

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD032620\  
 Data File : VD065532.D  
 Acq On : 26 Mar 2020 19:21  
 Operator : VA/SY  
 Sample : VSTDICV050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ICVVD032620

Quant Time: Mar 27 01:54:39 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D032620S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 01:47:48 2020  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0   | 99    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 49.959  | 0.1   | 105   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 51.725  | -3.5  | 107   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.846  | 8.3#  | 103   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 51.578  | -3.2  | 103   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.478  | 5.0   | 104   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.677  | 4.6   | 104   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.494  | 3.0   | 104   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.765  | 4.5   | 103   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 50.809  | -1.6  | 98    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 259.204 | -3.7  | 110   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.692  | 2.6#  | 105   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 248.730 | 0.5   | 95    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.851  | -1.7  | 107   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 252.659 | -1.1  | 106   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 207.654 | 16.9  | 89    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.248  | 3.5   | 104   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 48.309  | 3.4   | 102   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.790  | -5.6  | 106   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 50.762  | -1.5  | 106   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.551  | 0.9   | 105   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.081  | -6.2  | 106   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 271.662 | -8.7  | 106   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.081  | -0.2  | 107   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 245.861 | 1.7   | 100   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.345  | 3.3   | 102   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.883  | -1.8  | 107   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 47.689  | 4.6   | 99    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 253.577 | -1.4  | 101   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.632  | 0.7#  | 106   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.220  | 3.6   | 104   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.820  | 0.4   | 105   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.529  | -1.1  | 105   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 100   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.641  | -3.3  | 106   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.331  | -0.7  | 104   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.544  | -1.1  | 104   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.456  | 1.1   | 104   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.870  | -5.7  | 105   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.836  | -1.7  | 105   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 49.254  | 1.5   | 106   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.483  | -1.0  | 106   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.213  | -4.4  | 105   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.946  | 0.1   | 105   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.347  | -2.7# | 106   | 0.00     |

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 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D032620S.M  
 Quant Title : SW846 8260  
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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 : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.    | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 51.448   | -2.9  | 106   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.960   | -1.9  | 107   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 52.069   | -4.1  | 103   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1102.114 | -10.2 | 104   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.582   | -5.2  | 103   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 270.251  | -8.1  | 104   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.631   | -3.3# | 104   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.872   | -3.7  | 105   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.559   | -5.1  | 107   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.033   | -0.1  | 104   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 49.023   | 2.0   | 104   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.037   | -2.1  | 105   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 272.230  | -8.9  | 102   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 262.282  | -4.9  | 100   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.782   | -1.6  | 106   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.216   | -0.4  | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 53.219   | -6.4  | 104   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 101   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.886   | 0.2   | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.032   | -2.1  | 107   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.033   | -2.1  | 106   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.177   | -6.4# | 105   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 105.175  | -5.2  | 105   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 54.358   | -8.7  | 107   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.370   | -8.7  | 105   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 50.368   | -0.7  | 104   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 98    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.587   | -9.2  | 105   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 54.764   | -9.5  | 106   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.314   | -0.6  | 103   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.234   | 3.5   | 90    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.812   | -5.6  | 106   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.888   | -7.8  | 103   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.642   | -5.3  | 103   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 54.656   | -9.3  | 105   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.728   | -5.5  | 104   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 52.510   | -5.0  | 105   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.497   | -9.0  | 104   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.652   | -9.3  | 105   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.852   | -7.7  | 104   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.204   | -8.4  | 104   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.426   | -2.9  | 105   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.679   | -1.4  | 104   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.202   | -8.4  | 105   | 0.00     |

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ALS Vial : 11 Sample Multiplier: 1

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MSVOA\_D  
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Quant Title : SW846 8260  
QLast Update : Fri Mar 27 01:47:48 2020  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 50.392 | -0.8 | 105   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 51.552 | -3.1 | 105   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 49.310 | 1.4  | 99    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.863 | -3.7 | 105   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 51.665 | -3.3 | 108   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 48.969 | 2.1  | 105   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.769 | -5.5 | 105   | 0.00     |

(#) = Out of Range

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