

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX030521\  
 Data File : VX020991.D  
 Acq On : 03 Mar 2021 11:18  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 04 01:01:08 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022421W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 24 13:50:55 2021  
 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   | 128   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.541 | 0.494 | 8.7   | 114   | 0.00     |
| 3 P   | Chloromethane               | 0.601 | 0.566 | 5.8   | 119   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.692 | 0.657 | 5.1#  | 120   | 0.00     |
| 5 T   | Bromomethane                | 0.249 | 0.249 | 0.0   | 145   | 0.00     |
| 6 T   | Chloroethane                | 0.433 | 0.417 | 3.7   | 122   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.873 | 0.845 | 3.2   | 124   | 0.00     |
| 8 T   | Diethyl Ether               | 0.405 | 0.396 | 2.2   | 127   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.538 | 0.519 | 3.5   | 122   | 0.00     |
| 10 T  | Methyl Iodide               | 0.723 | 0.657 | 9.1   | 109   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.150 | 0.118 | 21.3  | 98    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.560 | 0.521 | 7.0#  | 118   | 0.00     |
| 13 T  | Acrolein                    | 0.093 | 0.098 | -5.4  | 138   | 0.00     |
| 14 T  | Allyl chloride              | 0.914 | 0.838 | 8.3   | 115   | 0.00     |
| 15 T  | Acrylonitrile               | 0.321 | 0.295 | 8.1   | 116   | 0.00     |
| 16 T  | Acetone                     | 0.278 | 0.258 | 7.2   | 124   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.594 | 1.462 | 8.3   | 116   | 0.00     |
| 18 T  | Methyl Acetate              | 0.658 | 0.600 | 8.8   | 114   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.999 | 1.923 | 3.8   | 121   | 0.00     |
| 20 T  | Methylene Chloride          | 0.668 | 0.613 | 8.2   | 122   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.629 | 0.587 | 6.7   | 120   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.839 | 1.762 | 4.2   | 121   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.572 | 1.497 | 4.8   | 118   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.083 | 1.056 | 2.5   | 124   | 0.00     |
| 25 T  | 2-Butanone                  | 0.423 | 0.382 | 9.7   | 115   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.984 | 0.894 | 9.1   | 116   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.724 | 0.689 | 4.8   | 122   | 0.00     |
| 28 T  | Bromochloromethane          | 0.463 | 0.453 | 2.2   | 126   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.271 | 0.242 | 10.7  | 114   | 0.00     |
| 30 C  | Chloroform                  | 1.091 | 1.060 | 2.8#  | 123   | 0.00     |
| 31 T  | Cyclohexane                 | 0.978 | 0.938 | 4.1   | 121   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.950 | 0.907 | 4.5   | 121   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.675 | 0.634 | 6.1   | 120   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 117   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.304 | 0.312 | -2.6  | 121   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.475 | 0.498 | -4.8  | 123   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.452 | 0.447 | 1.1   | 114   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.460 | 0.467 | -1.5  | 122   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.596 | 0.629 | -5.5  | 126   | 0.00     |
| 40 TM | Benzene                     | 1.424 | 1.469 | -3.2  | 121   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.254 | 0.255 | -0.4  | 116   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.474 | 0.518 | -9.3  | 127   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.769 | 0.754 | 2.0   | 114   | 0.00     |
| 44 TM | Trichloroethene             | 0.375 | 0.404 | -7.7  | 126   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.357 | 0.381 | -6.7# | 125   | 0.00     |
| 46 T  | Dibromomethane              | 0.240 | 0.254 | -5.8  | 123   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.501 | 0.530 | -5.8  | 124   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.386 | 0.385 | 0.3   | 115   | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

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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 : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.008 | 11.1  | 107   | 0.00     |
| 50 S  | Toluene-d8                  | 1.185 | 1.209 | -2.0  | 121   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.448 | 0.435 | 2.9   | 111   | 0.00     |
| 52 CM | Toluene                     | 0.887 | 0.941 | -6.1# | 124   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.561 | 0.598 | -6.6  | 121   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.615 | 0.648 | -5.4  | 123   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.351 | 0.376 | -7.1  | 125   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.567 | 0.555 | 2.1   | 113   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.601 | 0.644 | -7.2  | 124   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.277 | 0.290 | -4.7  | 117   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.336 | 0.320 | 4.8   | 109   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.370 | 0.408 | -10.3 | 124   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.367 | 0.386 | -5.2  | 123   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.438 | 0.416 | 5.0   | 109   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 121   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.361 | 0.411 | -13.9 | 137   | 0.00     |
| 65 PM | Chlorobenzene               | 1.053 | 1.086 | -3.1  | 122   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.388 | 0.399 | -2.8  | 120   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.909 | 1.961 | -2.7# | 122   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.703 | 0.732 | -4.1  | 124   | 0.00     |
| 69 T  | o-Xylene                    | 0.686 | 0.700 | -2.0  | 120   | 0.00     |
| 70 T  | Styrene                     | 1.176 | 1.199 | -2.0  | 119   | 0.00     |
| 71 P  | Bromoform                   | 0.300 | 0.307 | -2.3  | 123   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 123   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.949 | 3.964 | -0.4  | 126   | 0.00     |
| 74 T  | N-amyl acetate              | 1.599 | 1.438 | 10.1  | 108   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.273 | 1.182 | 7.1   | 114   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.076 | 1.027 | 4.6   | 115   | 0.00     |
| 77 T  | Bromobenzene                | 0.919 | 0.893 | 2.8   | 118   | 0.00     |
| 78 T  | n-propylbenzene             | 4.504 | 4.425 | 1.8   | 120   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.729 | 2.563 | 6.1   | 117   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.286 | 3.196 | 2.7   | 117   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.486 | 0.428 | 11.9  | 106   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.145 | 2.990 | 4.9   | 116   | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.197 | 3.106 | 2.8   | 121   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.336 | 3.299 | 1.1   | 120   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.768 | 3.746 | 0.6   | 119   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.453 | 3.461 | -0.2  | 122   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.645 | 1.696 | -3.1  | 127   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.676 | 1.698 | -1.3  | 125   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.083 | 3.072 | 0.4   | 121   | 0.00     |
| 90 T  | Hexachloroethane            | 0.659 | 0.614 | 6.8   | 113   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.606 | 1.609 | -0.2  | 118   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.292 | 0.267 | 8.6   | 111   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.030 | 1.123 | -9.0  | 129   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.413 | 0.441 | -6.8  | 131   | 0.00     |
| 95 T  | Naphthalene                 | 3.667 | 3.801 | -3.7  | 120   | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 1.023 | 1.107 | -8.2 | 129   | 0.00     |

(#) = Out of Range

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