

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD032124\  
 Data File : VD078725.D  
 Acq On : 21 Mar 2024 12:52  
 Operator : RP/MD  
 Sample : MDL06  
 Misc : 5.00G/5ml/MSVOA\_D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL06

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 03/22/2024  
 Supervised By :Semsettin Yesilyurt 03/22/2024

Quant Time: Mar 22 07:19:46 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031424S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 22 07:09:13 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Pentafluorobenzene        | 7.881          | 168  | 110680              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.781          | 114  | 194111              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.587         | 117  | 175019              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.516         | 152  | 77042               | 50.000 | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.234          | 65   | 53127               | 51.219 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 102.440% |        |        |          |
| 35) Dibromofluoromethane     | 7.805          | 113  | 63117               | 50.502 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 101.000% |        |        |          |
| 50) Toluene-d8               | 10.269         | 98   | 236259              | 51.402 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 102.800% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.575         | 95   | 60941               | 45.320 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 90.640%  |        |        |          |
| Target Compounds             |                |      |                     |        |        |          |
|                              |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.934          | 85   | 2669                | 2.591  | ug/l   | 98       |
| 3) Chloromethane             | 2.152          | 50   | 3304                | 2.031  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.293          | 62   | 4949                | 2.063  | ug/l   | 92       |
| 5) Bromomethane              | 2.705          | 94   | 5207                | 2.267  | ug/l   | 95       |
| 6) Chloroethane              | 2.846          | 64   | 4193                | 2.241  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.187          | 101  | 5208                | 2.744  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.599          | 74   | 1173                | 2.117  | ug/l   | 92       |
| 9) 1,1,2-Trichlorotrifluo... | 3.969          | 101  | 3489                | 2.929  | ug/l # | 94       |
| 10) Methyl Iodide            | 4.175          | 142  | 2474                | 1.756  | ug/l # | 94       |
| 11) Tert butyl alcohol       | 5.069          | 59   | 211                 | 4.545  | ug/l # | 75       |
| 12) 1,1-Dichloroethene       | 3.958          | 96   | 2414                | 2.132  | ug/l # | 65       |
| 13) Acrolein                 | 3.799          | 56   | 923                 | 12.693 | ug/l   | 93       |
| 14) Allyl chloride           | 4.564          | 41   | 3423                | 2.709  | ug/l # | 90       |
| 15) Acrylonitrile            | 5.258          | 53   | 2582                | 11.557 | ug/l # | 75       |
| 16) Acetone                  | 4.034          | 43   | 3214m               | 16.024 | ug/l   |          |
| 17) Carbon Disulfide         | 4.269          | 76   | 5491                | 1.479  | ug/l # | 76       |
| 18) Methyl Acetate           | 4.569          | 43   | 1532                | 3.559  | ug/l # | 73       |
| 19) Methyl tert-butyl Ether  | 5.328          | 73   | 4803m               | 2.103  | ug/l   |          |
| 20) Methylene Chloride       | 4.811          | 84   | 6496                | 3.815  | ug/l   | 90       |
| 21) trans-1,2-Dichloroethene | 5.322          | 96   | 2968                | 2.221  | ug/l # | 82       |
| 22) Diisopropyl ether        | 6.211          | 45   | 5560                | 1.935  | ug/l # | 86       |
| 23) Vinyl Acetate            | 6.163          | 43   | 13571m              | 8.076  | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.122          | 63   | 6201                | 2.879  | ug/l # | 93       |
| 25) 2-Butanone               | 7.081          | 43   | 3568                | 13.380 | ug/l   | 90       |
| 26) 2,2-Dichloropropane      | 7.075          | 77   | 5153                | 2.828  | ug/l   | 91       |
| 27) cis-1,2-Dichloroethene   | 7.087          | 96   | 4366                | 2.865  | ug/l   | 71       |
| 28) Bromochloromethane       | 7.428          | 49   | 1841                | 2.397  | ug/l # | 45       |
| 29) Tetrahydrofuran          | 7.457          | 42   | 1338                | 9.225  | ug/l   | 91       |
| 30) Chloroform               | 7.605          | 83   | 7076                | 2.946  | ug/l # | 78       |
| 31) Cyclohexane              | 7.887          | 56   | 4966                | 2.848  | ug/l # | 61       |
| 32) 1,1,1-Trichloroethane    | 7.805          | 97   | 5397                | 2.649  | ug/l # | 87       |
| 36) 1,1-Dichloropropene      | 8.016          | 75   | 3679                | 2.029  | ug/l   | 90       |
| 37) Ethyl Acetate            | 7.169          | 43   | 1363m               | 2.301  | ug/l   |          |
| 38) Carbon Tetrachloride     | 7.993          | 117  | 4999                | 2.615  | ug/l   | 94       |
| 39) Methylcyclohexane        | 9.275          | 83   | 4227                | 2.009  | ug/l # | 63       |
| 40) Benzene                  | 8.257          | 78   | 12710               | 2.319  | ug/l # | 89       |

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 Sample : MDL06  
 Misc : 5.00G/5ml/MSVOA\_D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL06

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 03/22/2024  
 Supervised By :Semsettin Yesilyurt 03/22/2024

Quant Time: Mar 22 07:19:46 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031424S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 22 07:09:13 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 41) Methacrylonitrile         | 7.416  | 41   | 843      | 2.715 | ug/l # | 44       |
| 42) 1,2-Dichloroethane        | 8.334  | 62   | 3664     | 2.741 | ug/l   | 82       |
| 43) Isopropyl Acetate         | 8.375  | 43   | 2209     | 2.050 | ug/l # | 86       |
| 44) Trichloroethene           | 9.040  | 130  | 4021     | 2.703 | ug/l   | 68       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 3066     | 2.358 | ug/l   | 98       |
| 46) Dibromomethane            | 9.399  | 93   | 1737     | 2.228 | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.587  | 83   | 5103     | 2.750 | ug/l # | 78       |
| 48) Methyl methacrylate       | 9.381  | 41   | 1534     | 2.922 | ug/l # | 80       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 5140     | 9.126 | ug/l   | 95       |
| 52) Toluene                   | 10.334 | 92   | 8353     | 2.367 | ug/l   | 92       |
| 53) t-1,3-Dichloropropene     | 10.551 | 75   | 3818     | 2.250 | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.022 | 75   | 4408     | 2.161 | ug/l   | 92       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 2728     | 2.613 | ug/l # | 74       |
| 56) Ethyl methacrylate        | 10.599 | 69   | 1701     | 1.626 | ug/l # | 72       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 3723     | 2.210 | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether | 9.875  | 63   | 3416     | 7.404 | ug/l   | 95       |
| 59) 2-Hexanone                | 10.928 | 43   | 3940     | 9.437 | ug/l   | 88       |
| 60) Dibromochloromethane      | 11.075 | 129  | 3222     | 2.503 | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.187 | 107  | 2218     | 2.196 | ug/l   | 86       |
| 64) Tetrachloroethene         | 10.810 | 164  | 3115     | 2.690 | ug/l # | 90       |
| 65) Chlorobenzene             | 11.604 | 112  | 9535     | 2.607 | ug/l   | 91       |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 3495     | 2.609 | ug/l   | 94       |
| 67) Ethyl Benzene             | 11.687 | 91   | 14230    | 2.283 | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.793 | 106  | 10759    | 4.251 | ug/l   | 98       |
| 69) o-Xylene                  | 12.128 | 106  | 4710     | 2.011 | ug/l   | 94       |
| 70) Styrene                   | 12.140 | 104  | 7272     | 1.850 | ug/l   | 99       |
| 71) Bromoform                 | 12.304 | 173  | 1538     | 2.125 | ug/l # | 91       |
| 73) Isopropylbenzene          | 12.422 | 105  | 13303    | 2.623 | ug/l   | 99       |
| 74) N-amyl acetate            | 12.245 | 43   | 2025     | 2.459 | ug/l   | 91       |
| 75) 1,1,2,2-Tetrachloroethane | 12.669 | 83   | 2918     | 3.108 | ug/l # | 88       |
| 76) 1,2,3-Trichloropropane    | 12.710 | 75   | 1848m    | 3.113 | ug/l   |          |
| 77) Bromobenzene              | 12.710 | 156  | 3381     | 2.688 | ug/l   | 83       |
| 78) n-propylbenzene           | 12.763 | 91   | 17795    | 2.882 | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.851 | 91   | 9271     | 2.737 | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 10453    | 2.492 | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 758m     | 2.677 | ug/l   |          |
| 82) 4-Chlorotoluene           | 12.951 | 91   | 9264     | 2.586 | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.169 | 119  | 9770     | 2.701 | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.216 | 105  | 9806     | 2.320 | ug/l   | 90       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 13880    | 2.536 | ug/l   | 92       |
| 86) p-Isopropyltoluene        | 13.463 | 119  | 11941    | 2.548 | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.463 | 146  | 7248     | 2.730 | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.540 | 146  | 7466     | 2.854 | ug/l   | 85       |
| 89) n-Butylbenzene            | 13.787 | 91   | 11514    | 2.721 | ug/l   | 95       |
| 90) Hexachloroethane          | 14.051 | 117  | 3169     | 3.269 | ug/l   | 86       |
| 91) 1,2-Dichlorobenzene       | 13.840 | 146  | 6025     | 2.635 | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.451 | 75   | 339      | 2.699 | ug/l   | 70       |
| 93) 1,2,4-Trichlorobenzene    | 15.104 | 180  | 3463     | 2.595 | ug/l   | 95       |
| 94) Hexachlorobutadiene       | 15.210 | 225  | 2250     | 3.115 | ug/l   | 96       |
| 95) Naphthalene               | 15.339 | 128  | 6197     | 2.671 | ug/l # | 91       |
| 96) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 3107     | 2.692 | ug/l   | 96       |

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Sample : MDL06  
Misc : 5.00G/5ml/MSVOA\_D/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL06

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 03/22/2024  
Supervised By :Semsettin Yesilyurt 03/22/2024

Quant Time: Mar 22 07:19:46 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031424S.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 22 07:09:13 2024  
Response via : Initial Calibration

| Compound                                                             | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

