

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062519\  
 Data File : VD062892.D  
 Acq On : 25 Jun 2019 22:58  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 26 07:14:41 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 01:50:56 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    | 97    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 42.196  | 15.6   | 83    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 43.819  | 12.4   | 89    | 0.02     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.294  | 7.4#   | 88    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 45.642  | 8.7    | 77    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.767  | 4.5    | 87    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 44.644  | 10.7   | 85    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 54.969  | -9.9   | 95    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.547  | 0.9    | 97    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 50.370  | -0.7   | 93    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 262.335 | -4.9   | 108   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.558  | -1.1#  | 99    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 221.810 | 11.3   | 91    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 52.253  | -4.5   | 97    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 294.061 | -17.6  | 112   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 257.508 | -3.0   | 100   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.099  | 7.8    | 87    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 69.174  | -38.3# | 138   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 58.293  | -16.6  | 105   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 51.628  | -3.3   | 102   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 51.409  | -2.8   | 98    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 55.944  | -11.9  | 107   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 270.939 | -8.4   | 102   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.914  | -3.8   | 98    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 288.308 | -15.3  | 109   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 46.158  | 7.7    | 86    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 53.761  | -7.5   | 102   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 57.914  | -15.8  | 112   | 0.00     |
| 29    | Tetrahydrofuran             | 250.000 | 306.555 | -22.6# | 119   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 51.831  | -3.7#  | 98    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.756  | 8.5    | 87    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 47.395  | 5.2    | 87    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 45.151  | 9.7    | 92    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 102   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 44.016  | 12.0   | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.256  | -0.5   | 99    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.328  | -2.7   | 105   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 47.520  | 5.0    | 95    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 46.185  | 7.6    | 91    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 47.671  | 4.7    | 94    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 54.782  | -9.6   | 111   | 0.02     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.521  | 1.0    | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.658  | -5.3   | 101   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.935  | 0.1    | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.705  | -3.4#  | 105   | 0.00     |

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Instrument :  
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 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 01:50:56 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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 49.679   | 0.6   | 101   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.351   | -2.7  | 97    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 54.536   | -9.1  | 114   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1106.938 | -10.7 | 112   | -0.01    |
| 50 S  | Toluene-d8                  | 50.000   | 44.850   | 10.3  | 93    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 258.922  | -3.6  | 106   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.735   | -1.5# | 100   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 54.203   | -8.4  | 108   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.741   | -1.5  | 100   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.666   | -3.3  | 108   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.126   | -4.3  | 103   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.039   | 1.9   | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 265.224  | -6.1  | 109   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 286.875  | -14.8 | 113   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.504   | -3.0  | 103   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 54.076   | -8.2  | 108   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 45.991   | 8.0   | 99    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 51.498   | -3.0  | 103   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.947   | -5.9  | 100   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.038   | -2.1  | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.301   | 1.4#  | 98    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 93.880   | 6.1   | 89    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.495   | -7.0  | 98    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.947   | -7.9  | 102   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 55.885   | -11.8 | 107   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.742   | 0.5   | 97    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 52.592   | -5.2  | 96    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 54.407   | -8.8  | 111   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 55.598   | -11.2 | 108   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.966   | -3.9  | 98    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 46.837   | 6.3   | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.411   | -4.8  | 102   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.296   | 1.4   | 98    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.115   | -0.2  | 98    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.033   | -2.1  | 102   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.354   | 3.3   | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.934   | 2.1   | 93    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.352   | 1.3   | 99    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.867   | 4.3   | 89    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.805   | -3.6  | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.063   | 5.9   | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 45.396   | 9.2   | 92    | 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 | 48.838 | 2.3   | 91    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.112 | -0.2  | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 57.204 | -14.4 | 108   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 48.993 | 2.0   | 99    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 46.833 | 6.3   | 92    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 56.411 | -12.8 | 106   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.434 | -4.9  | 104   | 0.00     |

(#) = Out of Range

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