

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD061319\  
 Data File : VD062701.D  
 Acq On : 13 Jun 2019 18:43  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 14 07:35:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 08 00:02:21 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   | 86    | 0.02     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 41.515  | 17.0  | 77    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 42.657  | 14.7  | 77    | 0.01     |
| 4 C   | Vinyl Chloride              | 50.000  | 42.802  | 14.4# | 78    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 54.121  | -8.2  | 93    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 44.326  | 11.3  | 75    | 0.01     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.698  | 4.6   | 83    | 0.01     |
| 8 T   | Diethyl Ether               | 50.000  | 42.665  | 14.7  | 74    | 0.02     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.624  | 2.8   | 82    | 0.01     |
| 10 T  | Methyl Iodide               | 50.000  | 38.069  | 23.9# | 72    | 0.02     |
| 11 T  | Tert butyl alcohol          | 250.000 | 223.920 | 10.4  | 88    | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.503  | 3.0#  | 79    | 0.01     |
| 13 T  | Acrolein                    | 250.000 | 144.188 | 42.3# | 52    | 0.01     |
| 14 T  | Allyl chloride              | 50.000  | 48.039  | 3.9   | 82    | 0.02     |
| 15 T  | Acrylonitrile               | 250.000 | 242.729 | 2.9   | 85    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 240.578 | 3.8   | 77    | 0.01     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.807  | 10.4  | 78    | 0.02     |
| 18 T  | Methyl Acetate              | 50.000  | 42.754  | 14.5  | 84    | 0.01     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.131  | 1.7   | 84    | 0.01     |
| 20 T  | Methylene Chloride          | 50.000  | 43.549  | 12.9  | 82    | 0.02     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.441  | 5.1   | 87    | 0.02     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.488  | 3.0   | 84    | 0.02     |
| 23 T  | Vinyl Acetate               | 250.000 | 246.163 | 1.5   | 80    | 0.01     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 46.754  | 6.5   | 81    | 0.02     |
| 25 T  | 2-Butanone                  | 250.000 | 226.319 | 9.5   | 75    | 0.01     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.239  | 5.5   | 84    | 0.01     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.738  | 4.5   | 82    | 0.02     |
| 28 T  | Bromochloromethane          | 50.000  | 51.482  | -3.0  | 91    | 0.01     |
| 29    | Tetrahydrofuran             | 250.000 | 222.035 | 11.2  | 75    | 0.02     |
| 30 C  | Chloroform                  | 50.000  | 50.193  | -0.4# | 87    | 0.01     |
| 31 T  | Cyclohexane                 | 50.000  | 46.959  | 6.1   | 81    | 0.02     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.957  | -3.9  | 90    | 0.01     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.385  | 1.2   | 90    | 0.02     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 84    | 0.01     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.757  | -5.5  | 100   | 0.02     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.040  | 7.9   | 82    | 0.01     |
| 37 T  | Ethyl Acetate               | 50.000  | 45.840  | 8.3   | 84    | 0.02     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 47.805  | 4.4   | 80    | 0.02     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.192  | -0.4  | 85    | 0.02     |
| 40 TM | Benzene                     | 50.000  | 46.073  | 7.9   | 80    | 0.02     |
| 41 T  | Methacrylonitrile           | 50.000  | 45.040  | 9.9   | 77    | 0.01     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.824  | 0.4   | 82    | 0.01     |
| 43 T  | Isopropyl Acetate           | 50.000  | 49.272  | 1.5   | 83    | 0.01     |
| 44 TM | Trichloroethene             | 50.000  | 46.946  | 6.1   | 80    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 48.452  | 3.1#  | 79    | 0.01     |

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 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 14 07:35:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 08 00:02:21 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   | 53.734  | -7.5  | 89    | 0.02     |
| 47 T  | Bromodichloromethane        | 50.000   | 54.982  | -10.0 | 96    | 0.01     |
| 48 T  | Methyl methacrylate         | 50.000   | 47.138  | 5.7   | 80    | 0.02     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 999.905 | 0.0   | 84    | 0.02     |
| 50 S  | Toluene-d8                  | 50.000   | 50.339  | -0.7  | 95    | 0.01     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 240.607 | 3.8   | 81    | 0.01     |
| 52 CM | Toluene                     | 50.000   | 49.618  | 0.8#  | 81    | 0.01     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.973  | -7.9  | 89    | 0.01     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.145  | -2.3  | 85    | 0.01     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.287  | -0.6  | 86    | 0.01     |
| 56 T  | Ethyl methacrylate          | 50.000   | 46.637  | 6.7   | 84    | 0.01     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.659  | -7.3  | 94    | 0.01     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 240.208 | 3.9   | 95    | 0.02     |
| 59 T  | 2-Hexanone                  | 250.000  | 259.169 | -3.7  | 85    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.795  | -3.6  | 84    | 0.01     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.350  | -4.7  | 86    | 0.01     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 55.388  | -10.8 | 97    | 0.01     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 83    | 0.01     |
| 64 T  | Tetrachloroethene           | 50.000   | 55.786  | -11.6 | 88    | 0.01     |
| 65 PM | Chlorobenzene               | 50.000   | 48.461  | 3.1   | 78    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.270  | -4.5  | 84    | 0.01     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.750  | -5.5# | 88    | 0.01     |
| 68 T  | m/p-Xylenes                 | 100.000  | 101.935 | -1.9  | 84    | 0.01     |
| 69 T  | o-Xylene                    | 50.000   | 50.843  | -1.7  | 84    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.740  | -3.5  | 84    | 0.01     |
| 71 P  | Bromoform                   | 50.000   | 46.363  | 7.3   | 80    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 84    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.343  | -2.7  | 91    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 51.624  | -3.2  | 83    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.544  | -3.1  | 81    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 50.000  | 0.0   | 83    | 0.01     |
| 77 T  | Bromobenzene                | 50.000   | 50.722  | -1.4  | 82    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.003  | -0.0  | 80    | 0.01     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.768  | -3.5  | 80    | 0.01     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.449  | -2.9  | 88    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 44.385  | 11.2  | 78    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.809  | -3.6  | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.478  | -3.0  | 78    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.540  | -5.1  | 81    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.314  | -2.6  | 82    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.075  | -6.2  | 82    | 0.01     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.290  | -6.6  | 84    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.254  | 1.5   | 82    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.532  | -1.1  | 78    | 0.01     |

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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) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 53.393 | -6.8  | 87    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 51.322 | -2.6  | 79    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.301 | -4.6  | 85    | 0.01     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 47.959 | 4.1   | 86    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 54.580 | -9.2  | 89    | 0.01     |
| 95 T | Naphthalene                 | 50.000 | 48.397 | 3.2   | 85    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 56.766 | -13.5 | 88    | 0.00     |

(#) = Out of Range

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