

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY043020\  
 Data File : VY002514.D  
 Acq On : 30 Apr 2020 15:44  
 Operator : SY/MD  
 Sample : VSTDIC100  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC100

Manual Integrations  
 APPROVED

MMDadoda  
 5/5/2020 4:31:11 PM

Quant Time: May 04 12:26:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 04 12:07:53 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.81  | 168  | 365642   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 540162   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 493105   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 246147   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |        |         |      |
|---------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.16   | 65  | 310496   | 100.99 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 201.98% |      |
| 35) Dibromofluoromethane  | 7.74   | 113 | 313187   | 101.38 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 202.76% |      |
| 50) Toluene-d8            | 10.19  | 98  | 1228755  | 101.85 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 203.70% |      |
| 62) 4-Bromofluorobenzene  | 12.49  | 95  | 409278   | 99.98  | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 199.96% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.91 | 85  | 313352  | 112.847 | ug/l | 98     |
| 3) Chloromethane              | 2.12 | 50  | 315562  | 106.524 | ug/l | 100    |
| 4) Vinyl Chloride             | 2.26 | 62  | 361745  | 105.753 | ug/l | 99     |
| 5) Bromomethane               | 2.65 | 94  | 245140  | 103.920 | ug/l | 99     |
| 6) Chloroethane               | 2.80 | 64  | 214307  | 104.926 | ug/l | 97     |
| 7) Trichlorofluoromethane     | 3.14 | 101 | 564094  | 106.403 | ug/l | 100    |
| 8) Diethyl Ether              | 3.55 | 74  | 191198  | 107.321 | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.92 | 101 | 334677  | 103.292 | ug/l | 98     |
| 10) Methyl Iodide             | 4.11 | 142 | 498997  | 113.041 | ug/l | 99     |
| 11) Tert butyl alcohol        | 4.99 | 59  | 147691  | 466.931 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 3.89 | 96  | 332216  | 105.544 | ug/l | 99     |
| 13) Acrolein                  | 3.75 | 56  | 127332  | 582.160 | ug/l | 96     |
| 14) Allyl chloride            | 4.50 | 41  | 483810  | 105.494 | ug/l | 99     |
| 15) Acrylonitrile             | 5.19 | 53  | 435553  | 518.424 | ug/l | 100    |
| 16) Acetone                   | 3.97 | 43  | 330920  | 521.556 | ug/l | 99     |
| 17) Carbon Disulfide          | 4.21 | 76  | 1040174 | 109.847 | ug/l | 100    |
| 18) Methyl Acetate            | 4.50 | 43  | 211993  | 99.998  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 5.25 | 73  | 855892  | 104.223 | ug/l | 99     |
| 20) Methylene Chloride        | 4.74 | 84  | 339929  | 95.806  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 5.24 | 96  | 356635  | 103.664 | ug/l | 97     |
| 22) Diisopropyl ether         | 6.14 | 45  | 937127  | 100.989 | ug/l | 97     |
| 23) Vinyl Acetate             | 6.08 | 43  | 3043717 | 521.555 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.04 | 63  | 564398  | 102.810 | ug/l | 100    |
| 25) 2-Butanone                | 7.01 | 43  | 533270  | 513.444 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 7.00 | 77  | 523551  | 100.333 | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 7.01 | 96  | 390228  | 102.512 | ug/l | 99     |
| 28) Bromochloromethane        | 7.36 | 49  | 230517  | 102.486 | ug/l | 99     |
| 29) Tetrahydrofuran           | 7.37 | 42  | 353281  | 514.114 | ug/l | 99     |
| 30) Chloroform                | 7.53 | 83  | 581915  | 101.946 | ug/l | 100    |
| 31) Cyclohexane               | 7.80 | 56  | 547865  | 99.146  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 7.72 | 97  | 553885  | 104.399 | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 7.94 | 75  | 472964  | 104.448 | ug/l | 100    |
| 37) Ethyl Acetate             | 7.10 | 43  | 241119  | 103.620 | ug/l | 100    |
| 38) Carbon Tetrachloride      | 7.92 | 117 | 526372  | 106.473 | ug/l | 99     |

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 Sample : VSTDICC100  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC100

Manual Integrations  
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MMDadoda  
 5/5/2020 4:31:11 PM

Quant Time: May 04 12:26:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 04 12:07:53 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.19  | 83   | 639264   | 106.884  | ug/l   | 99       |
| 40) Benzene                    | 8.18  | 78   | 1364013  | 104.294  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.34  | 41   | 114109m  | 93.812   | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.25  | 62   | 378430   | 103.156  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.29  | 43   | 464389   | 106.453  | ug/l   | 99       |
| 44) Trichloroethene            | 8.96  | 130  | 426345   | 104.312  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.23  | 63   | 326716   | 103.508  | ug/l   | 99       |
| 46) Dibromomethane             | 9.32  | 93   | 189806   | 104.514  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.51  | 83   | 465254   | 105.360  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.30  | 41   | 210869   | 106.809  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.31  | 88   | 49922    | 2076.142 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43   | 1178934  | 524.313  | ug/l   | 100      |
| 52) Toluene                    | 10.25 | 92   | 876634   | 104.296  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 492116   | 106.364  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.94  | 75   | 559084   | 104.526  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.66 | 97   | 272381   | 102.849  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.52 | 69   | 379471   | 107.708  | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 10.80 | 76   | 465394   | 103.624  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.80  | 63   | 942670   | 507.374  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.84 | 43   | 820639   | 530.268  | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.99 | 129  | 354619   | 105.279  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.10 | 107  | 274143   | 104.542  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.73 | 164  | 451033   | 102.947  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.53 | 112  | 963506   | 102.786  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.60 | 131  | 364590   | 104.778  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.60 | 91   | 1715195  | 104.166  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.71 | 106  | 1326371  | 208.187  | ug/l   | 99       |
| 69) o-Xylene                   | 12.03 | 106  | 620551   | 104.026  | ug/l   | 100      |
| 70) Styrene                    | 12.05 | 104  | 1069466  | 104.871  | ug/l   | 100      |
| 71) Bromoform                  | 12.22 | 173  | 228942   | 106.006  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.34 | 105  | 1690716  | 105.983  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.15 | 43   | 409122   | 106.612  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.59 | 83   | 267482   | 105.430  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 235909m  | 107.371  | ug/l   |          |
| 77) Bromobenzene               | 12.62 | 156  | 415980   | 104.370  | ug/l   | 100      |
| 78) n-propylbenzene            | 12.68 | 91   | 1944771  | 105.050  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.77 | 91   | 1070945  | 104.434  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.82 | 105  | 1391863  | 105.256  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.39 | 75   | 116506   | 106.800  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.86 | 91   | 1119563  | 103.934  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.08 | 119  | 1218679  | 105.106  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.13 | 105  | 1379495  | 104.676  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.26 | 105  | 1676582  | 104.206  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.38 | 119  | 1567939  | 104.007  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.38 | 146  | 772755   | 102.441  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.45 | 146  | 764624   | 102.366  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.70 | 91   | 1400744  | 102.067  | ug/l   | 100      |
| 90) Hexachloroethane           | 13.97 | 117  | 289846   | 105.576  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.75 | 146  | 683394   | 101.529  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 47707    | 100.876  | ug/l   | 98       |

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Sample : VSTDICC100  
Misc : 5.00G/5ML/MSVOA Y/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100

Manual Integrations  
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5/5/2020 4:31:11 PM

Quant Time: May 04 12:26:04 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
Quant Title : SW846 8260  
QLast Update : Mon May 04 12:07:53 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|----------------------------|-------|------|----------|---------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.02 | 180  | 480651   | 98.356  | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.12 | 225  | 286547   | 97.686  | ug/l  | 99       |
| 95) Naphthalene            | 15.24 | 128  | 918090   | 102.985 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.43 | 180  | 410102   | 98.854  | ug/l  | 100      |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

