

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX030819\  
 Data File : VX007933.D  
 Acq On : 08 Mar 2019 16:02  
 Operator : JC/SP  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: Mar 09 04:39:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X030819W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Mar 08 12:01:36 2019  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | Amount   | Calc.   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|----------|---------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 30.000   | 30.000  | 0.0   | 99    | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 50.000   | 19.537  | 60.9# | 40    | 0.00     |
| 3 M  | Chloromethane               | 50.000   | 19.522  | 61.0# | 41    | 0.00     |
| 4 M  | Vinyl Chloride              | 50.000   | 19.288  | 61.4# | 41    | 0.00     |
| 5 M  | Bromomethane                | 50.000   | 20.207  | 59.6# | 46    | 0.00     |
| 6 M  | Chloroethane                | 50.000   | 18.945  | 62.1# | 41    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 50.000   | 18.926  | 62.1# | 41    | 0.00     |
| 8 T  | Diethyl Ether               | 50.000   | 20.688  | 58.6# | 42    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 50.000   | 19.702  | 60.6# | 41    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 50.000   | 20.472  | 59.1# | 42    | 0.00     |
| 11   | Methyl Iodide               | 50.000   | 19.762  | 60.5# | 39    | 0.00     |
| 12   | Methyl Acetate              | 50.000   | 19.818  | 60.4# | 42    | 0.00     |
| 13 M | Acrolein                    | 250.000  | 92.274  | 63.1# | 41    | 0.00     |
| 14 M | Acrylonitrile               | 250.000  | 104.011 | 58.4# | 42    | 0.00     |
| 15 M | Acetone                     | 250.000  | 80.997  | 67.6# | 32    | 0.00     |
| 16 M | Carbon Disulfide            | 50.000   | 20.221  | 59.6# | 41    | 0.00     |
| 17   | Allyl chloride              | 50.000   | 20.150  | 59.7# | 41    | 0.00     |
| 18 M | Methylene Chloride          | 50.000   | 20.207  | 59.6# | 42    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 50.000   | 20.479  | 59.0# | 42    | 0.00     |
| 20 T | Diisopropyl ether           | 50.000   | 20.889  | 58.2# | 43    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 50.000   | 20.240  | 59.5# | 42    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 50.000   | 20.355  | 59.3# | 42    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 250.000  | 105.976 | 57.6# | 43    | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 50.000   | 20.544  | 58.9# | 42    | 0.00     |
| 25 M | Chloroform                  | 50.000   | 20.460  | 59.1# | 43    | 0.00     |
| 26   | Cyclohexane                 | 50.000   | 20.274  | 59.5# | 41    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000   | 30.140  | -0.5  | 102   | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000   | 30.000  | 0.0   | 99    | 0.00     |
| 29   | 1,1-Dichloropropene         | 50.000   | 20.408  | 59.2# | 41    | 0.00     |
| 30 M | 2-Butanone                  | 250.000  | 98.780  | 60.5# | 39    | 0.00     |
| 31   | 2,2-Dichloropropane         | 50.000   | 18.858  | 62.3# | 38    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 50.000   | 20.522  | 59.0# | 42    | 0.00     |
| 33 M | Carbon Tetrachloride        | 50.000   | 20.138  | 59.7# | 41    | 0.00     |
| 34 M | Benzene                     | 50.000   | 20.797  | 58.4# | 42    | 0.00     |
| 35   | Methacrylonitrile           | 50.000   | 21.093  | 57.8# | 42    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 50.000   | 20.718  | 58.6# | 43    | 0.00     |
| 37 M | Trichloroethene             | 50.000   | 20.559  | 58.9# | 42    | 0.00     |
| 38   | Methylcyclohexane           | 50.000   | 19.822  | 60.4# | 40    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 50.000   | 20.935  | 58.1# | 42    | 0.00     |
| 40   | Dibromomethane              | 50.000   | 20.819  | 58.4# | 42    | 0.00     |
| 41 M | Bromodichloromethane        | 50.000   | 20.248  | 59.5# | 41    | 0.00     |
| 42 M | Vinyl Acetate               | 250.000  | 106.256 | 57.5# | 42    | 0.00     |
| 43   | Ethyl Acetate               | 50.000   | 21.171  | 57.7# | 43    | 0.00     |
| 44   | Isopropyl Acetate           | 50.000   | 20.859  | 58.3# | 41    | 0.00     |
| 45 T | 1,4-Dioxane                 | 1000.000 | 427.794 | 57.2# | 42    | 0.00     |

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 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: Mar 09 04:39:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X030819W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Mar 08 12:01:36 2019  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|---------|---------|-------|-------|----------|
| 46   | Methyl methacrylate         | 50.000  | 20.687  | 58.6# | 41    | 0.00     |
| 47   | n-amyl Acetate              | 50.000  | 20.211  | 59.6# | 40    | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 50.000  | 19.458  | 61.1# | 38    | 0.00     |
| 49 T | cis-1,3-Dichloropropene     | 50.000  | 19.959  | 60.1# | 39    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 50.000  | 20.738  | 58.5# | 42    | 0.00     |
| 51   | Ethyl methacrylate          | 50.000  | 20.596  | 58.8# | 40    | 0.00     |
| 52   | 1,3-Dichloropropane         | 50.000  | 20.862  | 58.3# | 42    | 0.00     |
| 53 M | Dibromochloromethane        | 50.000  | 20.243  | 59.5# | 40    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 50.000  | 20.780  | 58.4# | 42    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 250.000 | 99.092  | 60.4# | 40    | 0.00     |
| 56 M | Bromoform                   | 50.000  | 19.419  | 61.2# | 38    | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000  | 0.0   | 98    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 250.000 | 108.369 | 56.7# | 42    | 0.00     |
| 59 M | 2-Hexanone                  | 250.000 | 103.905 | 58.4# | 41    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 30.036  | -0.1  | 98    | 0.00     |
| 61 M | Tetrachloroethene           | 50.000  | 20.894  | 58.2# | 42    | 0.00     |
| 62 M | Toluene                     | 50.000  | 20.607  | 58.8# | 41    | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 30.556  | -1.9  | 99    | 0.00     |
| 64 M | Chlorobenzene               | 50.000  | 20.262  | 59.5# | 41    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 50.000  | 20.769  | 58.5# | 41    | 0.00     |
| 66 M | Ethyl Benzene               | 50.000  | 20.127  | 59.7# | 40    | 0.00     |
| 67 M | m/p-Xylenes                 | 100.000 | 40.715  | 59.3# | 40    | 0.00     |
| 68 M | o-Xylene                    | 50.000  | 20.401  | 59.2# | 40    | 0.00     |
| 69 M | Styrene                     | 50.000  | 20.136  | 59.7# | 39    | 0.00     |
| 70   | Isopropylbenzene            | 50.000  | 20.349  | 59.3# | 40    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 50.000  | 20.921  | 58.2# | 42    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 50.000  | 21.043  | 57.9# | 41    | 0.00     |
| 73   | Bromobenzene                | 50.000  | 20.161  | 59.7# | 40    | 0.00     |
| 74   | n-propylbenzene             | 50.000  | 19.964  | 60.1# | 39    | 0.00     |
| 75   | 2-Chlorotoluene             | 50.000  | 20.183  | 59.6# | 40    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 50.000  | 20.302  | 59.4# | 40    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 50.000  | 18.345  | 63.3# | 35    | 0.00     |
| 78   | 4-Chlorotoluene             | 50.000  | 20.227  | 59.5# | 40    | 0.00     |
| 79   | tert-butylbenzene           | 50.000  | 19.951  | 60.1# | 39    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 50.000  | 20.226  | 59.5# | 40    | 0.00     |
| 81   | sec-Butylbenzene            | 50.000  | 19.907  | 60.2# | 39    | 0.00     |
| 82   | p-Isopropyltoluene          | 50.000  | 19.951  | 60.1# | 39    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 50.000  | 19.789  | 60.4# | 40    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 50.000  | 19.719  | 60.6# | 40    | 0.00     |
| 85   | n-Butylbenzene              | 50.000  | 19.013  | 62.0# | 37    | 0.00     |
| 86 T | Hexachloroethane            | 50.000  | 19.427  | 61.1# | 38    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 50.000  | 20.291  | 59.4# | 41    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 50.000  | 20.139  | 59.7# | 40    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 50.000  | 19.084  | 61.8# | 39    | 0.00     |
| 90   | Hexachlorobutadiene         | 50.000  | 19.051  | 61.9# | 38    | 0.00     |

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Instrument :  
MSVOA\_X  
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Quant Time: Mar 09 04:39:29 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X030819W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Mar 08 12:01:36 2019  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound               | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|------------------------|--------|--------|-------|-------|----------|
| 91 M | Naphthalene            | 50.000 | 20.148 | 59.7# | 40    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene | 50.000 | 19.578 | 60.8# | 39    | 0.00     |

(#) = Out of Range

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