

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD091422\  
 Data File : VD074299.D  
 Acq On : 14 Sep 2022 22:03  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 15 04:16:56 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D090922S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 10 04:45:19 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                    | Amount  | Calc.   | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0    | 59    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.713  | 4.6    | 60    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 47.730  | 4.5    | 66    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 54.746  | -9.5#  | 70    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 62.375  | -24.8  | 81    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 60.693  | -21.4  | 82    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.603  | 4.8    | 62    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 51.826  | -3.7   | 65    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.983  | 2.0    | 63    | 0.01     |
| 10 T  | Methyl Iodide               | 50.000  | 50.283  | -0.6   | 60    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 223.669 | 10.5   | 59    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.595  | 4.8#   | 61    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 187.536 | 25.0   | 45    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.082  | -0.2   | 64    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 276.138 | -10.5  | 66    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 246.156 | 1.5    | 52    | 0.01     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.977  | 10.0   | 59    | 0.01     |
| 18 T  | Methyl Acetate              | 50.000  | 51.547  | -3.1   | 68    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.355  | -6.7   | 66    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 66.149  | -32.3# | 79    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.153  | 1.7    | 62    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 54.917  | -9.8   | 67    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 273.754 | -9.5   | 64    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 53.646  | -7.3   | 67    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 260.775 | -4.3   | 63    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 45.647  | 8.7    | 57    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.110  | -4.2   | 66    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 54.986  | -10.0  | 62    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 267.358 | -6.9   | 65    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 53.539  | -7.1#  | 67    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 44.554  | 10.9   | 60    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.688  | -1.4   | 63    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.987  | -2.0   | 61    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 62    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 47.419  | 5.2    | 60    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.096  | 5.8    | 63    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 48.614  | 2.8    | 64    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 48.298  | 3.4    | 62    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 44.425  | 11.2   | 60    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.884  | -1.8   | 67    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 62.233  | -24.5  | 71    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.540  | -5.1   | 69    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.487  | -1.0   | 65    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 47.517  | 5.0    | 62    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.715  | -5.4#  | 69    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 52.525  | -5.0   | 68    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 52.277  | -4.6   | 68    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 48.904  | 2.2    | 63    | 0.00     |

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 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

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 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                    | Amount   | Calc.    | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| ----- |                             |          |          |       |       |          |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1011.136 | -1.1  | 59    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.872   | 0.3   | 60    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 267.279  | -6.9  | 67    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.025   | -0.0# | 65    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 48.459   | 3.1   | 61    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.087   | -0.2  | 65    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.486   | -5.0  | 67    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.869   | -5.7  | 66    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.947   | -5.9  | 68    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 168.596  | 32.6# | 50    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 265.358  | -6.1  | 65    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.845   | -5.7  | 68    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.752   | -1.5  | 65    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 44.571   | 10.9  | 60    | 0.00     |
|       |                             |          |          |       |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 63    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 44.207   | 11.6  | 60    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.037   | -2.1  | 67    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.160   | -4.3  | 68    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.889   | 0.2#  | 66    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.524   | 0.5   | 65    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.319   | -0.6  | 66    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.674   | -5.3  | 68    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.057   | -2.1  | 65    | 0.00     |
|       |                             |          |          |       |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 67    | 0.01     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.055   | 5.9   | 65    | 0.01     |
| 74 T  | N-ethyl acetate             | 50.000   | 48.106   | 3.8   | 65    | 0.01     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.252   | 1.5   | 67    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 54.713   | -9.4  | 69    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.905   | 2.2   | 69    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.537   | 4.9   | 67    | 0.01     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.354   | 5.3   | 66    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 46.683   | 6.6   | 66    | 0.01     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 43.679   | 12.6  | 59    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.388   | 3.2   | 68    | 0.01     |
| 83 T  | tert-Butylbenzene           | 50.000   | 47.123   | 5.8   | 66    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 47.442   | 5.1   | 66    | 0.01     |
| 85 T  | sec-Butylbenzene            | 50.000   | 46.973   | 6.1   | 66    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 46.875   | 6.3   | 65    | 0.01     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.907   | 4.2   | 68    | 0.01     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.333   | 5.3   | 67    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 46.701   | 6.6   | 65    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 47.890   | 4.2   | 67    | 0.01     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 47.615   | 4.8   | 66    | 0.01     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 49.033   | 1.9   | 65    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 44.653   | 10.7  | 64    | 0.01     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 44.452   | 11.1  | 63    | 0.01     |
| 95 T  | Naphthalene                 | 50.000   | 47.837   | 4.3   | 66    | 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               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 46.321 | 7.4  | 65    | 0.01     |

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