

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY100423\  
 Data File : VY015820.D  
 Acq On : 04 Oct 2023 09:58  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 04 15:54:20 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091923S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 20 01:39:40 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                    | Amount  | Calc.   | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0    | 127   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 52.064  | -4.1   | 122   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 48.278  | 3.4    | 114   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 53.694  | -7.4#  | 126   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 41.217  | 17.6   | 106   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 55.329  | -10.7  | 131   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 56.192  | -12.4  | 138   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 51.197  | -2.4   | 124   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 55.969  | -11.9  | 136   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.770  | 0.5    | 122   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 281.577 | -12.6  | 152   | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 53.440  | -6.9#  | 130   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 194.696 | 22.1   | 98    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 51.093  | -2.2   | 123   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 260.559 | -4.2   | 132   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 229.349 | 8.3    | 121   | 0.01     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.153  | 5.7    | 108   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 71.639  | -43.3# | 179   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 54.955  | -9.9   | 134   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 51.321  | -2.6   | 128   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 52.947  | -5.9   | 124   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.126  | -4.3   | 124   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 218.503 | 12.6   | 106   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.862  | -5.7   | 128   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 242.450 | 3.0    | 130   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.387  | -2.8   | 134   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 53.487  | -7.0   | 129   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 47.842  | 4.3    | 119   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 266.610 | -6.6   | 136   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 53.704  | -7.4#  | 132   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.792  | 0.4    | 125   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 56.891  | -13.8  | 138   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 41.390  | 17.2   | 116   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 123   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 43.246  | 13.5   | 113   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 55.001  | -10.0  | 131   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 48.053  | 3.9    | 119   | 0.01     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 59.025  | -18.0  | 140   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 56.427  | -12.9  | 132   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 54.191  | -8.4   | 127   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 58.234  | -16.5  | 161   | 0.01     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 54.811  | -9.6   | 130   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.051  | -2.1   | 124   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 55.764  | -11.5  | 131   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 54.416  | -8.8#  | 127   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 56.210  | -12.4  | 133   | 0.01     |
| 47 T  | Bromodichloromethane        | 50.000  | 56.538  | -13.1  | 133   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 56.957  | -13.9  | 137   | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

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 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

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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) |
|-------|-----------------------------|----------|----------|--------|-------|----------|
| ----- |                             |          |          |        |       |          |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1227.929 | -22.8  | 155   | 0.02     |
| 50 S  | Toluene-d8                  | 50.000   | 44.332   | 11.3   | 122   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 279.465  | -11.8  | 136   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 54.981   | -10.0# | 128   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 55.132   | -10.3  | 129   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.216   | -8.4   | 127   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 55.311   | -10.6  | 132   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 56.694   | -13.4  | 131   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 54.334   | -8.7   | 129   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 224.245  | 10.3   | 115   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 276.952  | -10.8  | 137   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 57.068   | -14.1  | 135   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 54.684   | -9.4   | 133   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 45.086   | 9.8    | 121   | 0.00     |
|       |                             |          |          |        |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 121   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 58.823   | -17.6  | 137   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 55.847   | -11.7  | 131   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 58.334   | -16.7  | 135   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 56.510   | -13.0# | 130   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 113.168  | -13.2  | 130   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 57.507   | -15.0  | 131   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 58.021   | -16.0  | 131   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 61.020   | -22.0  | 141   | 0.00     |
|       |                             |          |          |        |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 116   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 59.994   | -20.0  | 135   | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 53.269   | -6.5   | 118   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 58.221   | -16.4  | 136   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 62.391   | -24.8  | 139   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 57.872   | -15.7  | 131   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 58.329   | -16.7  | 129   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 58.201   | -16.4  | 129   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 59.091   | -18.2  | 131   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 59.880   | -19.8  | 135   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 56.893   | -13.8  | 126   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 61.143   | -22.3  | 136   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 58.381   | -16.8  | 128   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 59.987   | -20.0  | 132   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 59.286   | -18.6  | 130   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 57.632   | -15.3  | 129   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 56.923   | -13.8  | 128   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 56.513   | -13.0  | 125   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 60.497   | -21.0  | 135   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 58.056   | -16.1  | 130   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 59.807   | -19.6  | 143   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 56.905   | -13.8  | 126   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 57.876   | -15.8  | 127   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 61.487   | -23.0  | 135   | 0.00     |

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ALS Vial : 2 Sample Multiplier: 1

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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) |
|------|------------------------|--------|--------|-------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 57.445 | -14.9 | 127   | 0.00     |

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