.637 | 8.2   | 81    | 0.00     |
| 18 T  | Methyl Acetate              | 0.306 | 0.291 | 4.9   | 111   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.103 | 1.119 | -1.5  | 103   | 0.00     |
| 20 T  | Methylene Chloride          | 1.218 | 0.746 | 38.8# | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.607 | 0.575 | 5.3   | 84    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.587 | 1.578 | 0.6   | 92    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.193 | 1.218 | -2.1  | 101   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.064 | 0.990 | 7.0   | 85    | 0.00     |
| 25 T  | 2-Butanone                  | 0.140 | 0.137 | 2.1   | 109   | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 0.860 | 0.767 | 10.8  | 79    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.694 | 0.657 | 5.3   | 84    | 0.00     |
| 28 T  | Bromochloromethane          | 0.466 | 0.416 | 10.7  | 96    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.087 | 0.090 | -3.4  | 117   | 0.00     |
| 30 C  | Chloroform                  | 1.077 | 1.004 | 6.8#  | 86    | 0.00     |
| 31 T  | Cyclohexane                 | 0.844 | 0.774 | 8.3   | 84    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.889 | 0.819 | 7.9   | 82    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.508 | 0.469 | 7.7   | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.338 | 0.308 | 8.9   | 88    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.462 | 0.433 | 6.3   | 82    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.189 | 0.191 | -1.1  | 111   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.486 | 0.449 | 7.6   | 82    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.551 | 0.546 | 0.9   | 86    | 0.00     |
| 40 TM | Benzene                     | 1.467 | 1.374 | 6.3   | 84    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.104 | 0.090 | 13.5  | 106   | -0.02    |
| 42 TM | 1,2-Dichloroethane          | 0.350 | 0.334 | 4.6   | 95    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.356 | 0.350 | 1.7   | 108   | 0.00     |
| 44 TM | Trichloroethene             | 0.365 | 0.336 | 7.9   | 83    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.357 | 0.343 | 3.9#  | 89    | 0.00     |
| 46 T  | Dibromomethane              | 0.198 | 0.192 | 3.0   | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.486 | 0.465 | 4.3   | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.159 | 0.167 | -5.0  | 109   | 0.00     |

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 ALS Vial : 11 Sample Multiplier: 1

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 MSVOA\_D  
 ClientSampleId :  
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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  | 109   | -0.01    |
| 50 S  | Toluene-d8                  | 1.314 | 1.213 | 7.7  | 85    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.182 | 0.188 | -3.3 | 115   | 0.00     |
| 52 CM | Toluene                     | 0.907 | 0.862 | 5.0# | 83    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.449 | 0.433 | 3.6  | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.540 | 0.520 | 3.7  | 90    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.261 | 0.243 | 6.9  | 94    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.309 | 0.321 | -3.9 | 105   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.443 | 0.431 | 2.7  | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.142 | 0.150 | -5.6 | 109   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.127 | 0.132 | -3.9 | 111   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.341 | 0.331 | 2.9  | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.244 | 0.241 | 1.2  | 100   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.380 | 0.361 | 5.0  | 90    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 99    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.337 | 0.310 | 8.0  | 83    | 0.00     |
| 65 PM | Chlorobenzene               | 1.107 | 1.024 | 7.5  | 86    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.364 | 0.353 | 3.0  | 90    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.813 | 1.764 | 2.7# | 85    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.719 | 0.697 | 3.1  | 85    | 0.00     |
| 69 T  | o-Xylene                    | 0.659 | 0.639 | 3.0  | 85    | 0.00     |
| 70 T  | Styrene                     | 1.156 | 1.144 | 1.0  | 87    | 0.00     |
| 71 P  | Bromoform                   | 0.206 | 0.197 | 4.4  | 101   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 102   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.384 | 3.227 | 4.6  | 84    | 0.00     |
| 74 T  | N-amyl acetate              | 0.735 | 0.748 | -1.8 | 112   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.650 | 0.632 | 2.8  | 108   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.437 | 0.389 | 11.0 | 112   | 0.00     |
| 77 T  | Bromobenzene                | 0.838 | 0.787 | 6.1  | 90    | 0.00     |
| 78 T  | n-propylbenzene             | 4.180 | 4.037 | 3.4  | 86    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.327 | 2.203 | 5.3  | 86    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.785 | 2.680 | 3.8  | 85    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.229 | 0.223 | 2.6  | 110   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.426 | 2.321 | 4.3  | 88    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.435 | 2.359 | 3.1  | 87    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.839 | 2.779 | 2.1  | 87    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.705 | 3.565 | 3.8  | 86    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.141 | 3.063 | 2.5  | 87    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.737 | 1.638 | 5.7  | 91    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.707 | 1.602 | 6.2  | 92    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.920 | 2.830 | 3.1  | 87    | 0.00     |
| 90 T  | Hexachloroethane            | 0.648 | 0.598 | 7.7  | 86    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.484 | 1.411 | 4.9  | 93    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.086 | 0.085 | 1.2  | 110   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.935 | 0.885 | 5.3  | 96    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.505 | 0.470 | 6.9  | 88    | 0.00     |
| 95 T  | Naphthalene                 | 1.619 | 1.664 | -2.8 | 110   | 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 | 0.823 | 0.784 | 4.7  | 99    | 0.00     |

(#) = Out of Range

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