

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX042120\  
 Data File : VX015811.D  
 Acq On : 21 Apr 2020 21:56  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 22 06:41:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 09:35:51 2020  
 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    | 98    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 38.412  | 23.2#  | 93    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 36.132  | 27.7#  | 66    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.644  | 6.7#   | 96    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 27.149  | 45.7#  | 54    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 46.893  | 6.2    | 92    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.913  | 6.2    | 108   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.379  | 3.2    | 86    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.500  | -1.0   | 123   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 40.630  | 18.7   | 67    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 206.719 | 17.3   | 72    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.209  | 1.6#   | 100   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 302.958 | -21.2# | 108   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.809  | 8.4    | 82    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 258.782 | -3.5   | 86    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 237.866 | 4.9    | 81    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 41.025  | 18.0   | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 58.099  | -16.2  | 97    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.718  | -1.4   | 86    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.970  | 2.1    | 88    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.352  | 3.3    | 91    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.603  | -1.2   | 87    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 242.686 | 2.9    | 80    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.762  | 2.5    | 90    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 242.768 | 2.9    | 82    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 46.475  | 7.0    | 91    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.533  | -3.1   | 92    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 44.118  | 11.8   | 75    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 244.908 | 2.0    | 82    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.947  | -1.9#  | 91    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.842  | 4.3    | 113   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.027  | -0.1   | 98    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 43.085  | 13.8   | 77    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 86    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.579  | 2.8    | 84    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.805  | -1.6   | 100   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.353  | -0.7   | 81    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 47.870  | 4.3    | 96    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.250  | -2.5   | 124   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.299  | -6.6   | 92    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.194  | -4.4   | 82    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.203  | 1.6    | 80    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.076  | -2.2   | 82    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 68.648  | -37.3# | 126   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.232  | -6.5#  | 90    | 0.00     |

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 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 22 06:41:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 09:35:51 2020  
 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   | 53.803  | -7.6   | 89    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.342  | -2.7   | 84    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.900  | -1.8   | 82    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 908.386 | 9.2    | 73    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.930  | 0.1    | 90    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 268.401 | -7.4   | 85    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 54.971  | -9.9#  | 95    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.279  | -4.6   | 87    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.929  | -5.9   | 87    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 56.960  | -13.9  | 93    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.487  | -9.0   | 88    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.629  | -7.3   | 90    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 240.633 | 3.7    | 77    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 269.269 | -7.7   | 85    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.514  | -5.0   | 84    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 54.574  | -9.1   | 88    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.361  | -2.7   | 91    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0    | 86    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 95.432  | -90.9# | 188   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 54.684  | -9.4   | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 55.003  | -10.0  | 94    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 54.207  | -8.4#  | 98    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 108.805 | -8.8   | 98    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 54.730  | -9.5   | 96    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.286  | -10.6  | 96    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 50.653  | -1.3   | 84    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0    | 86    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 56.140  | -12.3  | 105   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 54.030  | -8.1   | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 39.236  | 21.5#  | 66    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 54.343  | -8.7   | 88    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 57.754  | -15.5  | 98    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 55.190  | -10.4  | 102   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 54.483  | -9.0   | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 56.151  | -12.3  | 101   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.073  | -4.1   | 84    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 55.682  | -11.4  | 98    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.773  | -3.5   | 96    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 56.209  | -12.4  | 99    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 57.354  | -14.7  | 113   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 57.540  | -15.1  | 108   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 57.040  | -14.1  | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 56.298  | -12.6  | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 55.839  | -11.7  | 108   | 0.00     |

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ALS Vial : 31 Sample Multiplier: 1

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MSVOA\_X  
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Quant Title : SW846 8260  
QLast Update : Fri Mar 27 09:35:51 2020  
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 | 29.717 | 40.6# | 55    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 57.567 | -15.1 | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 45.339 | 9.3   | 79    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 57.632 | -15.3 | 102   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 51.467 | -2.9  | 109   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 57.184 | -14.4 | 94    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 57.988 | -16.0 | 97    | 0.00     |

(#) = Out of Range

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