

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092320\  
 Data File : VD066826.D  
 Acq On : 23 Sep 2020 11:22  
 Operator : VA/SY  
 Sample : VD0923SBS01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0923SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 9/24/2020 1:36:45 PM

Quant Time: Sep 23 15:54:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D092220S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 23 01:34:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.97  | 168  | 402125   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 644176   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 583706   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 271330   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 199682   | 50.73 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.46% |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 202982   | 49.53 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.06%  |      |
| 50) Toluene-d8            | 10.33  | 98  | 737901   | 52.85 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.70% |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 247441   | 51.76 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.52% |      |

## Target Compounds

|                               |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 77736  | 24.790 | ug/l   | 89     |
| 3) Chloromethane              | 2.21 | 50  | 79088  | 21.406 | ug/l   | 92     |
| 4) Vinyl Chloride             | 2.35 | 62  | 85044  | 23.299 | ug/l   | 99     |
| 5) Bromomethane               | 2.76 | 94  | 51802  | 20.191 | ug/l   | 91     |
| 6) Chloroethane               | 2.92 | 64  | 47593  | 20.997 | ug/l # | 85     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 160395 | 21.396 | ug/l   | 96     |
| 8) Diethyl Ether              | 3.70 | 74  | 36399  | 19.126 | ug/l   | 92     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101 | 94153  | 21.660 | ug/l   | 99     |
| 10) Methyl Iodide             | 4.30 | 142 | 91335  | 23.811 | ug/l   | 97     |
| 11) Tert butyl alcohol        | 5.21 | 59  | 20505  | 47.515 | ug/l # | 91     |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 80676  | 20.488 | ug/l   | 94     |
| 13) Acrolein                  | 3.91 | 56  | 28296  | 97.456 | ug/l   | 91     |
| 14) Allyl chloride            | 4.71 | 41  | 117774 | 20.369 | ug/l   | 99     |
| 15) Acrylonitrile             | 5.41 | 53  | 81039  | 96.088 | ug/l   | 99     |
| 16) Acetone                   | 4.15 | 43  | 67076  | 80.338 | ug/l   | 100    |
| 17) Carbon Disulfide          | 4.40 | 76  | 264588 | 21.978 | ug/l   | 99     |
| 18) Methyl Acetate            | 4.71 | 43  | 37527  | 17.808 | ug/l   | 94     |
| 19) Methyl tert-butyl Ether   | 5.47 | 73  | 162072 | 18.953 | ug/l   | 96     |
| 20) Methylene Chloride        | 4.96 | 84  | 103647 | 19.444 | ug/l   | 92     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 96958  | 21.265 | ug/l   | 91     |
| 22) Diisopropyl ether         | 6.36 | 45  | 248338 | 20.889 | ug/l   | 96     |
| 23) Vinyl Acetate             | 6.30 | 43  | 567394 | 89.636 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.26 | 63  | 167395 | 21.047 | ug/l   | 98     |
| 25) 2-Butanone                | 7.21 | 43  | 85717  | 85.430 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 7.20 | 77  | 150344 | 20.624 | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 102514 | 20.694 | ug/l   | 98     |
| 28) Bromochloromethane        | 7.54 | 49  | 65851  | 20.042 | ug/l # | 98     |
| 29) Tetrahydrofuran           | 7.56 | 42  | 62377  | 97.024 | ug/l   | 98     |
| 30) Chloroform                | 7.71 | 83  | 175507 | 20.471 | ug/l   | 100    |
| 31) Cyclohexane               | 7.98 | 56  | 149874 | 20.943 | ug/l   | 95     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 164861 | 21.257 | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 136135 | 21.302 | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.28 | 43  | 43994  | 19.042 | ug/l # | 95     |
| 38) Carbon Tetrachloride      | 8.09 | 117 | 148375 | 21.236 | ug/l   | 96     |

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 9/24/2020 1:36:45 PM

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 QLast Update : Wed Sep 23 01:34:05 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.35  | 83   | 155364   | 21.174  | ug/l   | 98       |
| 40) Benzene                    | 8.34  | 78   | 368074   | 20.666  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.52  | 41   | 25418    | 17.890  | ug/l # | 100      |
| 42) 1,2-Dichloroethane         | 8.42  | 62   | 103711   | 19.697  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.45  | 43   | 81675    | 18.337  | ug/l   | 98       |
| 44) Trichloroethene            | 9.11  | 130  | 110185   | 21.704  | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 91203    | 20.352  | ug/l   | 96       |
| 46) Dibromomethane             | 9.47  | 93   | 48421    | 19.887  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.66  | 83   | 131141   | 20.050  | ug/l # | 98       |
| 48) Methyl methacrylate        | 9.45  | 41   | 45176    | 20.571  | ug/l   | 90       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 11570    | 351.764 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 10.22 | 43   | 216800   | 96.059  | ug/l   | 97       |
| 52) Toluene                    | 10.40 | 92   | 244915   | 21.348  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 111686   | 20.062  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 131545   | 19.379  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 69339    | 20.716  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 70002    | 19.523  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 114502   | 20.717  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 187125   | 110.216 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 142172   | 93.410  | ug/l   | 97       |
| 60) Dibromochloromethane       | 11.14 | 129  | 87972    | 20.138  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 64408    | 20.688  | ug/l   | 95       |
| 64) Tetrachloroethene          | 10.87 | 164  | 94436    | 22.492  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.67 | 112  | 254407   | 20.939  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 92692    | 20.157  | ug/l   | 94       |
| 67) Ethyl Benzene              | 11.74 | 91   | 449918   | 21.084  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.86 | 106  | 345735   | 42.792  | ug/l   | 99       |
| 69) o-Xylene                   | 12.18 | 106  | 152120   | 20.822  | ug/l   | 98       |
| 70) Styrene                    | 12.19 | 104  | 270832   | 21.347  | ug/l   | 99       |
| 71) Bromoform                  | 12.36 | 173  | 45480    | 19.533  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.48 | 105  | 433474   | 22.115  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.28 | 43   | 74447    | 19.449  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 67713    | 20.020  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 51561m   | 22.931  | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 96606    | 21.074  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.82 | 91   | 515552   | 21.863  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 285300   | 21.232  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 360194   | 21.657  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 15539    | 17.290  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 13.00 | 91   | 306334   | 21.626  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 296760   | 21.714  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 360507   | 21.859  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.40 | 105  | 424362   | 21.593  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 394242   | 22.255  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 194645   | 21.492  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 189710   | 21.090  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.84 | 91   | 355967   | 21.141  | ug/l   | 100      |
| 90) Hexachloroethane           | 14.11 | 117  | 73375    | 20.402  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.89 | 146  | 159714   | 20.612  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 10776    | 19.806  | ug/l   | 97       |

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Sample : VD0923SBS01  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
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Quant Title : SW846 8260  
QLast Update : Wed Sep 23 01:34:05 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 101580   | 20.825 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 63690    | 21.790 | ug/l  | 98       |
| 95) Naphthalene            | 15.41 | 128  | 157932   | 19.071 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 85054    | 20.203 | ug/l  | 99       |

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

