

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX073018\  
 Data File : VX003741.D  
 Acq On : 30 Jul 2018 23:58  
 Operator : JC/SP  
 Sample : VX0730SBS01  
 Misc : 5.00G/5.0mL/MSVOA X/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0730SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 8/1/2018 10:41:07 AM

Quant Time: Jul 31 12:21:09 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X073018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 31 11:17:41 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 78985    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 124760   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 115972   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 72183    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 51136    | 64.01 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 128.02% |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 41294    | 56.21 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 112.42% |      |
| 50) Toluene-d8            | 8.71   | 98  | 178281   | 58.21 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 116.42% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 62831    | 55.64 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 111.28% |      |

## Target Compounds

|                               |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 14604  | 21.91  | ug/l   | 98     |
| 3) Chloromethane              | 1.32 | 50  | 21462  | 25.61  | ug/l   | 94     |
| 4) Vinyl Chloride             | 1.40 | 62  | 19466  | 21.59  | ug/l # | 88     |
| 5) Bromomethane               | 1.63 | 94  | 13287  | 26.08  | ug/l   | 99     |
| 6) Chloroethane               | 1.70 | 64  | 14384  | 24.13  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 25856  | 21.87  | ug/l   | 88     |
| 8) Diethyl Ether              | 2.19 | 74  | 12071  | 27.02  | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 16347  | 21.80  | ug/l   | 99     |
| 10) Methyl Iodide             | 2.50 | 142 | 17054  | 19.78  | ug/l   | 100    |
| 11) Tert butyl alcohol        | 3.09 | 59  | 17344  | 134.09 | ug/l   | 97     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 15436  | 21.86  | ug/l   | 95     |
| 13) Acrolein                  | 2.29 | 56  | 7326   | 173.11 | ug/l   | 92     |
| 14) Allyl chloride            | 2.72 | 41  | 31023  | 24.79  | ug/l   | 99     |
| 15) Acrylonitrile             | 3.15 | 53  | 46344  | 140.88 | ug/l   | 99     |
| 16) Acetone                   | 2.45 | 43  | 41054  | 134.55 | ug/l   | 92     |
| 17) Carbon Disulfide          | 2.56 | 76  | 49509  | 21.55  | ug/l   | 100    |
| 18) Methyl Acetate            | 2.78 | 43  | 27614  | 32.20  | ug/l   | 96     |
| 19) Methyl tert-butyl Ether   | 3.21 | 73  | 53295  | 27.73  | ug/l   | 96     |
| 20) Methylene Chloride        | 2.85 | 84  | 24243  | 28.82  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96  | 18045  | 23.33  | ug/l   | 99     |
| 22) Diisopropyl ether         | 3.87 | 45  | 61369  | 27.16  | ug/l   | 94     |
| 23) Vinyl Acetate             | 3.82 | 43  | 215672 | 132.36 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 33018  | 25.06  | ug/l   | 98     |
| 25) 2-Butanone                | 4.70 | 43  | 59928  | 134.73 | ug/l   | 100    |
| 26) 1,2-Dichloropropane       | 4.59 | 77  | 20967  | 20.21  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96  | 19620  | 23.54  | ug/l   | 94     |
| 28) Bromochloromethane        | 5.01 | 49  | 14871  | 25.16  | ug/l   | 91     |
| 29) Tetrahydrofuran           | 5.15 | 42  | 37497  | 132.28 | ug/l   | 99     |
| 30) Chloroform                | 5.21 | 83  | 31894  | 24.57  | ug/l   | 96     |
| 31) Cyclohexane               | 5.58 | 56  | 25142  | 19.76  | ug/l # | 89     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 24155  | 21.65  | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 24723  | 21.16  | ug/l   | 99     |
| 37) Ethyl Acetate             | 4.85 | 43  | 22549  | 25.12  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 5.79 | 117 | 22479  | 20.80  | ug/l   | 94     |

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 Sample : VX0730SBS01  
 Misc : 5.00G/5.0mL/MSVOA X/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX0730SBS01

Manual Integrations  
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MMDadoda  
 8/1/2018 10:41:07 AM

Quant Time: Jul 31 12:21:09 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X073018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 31 11:17:41 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 25372    | 17.69  | ug/l   | 98       |
| 40) Benzene                    | 6.14  | 78   | 68499    | 20.46  | ug/l   | 96       |
| 41) Methacrylonitrile          | 5.06  | 41   | 12678    | 25.06  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 24361    | 24.09  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 6.46  | 43   | 33802    | 23.64  | ug/l   | 97       |
| 44) Trichloroethene            | 7.21  | 130  | 18440    | 19.31  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 18399    | 22.35  | ug/l   | 98       |
| 46) Dibromomethane             | 7.67  | 93   | 11127    | 23.45  | ug/l   | 96       |
| 47) Bromodichloromethane       | 7.90  | 83   | 21347    | 22.58  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.77  | 41   | 17688    | 24.66  | ug/l   | 95       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 6836     | 472.19 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 115844   | 131.82 | ug/l   | 96       |
| 52) Toluene                    | 8.79  | 92   | 47853    | 22.91  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 25089    | 23.23  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 8.44  | 75   | 27569    | 22.90  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 18018    | 25.07  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 23487    | 23.79  | ug/l   | 92       |
| 57) 1,3-Dichloropropane        | 9.38  | 76   | 30400    | 25.19  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 52918    | 110.09 | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.50  | 43   | 84011    | 125.48 | ug/l   | 98       |
| 60) Dibromochloromethane       | 9.59  | 129  | 15315    | 21.16  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 16977    | 23.13  | ug/l   | 98       |
| 64) Tetrachloroethene          | 9.34  | 164  | 21553    | 23.64  | ug/l   | 97       |
| 65) Chlorobenzene              | 10.14 | 112  | 49018    | 20.23  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 17538    | 22.19  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.26 | 91   | 86240    | 21.07  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.36 | 106  | 66177    | 41.34  | ug/l   | 97       |
| 69) o-Xylene                   | 10.70 | 106  | 32921    | 22.15  | ug/l   | 98       |
| 70) Styrene                    | 10.71 | 104  | 55554    | 22.22  | ug/l   | 99       |
| 71) Bromoform                  | 10.86 | 173  | 11101    | 20.43  | ug/l # | 97       |
| 73) Isopropylbenzene           | 11.02 | 105  | 81861    | 18.12  | ug/l   | 99       |
| 74) N-amyl acetate             | 6.46  | 43   | 33802    | 21.10  | ug/l # | 56       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 25968    | 22.10  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 22601m   | 22.72  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 24741    | 21.00  | ug/l   | 97       |
| 78) n-propylbenzene            | 11.36 | 91   | 105291   | 19.23  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 63416    | 20.40  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 76318    | 19.79  | ug/l # | 69       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 5849     | 17.41  | ug/l   | 88       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 75641    | 20.06  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 69466    | 18.21  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 78659    | 19.81  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.95 | 105  | 91038    | 18.65  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 83740    | 18.88  | ug/l # | 71       |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 47153    | 19.79  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 48921    | 20.12  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 80380    | 19.04  | ug/l   | 98       |
| 90) Hexachloroethane           | 12.60 | 117  | 12140    | 18.43  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 45259    | 20.39  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 5101     | 21.88  | ug/l   | 94       |

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Sample : VX0730SBSD01  
Misc : 5.00G/5.0mL/MSVOA X/SOIL  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0730SBSD01

Manual Integrations  
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8/1/2018 10:41:07 AM

Quant Time: Jul 31 12:21:09 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X073018S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 31 11:17:41 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 35500    | 20.16 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 20753    | 18.43 | ug/l  | 100      |
| 95) Naphthalene            | 13.83 | 128  | 81617    | 21.69 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 33313    | 20.84 | ug/l  | 99       |

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

