

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081519\  
 Data File : VD063602.D  
 Acq On : 15 Aug 2019 13:28  
 Operator : JC/SY  
 Sample : VSTDCCC050  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 15 15:49:37 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080919S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 10 06:42:47 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   | 103   | -0.03    |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 51.361  | -2.7  | 107   | -0.01    |
| 3 P   | Chloromethane               | 50.000  | 50.137  | -0.3  | 110   | -0.01    |
| 4 C   | Vinyl Chloride              | 50.000  | 53.283  | -6.6# | 107   | -0.02    |
| 5 T   | Bromomethane                | 50.000  | 50.626  | -1.3  | 97    | -0.02    |
| 6 T   | Chloroethane                | 50.000  | 51.252  | -2.5  | 102   | -0.01    |
| 7 T   | Trichlorofluoromethane      | 50.000  | 53.636  | -7.3  | 106   | -0.01    |
| 8 T   | Diethyl Ether               | 50.000  | 51.138  | -2.3  | 105   | -0.02    |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.958  | -1.9  | 104   | -0.02    |
| 10 T  | Methyl Iodide               | 50.000  | 52.394  | -4.8  | 102   | -0.02    |
| 11 T  | Tert butyl alcohol          | 250.000 | 291.008 | -16.4 | 116   | -0.03    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.200  | -0.4# | 97    | -0.02    |
| 13 T  | Acrolein                    | 250.000 | 238.885 | 4.4   | 107   | -0.02    |
| 14 T  | Allyl chloride              | 50.000  | 52.825  | -5.7  | 109   | -0.02    |
| 15 T  | Acrylonitrile               | 250.000 | 281.952 | -12.8 | 113   | -0.03    |
| 16 T  | Acetone                     | 250.000 | 297.696 | -19.1 | 109   | -0.02    |
| 17 T  | Carbon Disulfide            | 50.000  | 52.671  | -5.3  | 109   | -0.02    |
| 18 T  | Methyl Acetate              | 50.000  | 45.607  | 8.8   | 102   | -0.02    |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 57.640  | -15.3 | 116   | -0.02    |
| 20 T  | Methylene Chloride          | 50.000  | 48.302  | 3.4   | 105   | -0.03    |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 56.272  | -12.5 | 109   | -0.03    |
| 22 T  | Diisopropyl ether           | 50.000  | 52.657  | -5.3  | 107   | -0.02    |
| 23 T  | Vinyl Acetate               | 250.000 | 274.066 | -9.6  | 111   | -0.03    |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 53.605  | -7.2  | 110   | -0.03    |
| 25 T  | 2-Butanone                  | 250.000 | 275.261 | -10.1 | 110   | -0.03    |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 57.122  | -14.2 | 116   | -0.03    |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 53.995  | -8.0  | 108   | -0.03    |
| 28 T  | Bromochloromethane          | 50.000  | 49.578  | 0.8   | 98    | -0.03    |
| 29    | Tetrahydrofuran             | 250.000 | 275.365 | -10.1 | 111   | -0.03    |
| 30 C  | Chloroform                  | 50.000  | 52.138  | -4.3# | 107   | -0.03    |
| 31 T  | Cyclohexane                 | 50.000  | 54.341  | -8.7  | 106   | -0.03    |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.913  | -7.8  | 109   | -0.03    |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 45.499  | 9.0   | 82    | -0.03    |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 110   | -0.03    |
| 35 S  | Dibromofluoromethane        | 50.000  | 47.977  | 4.0   | 90    | -0.02    |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.558  | -5.1  | 109   | -0.03    |
| 37 T  | Ethyl Acetate               | 50.000  | 51.455  | -2.9  | 109   | -0.04    |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.371  | -4.7  | 102   | -0.02    |
| 39 T  | Methylcyclohexane           | 50.000  | 49.108  | 1.8   | 98    | -0.02    |
| 40 TM | Benzene                     | 50.000  | 47.721  | 4.6   | 98    | -0.03    |
| 41 T  | Methacrylonitrile           | 50.000  | 53.284  | -6.6  | 110   | -0.03    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.084  | 1.8   | 102   | -0.03    |
| 43 T  | Isopropyl Acetate           | 50.000  | 53.331  | -6.7  | 113   | -0.03    |
| 44 TM | Trichloroethene             | 50.000  | 53.906  | -7.8  | 119   | -0.02    |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.746  | -7.5# | 115   | -0.02    |

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 ALS Vial : 11 Sample Multiplier: 1

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 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Sat Aug 10 06:42:47 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   | 49.935  | 0.1    | 103   | -0.02    |
| 47 T  | Bromodichloromethane        | 50.000   | 51.997  | -4.0   | 112   | -0.02    |
| 48 T  | Methyl methacrylate         | 50.000   | 47.140  | 5.7    | 100   | -0.02    |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 934.026 | 6.6    | 100   | -0.03    |
| 50 S  | Toluene-d8                  | 50.000   | 47.815  | 4.4    | 87    | -0.02    |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 263.502 | -5.4   | 117   | -0.02    |
| 52 CM | Toluene                     | 50.000   | 50.407  | -0.8#  | 111   | -0.03    |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 54.155  | -8.3   | 113   | -0.02    |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.649  | -1.3   | 104   | -0.02    |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.819  | -5.6   | 114   | -0.03    |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.063  | -2.1   | 105   | -0.02    |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.443  | -0.9   | 106   | -0.02    |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 246.607 | 1.4    | 94    | -0.02    |
| 59 T  | 2-Hexanone                  | 250.000  | 279.064 | -11.6  | 110   | -0.02    |
| 60 T  | Dibromochloromethane        | 50.000   | 53.226  | -6.5   | 111   | -0.02    |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.343  | -2.7   | 110   | -0.02    |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 44.875  | 10.3   | 91    | -0.01    |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0    | 102   | -0.02    |
| 64 T  | Tetrachloroethene           | 50.000   | 51.934  | -3.9   | 105   | -0.03    |
| 65 PM | Chlorobenzene               | 50.000   | 55.836  | -11.7  | 114   | -0.02    |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.066  | -8.1   | 109   | -0.02    |
| 67 C  | Ethyl Benzene               | 50.000   | 53.591  | -7.2#  | 108   | -0.02    |
| 68 T  | m/p-Xylenes                 | 100.000  | 110.467 | -10.5  | 114   | -0.02    |
| 69 T  | o-Xylene                    | 50.000   | 53.757  | -7.5   | 108   | -0.01    |
| 70 T  | Styrene                     | 50.000   | 52.236  | -4.5   | 108   | -0.01    |
| 71 P  | Bromoform                   | 50.000   | 56.352  | -12.7  | 111   | -0.02    |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0    | 96    | -0.01    |
| 73 T  | Isopropylbenzene            | 50.000   | 54.252  | -8.5   | 99    | -0.01    |
| 74 T  | N-amyl acetate              | 50.000   | 59.811  | -19.6  | 110   | -0.02    |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 57.557  | -15.1  | 107   | -0.01    |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 57.616  | -15.2  | 107   | -0.01    |
| 77 T  | Bromobenzene                | 50.000   | 58.236  | -16.5  | 111   | -0.01    |
| 78 T  | n-propylbenzene             | 50.000   | 56.018  | -12.0  | 107   | -0.02    |
| 79 T  | 2-Chlorotoluene             | 50.000   | 56.159  | -12.3  | 109   | -0.01    |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.803  | -5.6   | 99    | -0.02    |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 60.396  | -20.8# | 112   | -0.01    |
| 82 T  | 4-Chlorotoluene             | 50.000   | 52.370  | -4.7   | 99    | -0.01    |
| 83 T  | tert-Butylbenzene           | 50.000   | 60.122  | -20.2# | 113   | -0.01    |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 57.260  | -14.5  | 106   | -0.02    |
| 85 T  | sec-Butylbenzene            | 50.000   | 58.734  | -17.5  | 117   | -0.02    |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.668  | -7.3   | 98    | -0.01    |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 52.939  | -5.9   | 101   | -0.01    |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 53.710  | -7.4   | 102   | -0.01    |
| 89 T  | n-Butylbenzene              | 50.000   | 56.127  | -12.3  | 110   | -0.02    |

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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 | 56.682 | -13.4 | 108   | -0.01    |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 55.891 | -11.8 | 108   | -0.02    |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 58.551 | -17.1 | 113   | -0.02    |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 57.136 | -14.3 | 103   | -0.01    |
| 94 T | Hexachlorobutadiene         | 50.000 | 56.363 | -12.7 | 104   | -0.01    |
| 95 T | Naphthalene                 | 50.000 | 54.355 | -8.7  | 104   | -0.01    |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 57.635 | -15.3 | 111   | -0.01    |

(#) = Out of Range

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