

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD092821\  
 Data File : VD070513.D  
 Acq On : 28 Sep 2021 20:13  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 28 23:45:58 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D090821S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 09 03:07:09 2021  
 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   | 99    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 41.314  | 17.4  | 88    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.611  | 10.8  | 95    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 41.244  | 17.5# | 94    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 46.458  | 7.1   | 99    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 46.796  | 6.4   | 100   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 43.371  | 13.3  | 93    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.080  | 1.8   | 97    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 43.979  | 12.0  | 93    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 42.873  | 14.3  | 83    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 100.364 | 59.9# | 58    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 44.531  | 10.9# | 92    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 173.592 | 30.6# | 73    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 44.276  | 11.4  | 93    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 241.049 | 3.6   | 102   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 210.302 | 15.9  | 93    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 39.641  | 20.7  | 85    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 54.480  | -9.0  | 116   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.358  | -2.7  | 99    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 54.571  | -9.1  | 105   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.341  | 5.3   | 97    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.684  | 0.6   | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 232.239 | 7.1   | 94    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 46.307  | 7.4   | 100   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 232.879 | 6.8   | 101   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 43.180  | 13.6  | 94    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.209  | 1.6   | 100   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.266  | -0.5  | 108   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 240.764 | 3.7   | 102   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 47.938  | 4.1#  | 104   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 41.119  | 17.8  | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 46.611  | 6.8   | 100   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 45.335  | 9.3   | 102   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 100   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.965  | 2.1   | 101   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.786  | 4.4   | 96    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 48.653  | 2.7   | 105   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 47.871  | 4.3   | 96    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 46.398  | 7.2   | 87    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.551  | 0.9   | 98    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.711  | 2.6   | 105   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 47.929  | 4.1   | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 47.486  | 5.0   | 101   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.876  | -1.8  | 100   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 48.965  | 2.1#  | 101   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 49.149  | 1.7   | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 49.947  | 0.1   | 103   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 51.252  | -2.5  | 103   | 0.00     |

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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 | 1090.847 | -9.1   | 100   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.752   | -1.5   | 99    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 255.027  | -2.0   | 104   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.282   | -4.6#  | 99    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 48.549   | 2.9    | 96    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 47.351   | 5.3    | 97    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.595   | -1.2   | 101   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.204   | -8.4   | 100   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.428   | -2.9   | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 251.782  | -0.7   | 99    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 255.789  | -2.3   | 102   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.317   | -4.6   | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.830   | -3.7   | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.598   | -5.2   | 104   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 100   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.917   | -5.8   | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.566   | -1.1   | 101   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.733   | -1.5   | 102   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.787   | -5.6#  | 101   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 106.996  | -7.0   | 99    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 57.992   | -16.0  | 106   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 56.653   | -13.3  | 102   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.649   | -3.3   | 103   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 102   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 55.614   | -11.2  | 104   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 64.154   | -28.3# | 135   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.986   | -2.0   | 110   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 46.494   | 7.0    | 97    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.093   | -6.2   | 106   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.265   | -6.5   | 102   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.909   | -5.8   | 103   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 54.419   | -8.8   | 101   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 45.082   | 9.8    | 93    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.596   | -3.2   | 100   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 58.083   | -16.2  | 109   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 55.130   | -10.3  | 102   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.068   | -8.1   | 103   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.935   | -9.9   | 101   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.706   | -1.4   | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.385   | 1.2    | 100   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.617   | -3.2   | 98    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 46.747   | 6.5    | 99    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 49.779   | 0.4    | 100   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 48.350   | 3.3    | 106   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 51.532   | -3.1   | 103   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 49.660   | 0.7    | 107   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 52.771   | -5.5   | 111   | 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 | 51.145 | -2.3 | 113   | 0.00     |

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