

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091318\  
 Data File : VD059999.D  
 Acq On : 13 Sep 2018 16:15  
 Operator : JC/SY  
 Sample : VSTDICV050  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 ICVVD091318

Quant Time: Sep 13 16:50:38 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D091318S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 13 16:17:40 2018  
 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    | 108   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 51.458  | -2.9   | 104   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 52.086  | -4.2   | 121   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.217  | -2.4#  | 112   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 79.740  | -59.5# | 124   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 71.987  | -44.0# | 114   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 55.435  | -10.9  | 109   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.812  | -7.6   | 109   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 52.656  | -5.3   | 108   | 0.01     |
| 10 T  | Methyl Iodide               | 50.000  | 50.150  | -0.3   | 94    | 0.01     |
| 11 T  | Tert butyl alcohol          | 250.000 | 235.557 | 5.8    | 99    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 53.399  | -6.8#  | 110   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 220.401 | 11.8   | 102   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 53.187  | -6.4   | 107   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 250.228 | -0.1   | 103   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 250.684 | -0.3   | 106   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 54.021  | -8.0   | 109   | 0.01     |
| 18 T  | Methyl Acetate              | 50.000  | 50.811  | -1.6   | 107   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.276  | -0.6   | 102   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 51.603  | -3.2   | 98    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.652  | -1.3   | 101   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.852  | -1.7   | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 256.417 | -2.6   | 102   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.743  | -3.5   | 104   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 231.630 | 7.3    | 100   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.364  | -2.7   | 105   | 0.01     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.598  | -1.2   | 101   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 49.587  | 0.8    | 109   | 0.00     |
| 29    | Tetrahydrofuran             | 250.000 | 241.401 | 3.4    | 99    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.256  | -0.5#  | 100   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.459  | 3.1    | 100   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.385  | -2.8   | 102   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.855  | 2.3    | 105   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 107   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.376  | 1.2    | 106   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.262  | 1.5    | 101   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 48.251  | 3.5    | 102   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.177  | -2.4   | 103   | 0.01     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.033  | -4.1   | 105   | 0.01     |
| 40 TM | Benzene                     | 50.000  | 51.176  | -2.4   | 102   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.882  | -1.8   | 100   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.730  | -1.5   | 103   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.588  | -1.2   | 100   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.005  | -2.0   | 102   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.866  | -1.7#  | 101   | 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   | 51.522  | -3.0  | 102   | 0.01     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.888  | -1.8  | 103   | 0.01     |
| 48 T  | Methyl methacrylate         | 50.000   | 51.882  | -3.8  | 102   | 0.01     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 972.429 | 2.8   | 96    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.920  | -1.8  | 111   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 232.838 | 6.9   | 103   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.510  | -3.0# | 103   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.416  | -2.8  | 105   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.584  | -3.2  | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 48.527  | 2.9   | 103   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.333  | -2.7  | 101   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.857  | -1.7  | 102   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 256.165 | -2.5  | 110   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 237.875 | 4.9   | 102   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.751  | -3.5  | 101   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.774  | -1.5  | 104   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.016  | -0.0  | 106   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 105   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.178  | -4.4  | 102   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.977  | -6.0  | 102   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 53.726  | -7.5  | 103   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.413  | -6.8# | 103   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 109.034 | -9.0  | 103   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 54.681  | -9.4  | 105   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.041  | -10.1 | 107   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 54.463  | -8.9  | 102   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 104   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.656  | -5.3  | 101   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 51.307  | -2.6  | 100   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.484  | -3.0  | 100   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 51.698  | -3.4  | 101   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.319  | -6.6  | 105   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.245  | -4.5  | 102   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.233  | -0.5  | 98    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.407  | -4.8  | 100   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 51.666  | -3.3  | 102   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.406  | -2.8  | 101   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.002  | -4.0  | 100   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.146  | -2.3  | 101   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.764  | -5.5  | 103   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.464  | -4.9  | 98    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.164  | -2.3  | 99    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.576  | -3.2  | 100   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.985  | -10.0 | 102   | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 54.555 | -9.1 | 101   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 54.123 | -8.2 | 102   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.143 | 5.7  | 103   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 54.033 | -8.1 | 102   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 52.137 | -4.3 | 99    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 51.060 | -2.1 | 99    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 50.573 | -1.1 | 97    | 0.00     |

(#) = Out of Range

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