

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv022020\  
 Data File : VY001712.D  
 Acq On : 20 Feb 2020 10:19  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 21 08:09:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y021720S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 17 12:19:53 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                    | Amount  | Calc.   | %Dev | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0  | 102   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 48.743  | 2.5  | 92    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.838  | 8.3  | 92    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.041  | 7.9# | 92    | 0.01     |
| 5 T   | Bromomethane                | 50.000  | 46.921  | 6.2  | 94    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 45.786  | 8.4  | 93    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.306  | 5.4  | 97    | 0.01     |
| 8 T   | Diethyl Ether               | 50.000  | 44.932  | 10.1 | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 46.038  | 7.9  | 94    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 46.754  | 6.5  | 89    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 203.105 | 18.8 | 88    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 45.389  | 9.2# | 94    | 0.01     |
| 13 T  | Acrolein                    | 250.000 | 244.998 | 2.0  | 106   | 0.01     |
| 14 T  | Allyl chloride              | 50.000  | 46.369  | 7.3  | 94    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 227.273 | 9.1  | 92    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 248.276 | 0.7  | 88    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.747  | 10.5 | 91    | 0.01     |
| 18 T  | Methyl Acetate              | 50.000  | 44.220  | 11.6 | 92    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 45.589  | 8.8  | 94    | 0.01     |
| 20 T  | Methylene Chloride          | 50.000  | 42.100  | 15.8 | 95    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 45.107  | 9.8  | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 45.871  | 8.3  | 94    | 0.01     |
| 23 T  | Vinyl Acetate               | 250.000 | 233.563 | 6.6  | 93    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 45.893  | 8.2  | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 243.724 | 2.5  | 91    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 46.370  | 7.3  | 98    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 45.173  | 9.7  | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 52.374  | -4.7 | 102   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 227.931 | 8.8  | 91    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 45.138  | 9.7# | 94    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 44.395  | 11.2 | 95    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 46.514  | 7.0  | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 47.250  | 5.5  | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0  | 101   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 45.931  | 8.1  | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.881  | 6.2  | 94    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 46.132  | 7.7  | 93    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 47.947  | 4.1  | 95    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.047  | 5.9  | 95    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 46.493  | 7.0  | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 54.703  | -9.4 | 101   | 0.01     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 46.912  | 6.2  | 94    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 47.339  | 5.3  | 92    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 46.893  | 6.2  | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 47.585  | 4.8# | 96    | 0.00     |

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

|       | Compound                    | Amount   | Calc.   | %Dev | Area% | Dev(min) |
|-------|-----------------------------|----------|---------|------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 46.688  | 6.6  | 93    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 47.168  | 5.7  | 94    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 47.145  | 5.7  | 92    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 906.541 | 9.3  | 91    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.263  | 1.5  | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 242.672 | 2.9  | 94    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 47.083  | 5.8# | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 47.683  | 4.6  | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 47.326  | 5.3  | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 47.125  | 5.8  | 93    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 48.030  | 3.9  | 92    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 47.300  | 5.4  | 93    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 230.946 | 7.6  | 100   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 252.200 | -0.9 | 92    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 47.567  | 4.9  | 92    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 47.568  | 4.9  | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 46.207  | 7.6  | 97    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0  | 99    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 46.191  | 7.6  | 93    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 46.787  | 6.4  | 92    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 46.777  | 6.4  | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 47.702  | 4.6# | 94    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 94.984  | 5.0  | 93    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 47.229  | 5.5  | 92    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 47.316  | 5.4  | 91    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 47.408  | 5.2  | 88    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0  | 98    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.190  | 5.6  | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 47.080  | 5.8  | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 46.563  | 6.9  | 89    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 47.892  | 4.2  | 104   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 46.337  | 7.3  | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.586  | 4.8  | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 46.710  | 6.6  | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 47.497  | 5.0  | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.137  | 3.7  | 88    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.222  | 5.6  | 91    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.072  | 3.9  | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 47.473  | 5.1  | 93    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 47.597  | 4.8  | 93    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.575  | 4.8  | 93    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 46.315  | 7.4  | 91    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 46.136  | 7.7  | 92    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 47.732  | 4.5  | 93    | 0.00     |

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

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 47.708 | 4.6  | 92    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 46.503 | 7.0  | 92    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.400 | 5.2  | 92    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 45.446 | 9.1  | 90    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 45.098 | 9.8  | 92    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 45.973 | 8.1  | 89    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 45.281 | 9.4  | 90    | 0.00     |

(#) = Out of Range

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