

Data File : VY002675.D  
Acq On : 13 May 2020 11:41  
Operator : SY/MD  
Sample : VY0513SBS01  
Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0513SBS01

Quant Time: May 14 04:02:56 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
Quant Title : SW846 8260  
QLast Update : Mon May 04 12:22:08 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 354297   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 523587   | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 469978   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 241732   | 50.00 | ug/l  | -0.01    |

|                             |        |     |          |       |         |       |
|-----------------------------|--------|-----|----------|-------|---------|-------|
| System Monitoring Compounds |        |     |          |       |         |       |
| 33) 1,2-Dichloroethane-d4   | 8.15   | 65  | 139771   | 46.92 | ug/l    | -0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.84%  |       |
| 35) Dibromofluoromethane    | 7.72   | 113 | 157393   | 52.56 | ug/l    | -0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.12% |       |
| 50) Toluene-d8              | 10.18  | 98  | 619602   | 52.99 | ug/l    | -0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.98% |       |
| 62) 4-Bromofluorobenzene    | 12.48  | 95  | 209815   | 52.88 | ug/l    | -0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.76% |       |

| Target Compounds              |      |     |        |        |      | Qvalue |
|-------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.91 | 85  | 42144  | 15.666 | ug/l | 97     |
| 3) Chloromethane              | 2.12 | 50  | 54313  | 18.921 | ug/l | 99     |
| 4) Vinyl Chloride             | 2.26 | 62  | 61433  | 18.535 | ug/l | 99     |
| 5) Bromomethane               | 2.65 | 94  | 42740  | 18.699 | ug/l | 98     |
| 6) Chloroethane               | 2.80 | 64  | 36505  | 18.445 | ug/l | 95     |
| 7) Trichlorofluoromethane     | 3.13 | 101 | 97008  | 18.884 | ug/l | 99     |
| 8) Diethyl Ether              | 3.54 | 74  | 32622  | 18.897 | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.91 | 101 | 61471  | 19.579 | ug/l | 97     |
| 10) Methyl Iodide             | 4.10 | 142 | 78990  | 18.467 | ug/l | 98     |
| 11) Tert butyl alcohol        | 4.97 | 59  | 25488  | 83.162 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 3.88 | 96  | 59407  | 19.478 | ug/l | 91     |
| 13) Acrolein                  | 3.74 | 56  | 12942  | 61.065 | ug/l | 93     |
| 14) Allyl chloride            | 4.49 | 41  | 89961  | 20.244 | ug/l | 98     |
| 15) Acrylonitrile             | 5.18 | 53  | 72773  | 89.393 | ug/l | 99     |
| 16) Acetone                   | 3.96 | 43  | 48848  | 79.454 | ug/l | 100    |
| 17) Carbon Disulfide          | 4.20 | 76  | 156742 | 17.083 | ug/l | 99     |
| 18) Methyl Acetate            | 4.49 | 43  | 35699  | 17.379 | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 5.23 | 73  | 148657 | 18.682 | ug/l | 97     |
| 20) Methylene Chloride        | 4.72 | 84  | 66466  | 19.333 | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 5.22 | 96  | 66053  | 19.815 | ug/l | 95     |
| 22) Diisopropyl ether         | 6.13 | 45  | 186944 | 20.791 | ug/l | 99     |
| 23) Vinyl Acetate             | 6.07 | 43  | 525246 | 92.885 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.03 | 63  | 110984 | 20.864 | ug/l | 99     |
| 25) 2-Butanone                | 7.00 | 43  | 85914  | 85.369 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 6.99 | 77  | 104864 | 20.739 | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 6.99 | 96  | 76286  | 20.682 | ug/l | 100    |
| 28) Bromochloromethane        | 7.35 | 49  | 44457  | 20.398 | ug/l | 98     |
| 29) Tetrahydrofuran           | 7.35 | 42  | 58240  | 87.468 | ug/l | 99     |
| 30) Chloroform                | 7.52 | 83  | 113736 | 20.563 | ug/l | 99     |
| 31) Cyclohexane               | 7.79 | 56  | 101747 | 19.003 | ug/l | 95     |
| 32) 1,1,1-Trichloroethane     | 7.71 | 97  | 103325 | 20.099 | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 7.93 | 75  | 89749  | 20.447 | ug/l | 100    |
| 37) Ethyl Acetate             | 7.08 | 43  | 40022  | 17.744 | ug/l | 99     |
| 38) Carbon Tetrachloride      | 7.91 | 117 | 96528  | 20.143 | ug/l | 99     |

Data File : VY002675.D  
Acq On : 13 May 2020 11:41  
Operator : SY/MD  
Sample : VY0513SBS01  
Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0513SBS01

Quant Time: May 14 04:02:56 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
Quant Title : SW846 8260  
QLast Update : Mon May 04 12:22:08 2020  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.19  | 83   | 113305   | 19.544  | ug/l   | 100      |
| 40) Benzene                    | 8.17  | 78   | 259553   | 20.474  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.33  | 41   | 22932m   | 18.909  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.25  | 62   | 65231    | 18.344  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.28  | 43   | 75676    | 17.897  | ug/l   | 98       |
| 44) Trichloroethene            | 8.94  | 130  | 83229    | 21.008  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.22  | 63   | 62280    | 20.356  | ug/l   | 96       |
| 46) Dibromomethane             | 9.31  | 93   | 32869    | 18.672  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.50  | 83   | 86458    | 20.199  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.30  | 41   | 34114    | 17.826  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.30  | 88   | 8539     | 366.359 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.07 | 43   | 194800   | 89.377  | ug/l   | 98       |
| 52) Toluene                    | 10.25 | 92   | 167937   | 20.613  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 87019    | 19.403  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.93  | 75   | 105296   | 20.309  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.64 | 97   | 50548    | 19.691  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.51 | 69   | 64802    | 18.976  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.79 | 76   | 84892    | 19.500  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.78  | 63   | 172176   | 95.604  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.83 | 43   | 131584   | 87.717  | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.99 | 129  | 64990    | 19.905  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.09 | 107  | 48036    | 18.898  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.72 | 164  | 94183    | 22.555  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.52 | 112  | 188387   | 21.086  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.59 | 131  | 69984    | 21.102  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.60 | 91   | 332295   | 21.174  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.70 | 106  | 256817   | 42.294  | ug/l   | 100      |
| 69) o-Xylene                   | 12.03 | 106  | 121180   | 21.314  | ug/l   | 98       |
| 70) Styrene                    | 12.05 | 104  | 208015   | 21.402  | ug/l   | 98       |
| 71) Bromoform                  | 12.20 | 173  | 39449    | 19.165  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.33 | 105  | 338580   | 21.612  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.14 | 43   | 71142    | 18.877  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 43796    | 17.578  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 39344m   | 18.315  | ug/l   |          |
| 77) Bromobenzene               | 12.61 | 156  | 81183    | 20.741  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.67 | 91   | 393193   | 21.627  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.75 | 91   | 216858   | 21.533  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 280453   | 21.596  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 19770    | 18.454  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.86 | 91   | 223285   | 21.107  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.08 | 119  | 248618   | 21.834  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 276921   | 21.396  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.25 | 105  | 346884   | 21.954  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.37 | 119  | 322905   | 21.811  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.36 | 146  | 158216   | 21.357  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.45 | 146  | 156676   | 21.359  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.70 | 91   | 296197   | 21.977  | ug/l   | 100      |
| 90) Hexachloroethane           | 13.96 | 117  | 59784    | 22.174  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.74 | 146  | 139375   | 21.084  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 8119     | 17.481  | ug/l   | 98       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_Y\DATA\VY051320\  
Quantitation Report (QT Reviewed)

Data File : VY002675.D  
Acq On : 13 May 2020 11:41  
Operator : SY/MD  
Sample : VY0513SBSD01  
Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0513SBSD01

Quant Time: May 14 04:02:56 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
Quant Title : SW846 8260  
QLast Update : Mon May 04 12:22:08 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.01 | 180  | 103731   | 21.614 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.11 | 225  | 64347    | 22.337 | ug/l  | 99       |
| 95) Naphthalene            | 15.23 | 128  | 171176   | 19.552 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.42 | 180  | 85253    | 20.925 | ug/l  | 99       |

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

Data File : VY002675.D

```
Acq On       : 13 May 2020   11:41
Operator     : SY/MD
Sample       : VY0513BSD01
Misc         : 5.00G/5ML/MSV0A_Y/SOIL
ALS Vial     : 5      Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_Y  
**ClientSampleId :**  
VY0513SBSD01

Quant Time: May 14 04:02:56 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
Quant Title : SW846 8260  
QLast Update : Mon May 04 12:22:08 2020  
Response via : Initial Calibration

