

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW072719\  
 Data File : VW011515.D  
 Acq On : 26 Jul 2019 14:10  
 Operator : SY/VA  
 Sample : VSTDICV050  
 Misc : 5.00G/5.0ML/MSVOA W/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 ICVVW072719

Quant Time: Jul 27 05:41:56 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 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   | 90    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.203  | 7.6   | 81    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.317  | 11.4  | 82    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.690  | 8.6#  | 79    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 46.116  | 7.8   | 82    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 45.942  | 8.1   | 78    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.735  | 6.5   | 78    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 45.814  | 8.4   | 77    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 46.328  | 7.3   | 78    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 45.954  | 8.1   | 76    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 221.596 | 11.4  | 80    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.165  | 7.7#  | 78    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 240.934 | 3.6   | 88    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 46.225  | 7.5   | 78    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 231.617 | 7.4   | 78    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 235.130 | 5.9   | 80    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.564  | 6.9   | 78    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 45.873  | 8.3   | 77    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 46.395  | 7.2   | 76    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 43.266  | 13.5  | 79    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.240  | 7.5   | 79    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 45.990  | 8.0   | 78    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 234.563 | 6.2   | 77    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 45.589  | 8.8   | 77    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 226.820 | 9.3   | 74    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 42.987  | 14.0  | 78    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 45.296  | 9.4   | 78    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 51.185  | -2.4  | 96    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 228.847 | 8.5   | 76    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 44.833  | 10.3# | 78    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 44.879  | 10.2  | 79    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 46.105  | 7.8   | 78    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.222  | 1.6   | 87    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 90    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.858  | -1.7  | 87    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.077  | 7.8   | 77    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 45.919  | 8.2   | 76    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 46.579  | 6.8   | 78    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.476  | 5.0   | 79    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 45.528  | 8.9   | 78    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 45.598  | 8.8   | 77    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 45.812  | 8.4   | 77    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 46.464  | 7.1   | 77    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 46.639  | 6.7   | 79    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 46.020  | 8.0#  | 77    | 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) |
|-------|-----------------------------|----------|---------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 46.045  | 7.9   | 77    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 45.913  | 8.2   | 77    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 47.377  | 5.2   | 77    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 941.186 | 5.9   | 77    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.901  | -1.8  | 88    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 232.659 | 6.9   | 76    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 46.613  | 6.8#  | 79    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 46.930  | 6.1   | 77    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 47.012  | 6.0   | 77    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 46.105  | 7.8   | 77    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 47.640  | 4.7   | 76    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 46.255  | 7.5   | 77    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 291.096 | -16.4 | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 237.621 | 5.0   | 75    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 47.041  | 5.9   | 78    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 46.416  | 7.2   | 77    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.072  | -2.1  | 88    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 92    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 44.370  | 11.3  | 78    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 45.245  | 9.5   | 79    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 45.863  | 8.3   | 78    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 45.903  | 8.2#  | 78    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 91.554  | 8.4   | 78    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 46.128  | 7.7   | 78    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 46.760  | 6.5   | 79    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 46.295  | 7.4   | 75    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 90    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 46.779  | 6.4   | 79    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 48.505  | 3.0   | 78    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 46.524  | 7.0   | 77    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 42.566  | 14.9  | 76    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 46.431  | 7.1   | 78    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.355  | 5.3   | 79    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 46.743  | 6.5   | 79    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 47.389  | 5.2   | 79    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 46.360  | 7.3   | 74    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 46.248  | 7.5   | 78    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 47.504  | 5.0   | 79    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 47.280  | 5.4   | 79    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 47.523  | 5.0   | 79    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.384  | 5.2   | 79    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 46.638  | 6.7   | 79    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 46.636  | 6.7   | 80    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 47.840  | 4.3   | 80    | 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 | 47.641 | 4.7  | 79    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 46.673 | 6.7  | 79    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 46.895 | 6.2  | 76    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 49.173 | 1.7  | 81    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 48.247 | 3.5  | 81    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 46.662 | 6.7  | 79    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 49.955 | 0.1  | 82    | 0.00     |

(#) = Out of Range

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