

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX070220\  
 Data File : VX017140.D  
 Acq On : 02 Jul 2020 11:50  
 Operator : JC/SP  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: Jul 03 01:00:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X062520W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Jun 26 09:03:25 2020  
 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   | 117   | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 22.232  | -11.2 | 151   | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 16.745  | 16.3  | 99    | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 16.106  | 19.5  | 97    | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 15.632  | 21.8  | 88    | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 16.210  | 18.9  | 98    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 17.380  | 13.1  | 107   | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 15.906  | 20.5  | 97    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 17.832  | 10.8  | 110   | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 17.127  | 14.4  | 104   | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 17.604  | 12.0  | 123   | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 17.378  | 13.1  | 106   | 0.00     |
| 13 M | Acrolein                    | 100.000 | 84.630  | 15.4  | 106   | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 83.998  | 16.0  | 100   | 0.00     |
| 15 M | Acetone                     | 100.000 | 73.973  | 26.0  | 90    | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 16.979  | 15.1  | 104   | 0.00     |
| 17   | Allyl chloride              | 20.000  | 17.141  | 14.3  | 101   | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 17.686  | 11.6  | 108   | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 18.178  | 9.1   | 111   | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 17.405  | 13.0  | 106   | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 17.304  | 13.5  | 104   | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 17.940  | 10.3  | 109   | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 76.836  | 23.2  | 92    | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 17.957  | 10.2  | 109   | 0.00     |
| 25 M | Chloroform                  | 20.000  | 18.269  | 8.7   | 111   | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 16.998  | 15.0  | 103   | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 27.745  | 7.5   | 108   | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0   | 112   | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 19.459  | 2.7   | 113   | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 86.704  | 13.3  | 98    | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 20.359  | -1.8  | 116   | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 19.659  | 1.7   | 114   | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 20.702  | -3.5  | 120   | 0.00     |
| 34 M | Benzene                     | 20.000  | 18.980  | 5.1   | 109   | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 17.831  | 10.8  | 102   | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 18.966  | 5.2   | 109   | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 21.072  | -5.4  | 120   | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 18.883  | 5.6   | 112   | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 18.970  | 5.2   | 111   | 0.00     |
| 40   | Dibromomethane              | 20.000  | 19.052  | 4.7   | 110   | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 19.351  | 3.2   | 111   | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 90.293  | 9.7   | 104   | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 17.473  | 12.6  | 100   | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 17.358  | 13.2  | 101   | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 330.095 | 17.5  | 92    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX070220\  
 Data File : VX017140.D  
 Acq On : 02 Jul 2020 11:50  
 Operator : JC/SP  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: Jul 03 01:00:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X062520W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Jun 26 09:03:25 2020  
 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         | 20.000  | 17.922 | 10.4  | 104   | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 16.645 | 16.8  | 101   | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 18.702 | 6.5   | 112   | 0.00     |
| 49 T | cis-1,3-Dichloropropene     | 20.000  | 19.234 | 3.8   | 111   | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 19.724 | 1.4   | 115   | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 18.250 | 8.8   | 107   | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 19.325 | 3.4   | 108   | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 20.602 | -3.0  | 122   | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 20.188 | -0.9  | 118   | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 86.589 | 13.4  | 101   | 0.00     |
| 56 M | Bromoform                   | 20.000  | 22.301 | -11.5 | 136   | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000 | 0.0   | 116   | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 86.213 | 13.8  | 102   | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 86.493 | 13.5  | 103   | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 29.951 | 0.2   | 119   | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 22.027 | -10.1 | 134   | 0.00     |
| 62 M | Toluene                     | 20.000  | 18.480 | 7.6   | 110   | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 29.300 | 2.3   | 113   | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 19.137 | 4.3   | 117   | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 20.532 | -2.7  | 123   | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 18.623 | 6.9   | 113   | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 38.775 | 3.1   | 119   | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 18.731 | 6.3   | 114   | 0.00     |
| 69 M | Styrene                     | 20.000  | 18.934 | 5.3   | 119   | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 18.980 | 5.1   | 118   | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 18.019 | 9.9   | 111   | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 18.693 | 6.5   | 111   | 0.00     |
| 73   | Bromobenzene                | 20.000  | 20.528 | -2.6  | 124   | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 18.684 | 6.6   | 116   | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 19.167 | 4.2   | 120   | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 19.567 | 2.2   | 122   | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 16.641 | 16.8  | 105   | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 19.440 | 2.8   | 121   | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 19.586 | 2.1   | 121   | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 19.691 | 1.5   | 121   | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 19.049 | 4.8   | 119   | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 20.305 | -1.5  | 126   | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 20.662 | -3.3  | 127   | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 21.242 | -6.2  | 131   | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 18.358 | 8.2   | 115   | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 19.261 | 3.7   | 119   | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 20.760 | -3.8  | 127   | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 18.263 | 8.7   | 111   | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 20.892 | -4.5  | 134   | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 23.758 | -18.8 | 153   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX070220\  
Data File : VX017140.D  
Acq On : 02 Jul 2020 11:50  
Operator : JC/SP  
Sample : VSTDCCC020  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC020

Quant Time: Jul 03 01:00:45 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X062520W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Jun 26 09:03:25 2020  
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            | 20.000 | 19.125 | 4.4  | 118  | 0.00       |
| 92   | 1,2,3-Trichlorobenzene | 20.000 | 21.412 | -7.1 | 134  | 0.00       |

(#) = Out of Range

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