

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD010920\  
 Data File : VD064829.D  
 Acq On : 09 Jan 2020 21:16  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 10 06:13:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D122419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 24 13:19:06 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    | 85    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.527  | 4.9    | 80    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 52.557  | -5.1   | 89    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.299  | -2.6#  | 89    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 49.867  | 0.3    | 88    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 54.473  | -8.9   | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.107  | -2.2   | 86    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 57.308  | -14.6  | 97    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 54.032  | -8.1   | 90    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 55.962  | -11.9  | 85    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 299.011 | -19.6  | 93    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 51.017  | -2.0#  | 86    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 233.871 | 6.5    | 76    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 56.698  | -13.4  | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 311.656 | -24.7# | 102   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 328.784 | -31.5# | 109   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.425  | 3.2    | 82    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 60.981  | -22.0# | 104   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 62.305  | -24.6# | 102   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 63.693  | -27.4# | 99    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 54.640  | -9.3   | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 62.160  | -24.3# | 103   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 313.189 | -25.3# | 99    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 59.489  | -19.0  | 100   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 316.444 | -26.6# | 103   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 54.228  | -8.5   | 92    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 57.415  | -14.8  | 96    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 62.749  | -25.5# | 98    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 315.383 | -26.2# | 103   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 60.609  | -21.2# | 102   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.718  | 0.6    | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 56.610  | -13.2  | 96    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 61.760  | -23.5# | 103   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 87    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 57.662  | -15.3  | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 53.851  | -7.7   | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 60.356  | -20.7# | 100   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 55.106  | -10.2  | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.689  | 0.6    | 84    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 56.795  | -13.6  | 99    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 60.238  | -20.5# | 95    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 59.743  | -19.5  | 103   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 59.317  | -18.6  | 100   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 53.708  | -7.4   | 93    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 60.160  | -20.3# | 104   | 0.00     |

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 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
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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   | 59.521   | -19.0  | 101   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 59.125   | -18.3  | 101   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 58.594   | -17.2  | 94    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1208.207 | -20.8# | 105   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 56.086   | -12.2  | 95    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 313.371  | -25.3# | 106   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 56.057   | -12.1# | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 59.935   | -19.9  | 101   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 58.999   | -18.0  | 100   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 58.184   | -16.4  | 100   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 60.705   | -21.4# | 102   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 59.919   | -19.8  | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 273.384  | -9.4   | 99    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 317.586  | -27.0# | 104   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 58.661   | -17.3  | 100   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 58.580   | -17.2  | 100   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 57.169   | -14.3  | 95    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 90    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 55.531   | -11.1  | 100   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 55.802   | -11.6  | 98    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 58.432   | -16.9  | 103   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 55.064   | -10.1# | 97    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 111.678  | -11.7  | 97    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 56.380   | -12.8  | 99    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 57.738   | -15.5  | 101   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 58.065   | -16.1  | 102   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.233   | -8.5   | 95    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 59.557   | -19.1  | 103   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 58.804   | -17.6  | 104   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 50.422   | -0.8   | 104   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 55.255   | -10.5  | 98    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 54.522   | -9.0   | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 54.884   | -9.8   | 98    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 54.571   | -9.1   | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 58.519   | -17.0  | 104   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 55.505   | -11.0  | 99    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.391   | -8.8   | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 55.873   | -11.7  | 98    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.099   | -8.2   | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.538   | -9.1   | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 56.038   | -12.1  | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 55.578   | -11.2  | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.885   | -7.8   | 94    | 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) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 53.505 | -7.0  | 95    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 56.457 | -12.9 | 100   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 57.218 | -14.4 | 104   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 52.540 | -5.1  | 92    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.649 | 0.7   | 89    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 56.913 | -13.8 | 97    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 54.284 | -8.6  | 95    | 0.00     |

(#) = Out of Range

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