

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX083119\  
 Data File : VX011964.D  
 Acq On : 31 Aug 2019 22:07  
 Operator : SY/SP  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA X/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 01 03:47:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082919S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 30 01:59:05 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0    | 92    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 45.521  | 9.0    | 90    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 46.226  | 7.5    | 88    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 47.745  | 4.5#   | 91    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 52.842  | -5.7   | 103   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.822  | -3.6   | 97    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.841  | 0.3    | 94    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 54.891  | -9.8   | 106   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.960  | 0.1    | 94    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 48.904  | 2.2    | 95    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 279.733 | -11.9  | 108   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 51.397  | -2.8#  | 95    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 222.104 | 11.2   | 87    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 52.523  | -5.0   | 97    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 281.274 | -12.5  | 103   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 264.986 | -6.0   | 103   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.604  | 6.8    | 84    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 59.910  | -19.8  | 117   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 56.398  | -12.8  | 105   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 54.985  | -10.0  | 100   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 53.349  | -6.7   | 99    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 55.285  | -10.6  | 103   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 269.655 | -7.9   | 97    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 55.216  | -10.4  | 102   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 279.397 | -11.8  | 102   | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 50.125  | -0.3   | 94    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 57.248  | -14.5  | 105   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 53.036  | -6.1   | 88    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 277.920 | -11.2  | 101   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 57.028  | -14.1# | 107   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.399  | 9.2    | 87    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 54.879  | -9.8   | 102   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 55.092  | -10.2  | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 54.744  | -9.5   | 102   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.621  | 0.8    | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 54.496  | -9.0   | 101   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.056  | -4.1   | 100   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 44.154  | 11.7   | 87    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.352  | -6.7   | 101   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 54.645  | -9.3   | 103   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 55.860  | -11.7  | 105   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.184  | -8.4   | 102   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 53.506  | -7.0   | 102   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 54.221  | -8.4#  | 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 : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.    | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 55.217   | -10.4 | 105   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 55.878   | -11.8 | 105   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 54.990   | -10.0 | 103   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1157.077 | -15.7 | 108   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 53.135   | -6.3  | 96    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 273.367  | -9.3  | 103   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.826   | -7.7# | 103   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 54.255   | -8.5  | 103   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.729   | -7.5  | 102   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 56.108   | -12.2 | 108   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 55.164   | -10.3 | 104   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 55.923   | -11.8 | 107   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 272.840  | -9.1  | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 270.012  | -8.0  | 102   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 57.304   | -14.6 | 109   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 56.487   | -13.0 | 107   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.317   | -2.6  | 100   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 56.582   | -13.2 | 111   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 54.624   | -9.2  | 107   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 55.791   | -11.6 | 109   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.728   | -5.5# | 102   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 105.810  | -5.8  | 102   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.615   | -7.2  | 104   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.461   | -8.9  | 104   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 56.808   | -13.6 | 110   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.131   | -4.3  | 104   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 51.369   | -2.7  | 100   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 53.609   | -7.2  | 105   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.157   | 3.7   | 94    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 54.883   | -9.8  | 109   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.646   | -3.3  | 101   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.792   | -5.6  | 105   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.838   | -5.7  | 103   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 49.291   | 1.4   | 98    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 52.655   | -5.3  | 104   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.477   | -5.0  | 104   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.492   | -5.0  | 104   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.446   | -2.9  | 101   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.951   | -3.9  | 102   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 54.099   | -8.2  | 107   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 53.839   | -7.7  | 106   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.077   | -0.2  | 99    | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 53.867 | -7.7 | 108   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 54.879 | -9.8 | 108   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 53.473 | -6.9 | 104   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 53.223 | -6.4 | 105   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 50.801 | -1.6 | 101   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 53.360 | -6.7 | 102   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.951 | -5.9 | 103   | 0.00     |

(#) = Out of Range

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