

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121520\  
 Data File : VX020004.D  
 Acq On : 15 Dec 2020 12:00  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 15 13:17:34 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X120420W.M  
 Quant Title : Sw846 8260  
 QLast Update : Fri Dec 04 15:32:53 2020  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 77    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.458 | 0.411 | 10.3  | 65    | 0.00     |
| 3 P   | Chloromethane               | 0.538 | 0.438 | 18.6  | 64    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.568 | 0.534 | 6.0#  | 70    | 0.00     |
| 5 T   | Bromomethane                | 0.188 | 0.180 | 4.3   | 72    | 0.00     |
| 6 T   | Chloroethane                | 0.341 | 0.359 | -5.3  | 77    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.791 | 0.785 | 0.8   | 75    | 0.00     |
| 8 T   | Diethyl Ether               | 0.335 | 0.350 | -4.5  | 81    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.453 | 0.454 | -0.2  | 76    | 0.00     |
| 10 T  | Methyl Iodide               | 0.668 | 0.509 | 23.8  | 58    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.145 | 0.134 | 7.6   | 78    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.458 | 0.435 | 5.0#  | 72    | 0.00     |
| 13 T  | Acrolein                    | 0.073 | 0.055 | 24.7  | 61    | 0.00     |
| 14 T  | Allyl chloride              | 0.774 | 0.796 | -2.8  | 79    | 0.00     |
| 15 T  | Acrylonitrile               | 0.297 | 0.332 | -11.8 | 86    | 0.00     |
| 16 T  | Acetone                     | 0.247 | 0.257 | -4.0  | 79    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.314 | 1.112 | 15.4  | 65    | 0.00     |
| 18 T  | Methyl Acetate              | 0.604 | 0.728 | -20.5 | 91    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.668 | 1.830 | -9.7  | 83    | 0.00     |
| 20 T  | Methylene Chloride          | 0.639 | 0.597 | 6.6   | 79    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.534 | 0.526 | 1.5   | 74    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.564 | 1.747 | -11.7 | 84    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.333 | 1.493 | -12.0 | 83    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.943 | 0.988 | -4.8  | 80    | 0.00     |
| 25 T  | 2-Butanone                  | 0.380 | 0.417 | -9.7  | 84    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.812 | 0.787 | 3.1   | 73    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.625 | 0.630 | -0.8  | 78    | 0.00     |
| 28 T  | Bromochloromethane          | 0.450 | 0.459 | -2.0  | 78    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.245 | 0.270 | -10.2 | 85    | 0.00     |
| 30 C  | Chloroform                  | 0.970 | 1.038 | -7.0# | 81    | 0.00     |
| 31 T  | Cyclohexane                 | 0.817 | 0.795 | 2.7   | 72    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.835 | 0.857 | -2.6  | 77    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.657 | 0.637 | 3.0   | 79    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 75    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.323 | 0.325 | -0.6  | 78    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.452 | 0.453 | -0.2  | 75    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.456 | 0.504 | -10.5 | 85    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.442 | 0.455 | -2.9  | 75    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.531 | 0.536 | -0.9  | 74    | 0.00     |
| 40 TM | Benzene                     | 1.380 | 1.434 | -3.9  | 78    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.250 | 0.284 | -13.6 | 86    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.472 | 0.512 | -8.5  | 81    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.742 | 0.810 | -9.2  | 83    | 0.00     |
| 44 TM | Trichloroethene             | 0.362 | 0.365 | -0.8  | 75    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.345 | 0.376 | -9.0# | 82    | 0.00     |
| 46 T  | Dibromomethane              | 0.233 | 0.252 | -8.2  | 80    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.462 | 0.511 | -10.6 | 81    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 15 13:17:34 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X120420W.M  
 Quant Title : Sw846 8260  
 QLast Update : Fri Dec 04 15:32:53 2020  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 48 T  | Methyl methacrylate         | 0.365 | 0.404 | -10.7 | 83    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.009 | 0.0   | 73    | 0.00     |
| 50 S  | Toluene-d8                  | 1.234 | 1.210 | 1.9   | 75    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.453 | 0.517 | -14.1 | 86    | 0.00     |
| 52 CM | Toluene                     | 0.863 | 0.901 | -4.4# | 78    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.513 | 0.561 | -9.4  | 79    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.557 | 0.614 | -10.2 | 80    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.348 | 0.389 | -11.8 | 84    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.526 | 0.591 | -12.4 | 81    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.594 | 0.652 | -9.8  | 83    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.279 | 0.318 | -14.0 | 85    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.351 | 0.387 | -10.3 | 82    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.353 | 0.396 | -12.2 | 81    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.369 | 0.396 | -7.3  | 81    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.470 | 0.471 | -0.2  | 77    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 77    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.335 | 0.356 | -6.3  | 81    | 0.00     |
| 65 PM | Chlorobenzene               | 0.996 | 1.017 | -2.1  | 78    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.359 | 0.393 | -9.5  | 82    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.768 | 1.834 | -3.7# | 78    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.666 | 0.690 | -3.6  | 77    | 0.00     |
| 69 T  | o-Xylene                    | 0.641 | 0.658 | -2.7  | 77    | 0.00     |
| 70 T  | Styrene                     | 1.082 | 1.162 | -7.4  | 78    | 0.00     |
| 71 P  | Bromoform                   | 0.282 | 0.314 | -11.3 | 80    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 74    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.416 | 3.578 | -4.7  | 77    | 0.00     |
| 74 T  | N-amyl acetate              | 1.369 | 1.481 | -8.2  | 79    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.204 | 1.311 | -8.9  | 81    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.121 | 1.238 | -10.4 | 82    | 0.00     |
| 77 T  | Bromobenzene                | 0.874 | 0.914 | -4.6  | 79    | 0.00     |
| 78 T  | n-propylbenzene             | 3.902 | 4.139 | -6.1  | 77    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.403 | 2.519 | -4.8  | 78    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.883 | 3.061 | -6.2  | 76    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.388 | 0.417 | -7.5  | 77    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.814 | 2.945 | -4.7  | 78    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.828 | 2.975 | -5.2  | 76    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.904 | 3.127 | -7.7  | 77    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.228 | 3.514 | -8.9  | 78    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.959 | 3.232 | -9.2  | 78    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.604 | 1.605 | -0.1  | 74    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.634 | 1.652 | -1.1  | 76    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.621 | 2.847 | -8.6  | 77    | 0.00     |
| 90 T  | Hexachloroethane            | 0.511 | 0.544 | -6.5  | 78    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.564 | 1.649 | -5.4  | 77    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.259 | 0.286 | -10.4 | 83    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.018 | 1.119 | -9.9  | 79    | 0.00     |

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Sample : VSTDCCC050  
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ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X120420W.M  
Quant Title : Sw846 8260  
QLast Update : Fri Dec 04 15:32:53 2020  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|------------------------|-------|-------|-------|-------|----------|
| 94 T | Hexachlorobutadiene    | 0.455 | 0.506 | -11.2 | 85    | 0.00     |
| 95 T | Naphthalene            | 3.301 | 3.735 | -13.1 | 81    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene | 0.995 | 1.122 | -12.8 | 81    | 0.00     |

(#) = Out of Range

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