

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD120823\  
 Data File : VD077790.D  
 Acq On : 08 Dec 2023 14:19  
 Operator : JC/SY  
 Sample : VSTDICV050  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ICVVD120823

Quant Time: Dec 08 15:39:16 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D120823S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 08 13:33:18 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    | 103   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.625 | 0.609 | 2.6    | 104   | 0.00     |
| 3 P   | Chloromethane               | 0.851 | 0.880 | -3.4   | 108   | 0.00     |
| 4 C   | Vinyl Chloride              | 1.156 | 1.146 | 0.9#   | 100   | 0.00     |
| 5 T   | Bromomethane                | 0.649 | 0.637 | 1.8    | 98    | 0.00     |
| 6 T   | Chloroethane                | 0.788 | 0.785 | 0.4    | 101   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.064 | 1.103 | -3.7   | 105   | 0.01     |
| 8 T   | Diethyl Ether               | 0.299 | 0.305 | -2.0   | 103   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.609 | 0.623 | -2.3   | 102   | 0.01     |
| 10 T  | Methyl Iodide               | 0.399 | 0.506 | -26.8# | 96    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.032 | 0.031 | 3.1    | 115   | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.601 | 0.639 | -6.3#  | 106   | 0.01     |
| 13 T  | Acrolein                    | 0.062 | 0.049 | 21.0   | 82    | 0.00     |
| 14 T  | Allyl chloride              | 0.827 | 0.871 | -5.3   | 107   | 0.00     |
| 15 T  | Acrylonitrile               | 0.128 | 0.138 | -7.8   | 111   | 0.00     |
| 16 T  | Acetone                     | 0.161 | 0.130 | 19.3   | 114   | 0.00     |
| 17 T  | Carbon Disulfide            | 2.033 | 2.087 | -2.7   | 104   | 0.00     |
| 18 T  | Methyl Acetate              | 0.464 | 0.492 | -6.0   | 109   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.275 | 1.403 | -10.0  | 111   | 0.00     |
| 20 T  | Methylene Chloride          | 0.835 | 0.735 | 12.0   | 104   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.681 | 0.722 | -6.0   | 103   | 0.01     |
| 22 T  | Diisopropyl ether           | 1.727 | 1.856 | -7.5   | 106   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.844 | 0.911 | -7.9   | 107   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.170 | 1.210 | -3.4   | 104   | 0.00     |
| 25 T  | 2-Butanone                  | 0.185 | 0.169 | 8.6    | 114   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.982 | 1.031 | -5.0   | 106   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.733 | 0.780 | -6.4   | 105   | 0.00     |
| 28 T  | Bromochloromethane          | 0.473 | 0.506 | -7.0   | 107   | 0.01     |
| 29 T  | Tetrahydrofuran             | 0.094 | 0.102 | -8.5   | 112   | 0.00     |
| 30 C  | Chloroform                  | 1.171 | 1.218 | -4.0#  | 103   | 0.00     |
| 31 T  | Cyclohexane                 | 1.048 | 1.068 | -1.9   | 105   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.032 | 1.082 | -4.8   | 104   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.589 | 0.579 | 1.7    | 99    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 107   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.350 | 0.349 | 0.3    | 99    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.560 | 0.584 | -4.3   | 102   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.218 | 0.224 | -2.8   | 116   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.558 | 0.593 | -6.3   | 104   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.664 | 0.721 | -8.6   | 104   | 0.00     |
| 40 TM | Benzene                     | 1.590 | 1.679 | -5.6   | 104   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.111 | 0.119 | -7.2   | 118   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.412 | 0.440 | -6.8   | 106   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.388 | 0.416 | -7.2   | 111   | 0.00     |
| 44 TM | Trichloroethene             | 0.414 | 0.437 | -5.6   | 103   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.387 | 0.414 | -7.0#  | 106   | 0.00     |
| 46 T  | Dibromomethane              | 0.205 | 0.214 | -4.4   | 104   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.518 | 0.550 | -6.2   | 104   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.221 | 0.242 | -9.5   | 111   | 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   | 125   | 0.01     |
| 50 S  | Toluene-d8                  | 1.403 | 1.469 | -4.7  | 101   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.198 | 0.213 | -7.6  | 108   | 0.00     |
| 52 CM | Toluene                     | 0.986 | 1.064 | -7.9# | 103   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.498 | 0.539 | -8.2  | 106   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.602 | 0.646 | -7.3  | 105   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.280 | 0.300 | -7.1  | 107   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.247 | 0.269 | -8.9  | 108   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.482 | 0.514 | -6.6  | 105   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.141 | 0.158 | -12.1 | 122   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.164 | 0.156 | 4.9   | 109   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.337 | 0.362 | -7.4  | 106   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.263 | 0.273 | -3.8  | 105   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.419 | 0.413 | 1.4   | 97    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.367 | 0.386 | -5.2  | 101   | 0.00     |
| 65 PM | Chlorobenzene               | 1.310 | 1.230 | 6.1   | 104   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.416 | 0.427 | -2.6  | 100   | 0.00     |
| 67 C  | Ethyl Benzene               | 2.082 | 2.205 | -5.9# | 102   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.796 | 0.854 | -7.3  | 101   | 0.00     |
| 69 T  | o-Xylene                    | 0.734 | 0.798 | -8.7  | 103   | 0.00     |
| 70 T  | Styrene                     | 1.091 | 1.191 | -9.2  | 103   | 0.00     |
| 71 P  | Bromoform                   | 0.217 | 0.233 | -7.4  | 106   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.790 | 4.095 | -8.0  | 101   | 0.00     |
| 74 T  | N-amyl acetate              | 0.745 | 0.811 | -8.9  | 109   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.661 | 0.687 | -3.9  | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.434 | 0.412 | 5.1   | 80    | 0.00     |
| 77 T  | Bromobenzene                | 0.891 | 0.942 | -5.7  | 103   | 0.00     |
| 78 T  | n-propylbenzene             | 4.618 | 4.939 | -7.0  | 100   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.475 | 2.637 | -6.5  | 102   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.161 | 3.371 | -6.6  | 99    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.214 | 0.226 | -5.6  | 104   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.587 | 2.751 | -6.3  | 101   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.668 | 2.902 | -8.8  | 101   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.161 | 3.475 | -9.9  | 102   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.944 | 4.326 | -9.7  | 101   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.531 | 3.864 | -9.4  | 99    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.823 | 1.942 | -6.5  | 101   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.966 | 1.941 | 1.3   | 102   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.323 | 3.645 | -9.7  | 99    | 0.00     |
| 90 T  | Hexachloroethane            | 0.649 | 0.699 | -7.7  | 101   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.550 | 1.617 | -4.3  | 102   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.102 | 0.100 | 2.0   | 101   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.059 | 1.111 | -4.9  | 106   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.571 | 0.621 | -8.8  | 102   | 0.00     |
| 95 T  | Naphthalene                 | 1.759 | 1.979 | -12.5 | 108   | 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 | 0.873 | 0.941 | -7.8 | 106   | 0.00     |

(#) = Out of Range

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