

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD121223\  
 Data File : VD077813.D  
 Acq On : 11 Dec 2023 16:07  
 Operator : JC/SY  
 Sample : VD1211SBS01  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Dec 11 17:05:01 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D120823S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 08 13:33:18 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.881  | 168  | 137933   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.781  | 114  | 238942   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.581 | 117  | 225376   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152  | 116734   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 33) 1,2-Dichloroethane-d4   | 8.234  | 65    | 83848    | 51.588   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | = 103.180% |      |
| 35) Dibromofluoromethane    | 7.805  | 113   | 85548    | 51.113   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | = 102.220% |      |
| 50) Toluene-d8              | 10.269 | 98    | 344232   | 51.352   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | = 102.700% |      |
| 62) 4-Bromofluorobenzene    | 12.575 | 95    | 102384   | 51.086   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | = 102.180% |      |

|                              |       |     |        |         |        |    |
|------------------------------|-------|-----|--------|---------|--------|----|
| Target Compounds             |       |     |        |         | Qvalue |    |
| 2) Dichlorodifluoromethane   | 1.934 | 85  | 36573  | 21.226  | ug/l   | 97 |
| 3) Chloromethane             | 2.152 | 50  | 51482  | 21.920  | ug/l   | 98 |
| 4) Vinyl Chloride            | 2.287 | 62  | 68415  | 21.458  | ug/l   | 96 |
| 5) Bromomethane              | 2.693 | 94  | 39413  | 22.030  | ug/l   | 96 |
| 6) Chloroethane              | 2.846 | 64  | 46046  | 21.183  | ug/l   | 94 |
| 7) Trichlorofluoromethane    | 3.181 | 101 | 62086  | 21.143  | ug/l   | 96 |
| 8) Diethyl Ether             | 3.593 | 74  | 18823  | 22.828  | ug/l   | 82 |
| 9) 1,1,2-Trichlorotrifluo... | 3.975 | 101 | 35310  | 21.019  | ug/l   | 98 |
| 10) Methyl Iodide            | 4.175 | 142 | 23865  | 20.765  | ug/l   | 94 |
| 11) Tert butyl alcohol       | 5.052 | 59  | 9028   | 108.986 | ug/l # | 90 |
| 12) 1,1-Dichloroethene       | 3.952 | 96  | 34615  | 20.878  | ug/l # | 80 |
| 13) Acrolein                 | 3.793 | 56  | 17598  | 102.355 | ug/l   | 97 |
| 14) Allyl chloride           | 4.564 | 41  | 48373  | 21.213  | ug/l # | 92 |
| 15) Acrylonitrile            | 5.258 | 53  | 39333  | 111.413 | ug/l   | 98 |
| 16) Acetone                  | 4.022 | 43  | 48708  | 122.582 | ug/l   | 90 |
| 17) Carbon Disulfide         | 4.281 | 76  | 113339 | 20.206  | ug/l   | 98 |
| 18) Methyl Acetate           | 4.569 | 43  | 27130  | 21.195  | ug/l   | 89 |
| 19) Methyl tert-butyl Ether  | 5.328 | 73  | 78239  | 22.241  | ug/l   | 94 |
| 20) Methylene Chloride       | 4.805 | 84  | 46164  | 21.192  | ug/l # | 87 |
| 21) trans-1,2-Dichloroethene | 5.322 | 96  | 41218  | 21.948  | ug/l   | 98 |
| 22) Diisopropyl ether        | 6.222 | 45  | 103857 | 21.795  | ug/l   | 92 |
| 23) Vinyl Acetate            | 6.158 | 43  | 253936 | 109.123 | ug/l # | 90 |
| 24) 1,1-Dichloroethane       | 6.116 | 63  | 71409  | 22.128  | ug/l   | 99 |
| 25) 2-Butanone               | 7.081 | 43  | 54320  | 113.374 | ug/l # | 87 |
| 26) 2,2-Dichloropropane      | 7.081 | 77  | 56764  | 20.951  | ug/l   | 95 |
| 27) cis-1,2-Dichloroethene   | 7.087 | 96  | 45384  | 22.459  | ug/l   | 91 |
| 28) Bromochloromethane       | 7.428 | 49  | 30039  | 23.036  | ug/l # | 75 |
| 29) Tetrahydrofuran          | 7.452 | 42  | 28790  | 111.235 | ug/l   | 87 |
| 30) Chloroform               | 7.599 | 83  | 71256  | 22.063  | ug/l   | 98 |
| 31) Cyclohexane              | 7.881 | 56  | 58513  | 20.240  | ug/l   | 88 |
| 32) 1,1,1-Trichloroethane    | 7.793 | 97  | 60253  | 21.162  | ug/l   | 99 |
| 36) 1,1-Dichloropropene      | 8.016 | 75  | 55476  | 20.722  | ug/l   | 93 |
| 37) Ethyl Acetate            | 7.175 | 43  | 19996  | 19.155  | ug/l   | 97 |
| 38) Carbon Tetrachloride     | 7.999 | 117 | 54953  | 20.590  | ug/l   | 92 |
| 39) Methylcyclohexane        | 9.275 | 83  | 64417  | 20.297  | ug/l   | 93 |
| 40) Benzene                  | 8.257 | 78  | 158456 | 20.854  | ug/l   | 99 |

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 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Dec 11 17:05:01 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D120823S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 08 13:33:18 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.405  | 41   | 10819    | 20.391  | ug/l # | 85       |
| 42) 1,2-Dichloroethane        | 8.328  | 62   | 42768    | 21.714  | ug/l   | 95       |
| 43) Isopropyl Acetate         | 8.363  | 43   | 38945    | 20.987  | ug/l   | 95       |
| 44) Trichloroethene           | 9.034  | 130  | 40890    | 20.650  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.310  | 63   | 40463    | 21.906  | ug/l   | 96       |
| 46) Dibromomethane            | 9.399  | 93   | 21562    | 22.062  | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.587  | 83   | 52779    | 21.305  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.381  | 41   | 23071    | 21.871  | ug/l # | 76       |
| 49) 1,4-Dioxane               | 9.387  | 88   | 4424     | 455.856 | ug/l # | 77       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 101560   | 107.238 | ug/l   | 89       |
| 52) Toluene                   | 10.334 | 92   | 101127   | 21.455  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.551 | 75   | 51389    | 21.602  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 61210    | 21.282  | ug/l # | 88       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 29321    | 21.933  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.598 | 69   | 25270    | 21.443  | ug/l # | 79       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 49866    | 21.640  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 70742    | 105.261 | ug/l   | 95       |
| 59) 2-Hexanone                | 10.922 | 43   | 84518    | 107.568 | ug/l   | 87       |
| 60) Dibromochloromethane      | 11.075 | 129  | 35433    | 22.014  | ug/l   | 95       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 27620    | 21.948  | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.810 | 164  | 33884    | 20.455  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.610 | 112  | 106726   | 18.934  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 38653    | 20.624  | ug/l   | 94       |
| 67) Ethyl Benzene             | 11.687 | 91   | 187054   | 19.935  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.793 | 106  | 144693   | 40.315  | ug/l   | 91       |
| 69) o-Xylene                  | 12.122 | 106  | 67509    | 20.409  | ug/l   | 94       |
| 70) Styrene                   | 12.134 | 104  | 102950   | 20.931  | ug/l   | 94       |
| 71) Bromoform                 | 12.298 | 173  | 21278    | 21.729  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.422 | 105  | 176944   | 20.000  | ug/l   | 96       |
| 74) N-amyl acetate            | 12.234 | 43   | 34849    | 20.038  | ug/l   | 91       |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 31756    | 20.585  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.722 | 75   | 40074    | 39.527  | ug/l # | 100      |
| 77) Bromobenzene              | 12.704 | 156  | 42502    | 20.424  | ug/l   | 92       |
| 78) n-propylbenzene           | 12.763 | 91   | 214353   | 19.883  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.851 | 91   | 116917   | 20.236  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 149472   | 20.256  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 10838    | 21.659  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 12.945 | 91   | 123140   | 20.387  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.169 | 119  | 125146   | 20.089  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.216 | 105  | 148468   | 20.116  | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 183079   | 19.882  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.463 | 119  | 160799   | 19.504  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.457 | 146  | 84696    | 19.902  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.539 | 146  | 88323    | 19.824  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.787 | 91   | 150807   | 19.440  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.057 | 117  | 32337    | 21.327  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.834 | 146  | 75946    | 20.983  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75   | 4781     | 20.823  | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 15.098 | 180  | 47253    | 19.114  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 25570    | 19.180  | ug/l   | 97       |
| 95) Naphthalene               | 15.334 | 128  | 85034    | 20.702  | ug/l   | 96       |
| 96) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 41484    | 20.354  | ug/l   | 99       |

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Sample : VD1211SBS01  
Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

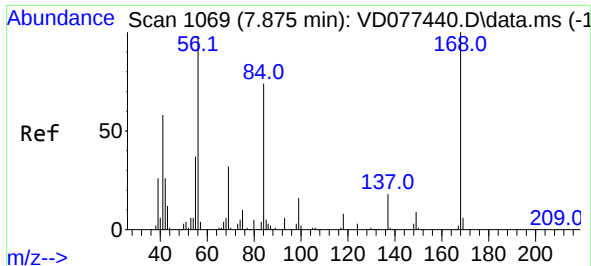
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D120823S.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 08 13:33:18 2023  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

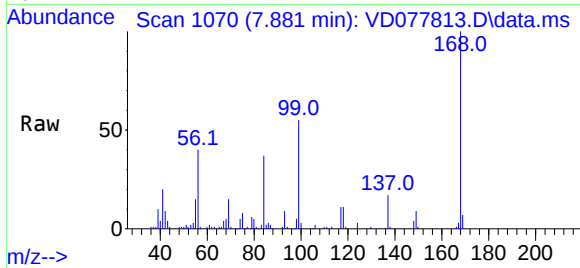
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D120823S.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 08 13:33:18 2023  
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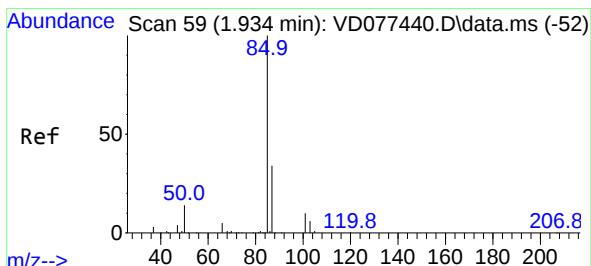
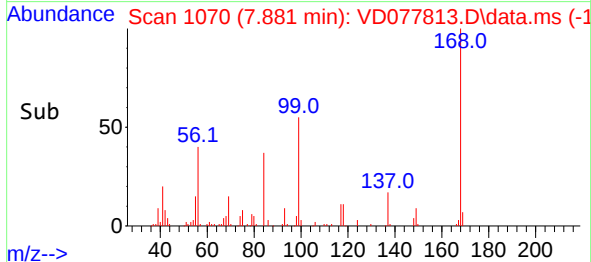
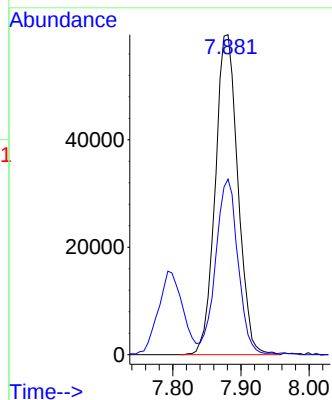


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.881 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Instrument :  
MSVOA\_D  
ClientSampleId :

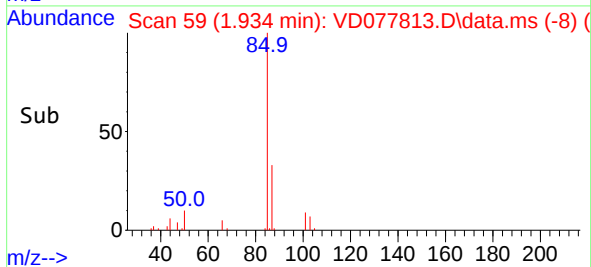
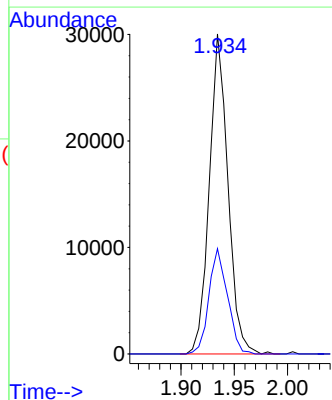
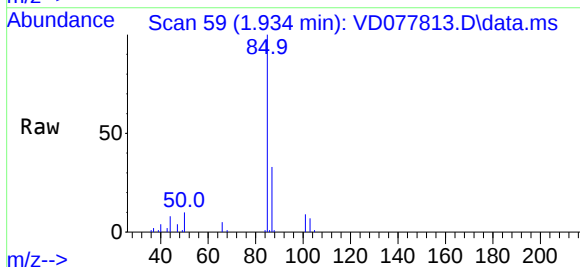


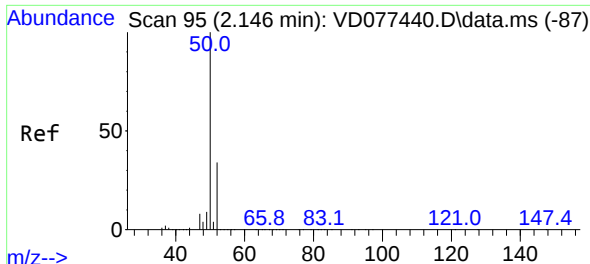
Tgt Ion:168 Resp: 137933  
Ion Ratio Lower Upper  
168 100  
99 54.4 36.7 55.1



#2  
Dichlorodifluoromethane  
Concen: 21.226 ug/l  
RT: 1.934 min Scan# 59  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion: 85 Resp: 36573  
Ion Ratio Lower Upper  
85 100  
87 32.9 15.7 47.0

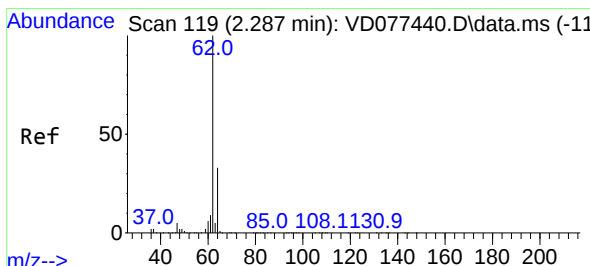
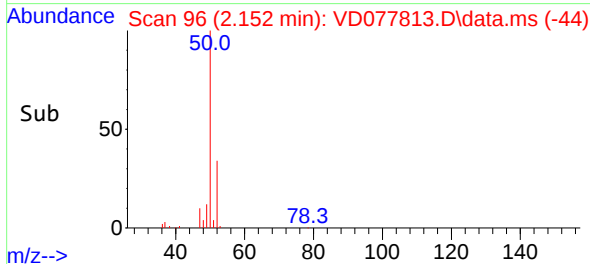
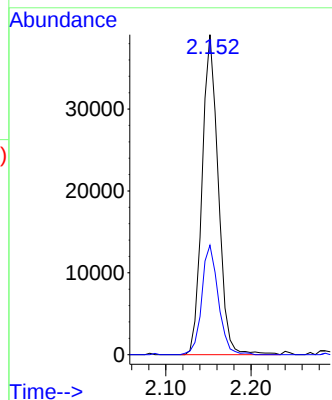
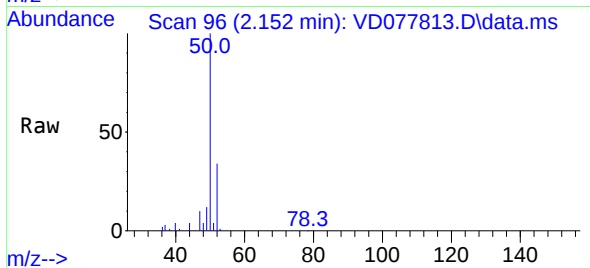




#3  
Chloromethane  
Concen: 21.920 ug/l  
RT: 2.152 min Scan# 90  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

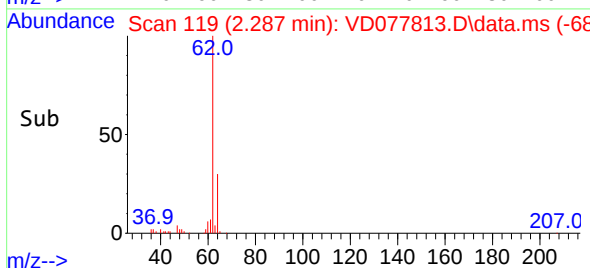
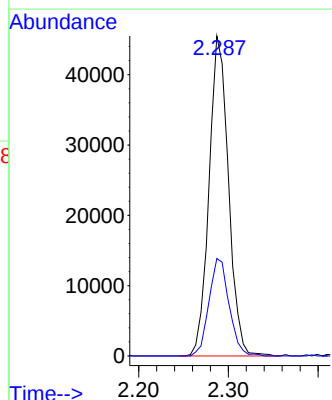
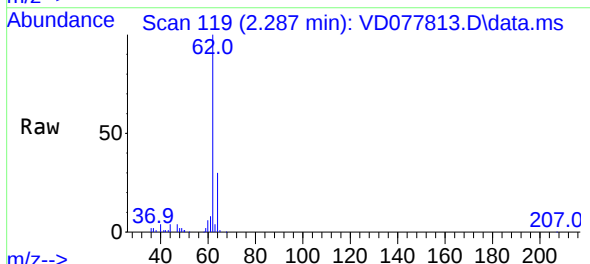
Instrument :  
MSVOA\_D  
ClientSampleId :

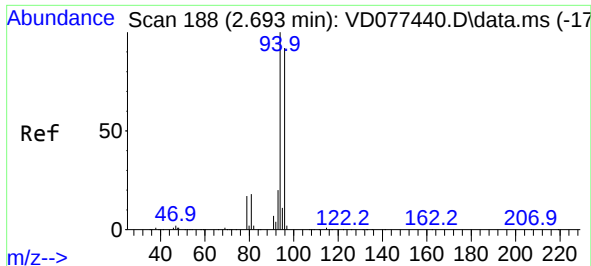
Tgt Ion: 50 Resp: 51482  
Ion Ratio Lower Upper  
50 100  
52 34.2 26.6 40.0



#4  
Vinyl Chloride  
Concen: 21.458 ug/l  
RT: 2.287 min Scan# 119  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion: 62 Resp: 68415  
Ion Ratio Lower Upper  
62 100  
64 30.5 26.0 39.0

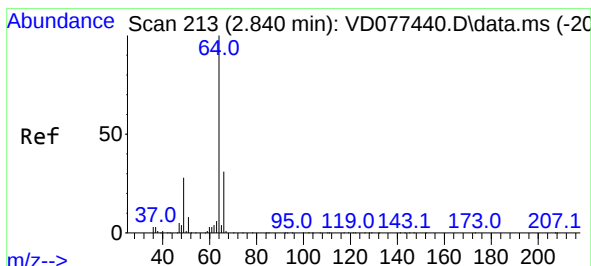
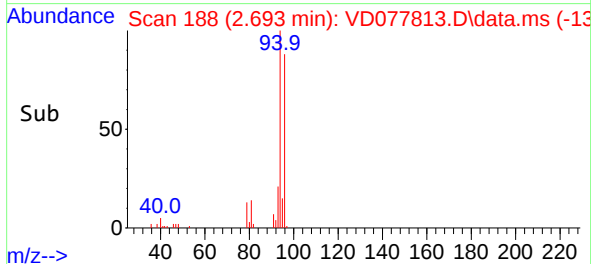
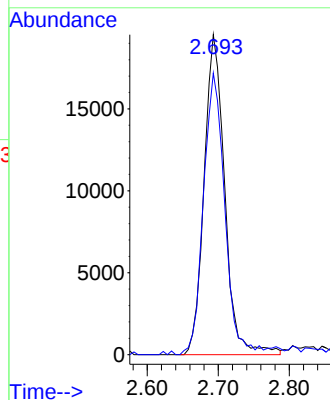
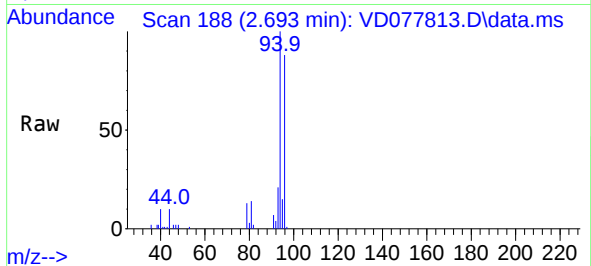




#5  
Bromomethane  
Concen: 22.030 ug/l  
RT: 2.693 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

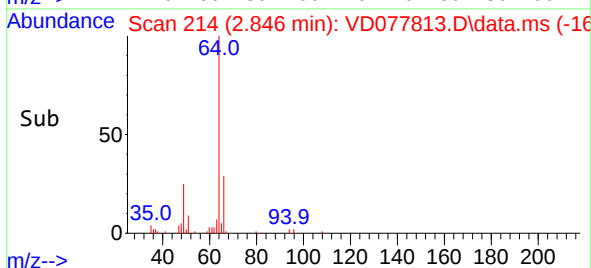
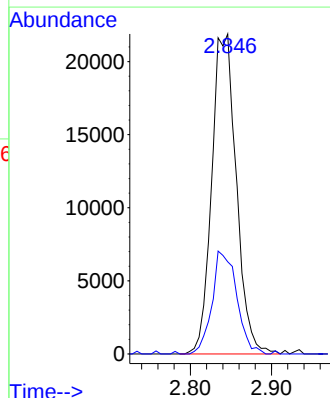
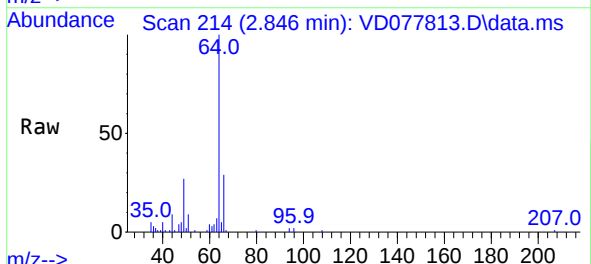
Instrument :  
MSVOA\_D  
ClientSampleId :

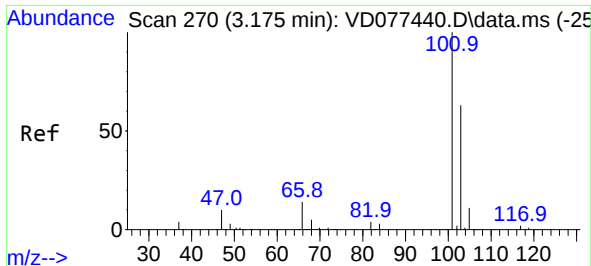
Tgt Ion: 94 Resp: 39413  
Ion Ratio Lower Upper  
94 100  
96 90.7 75.8 113.8



#6  
Chloroethane  
Concen: 21.183 ug/l  
RT: 2.846 min Scan# 214  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion: 64 Resp: 46046  
Ion Ratio Lower Upper  
64 100  
66 28.8 25.5 38.3

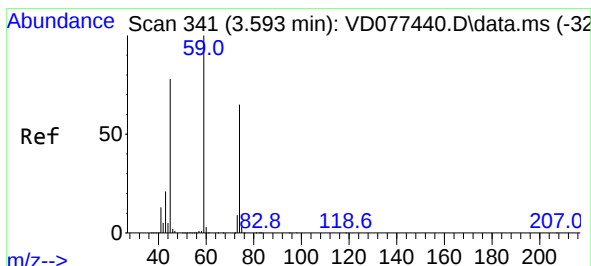
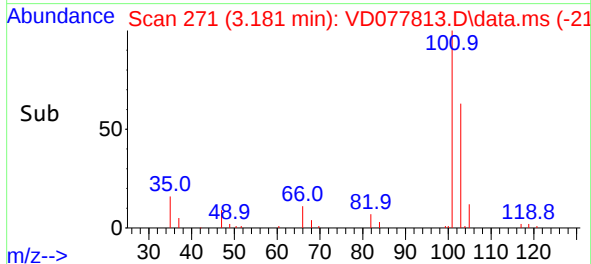
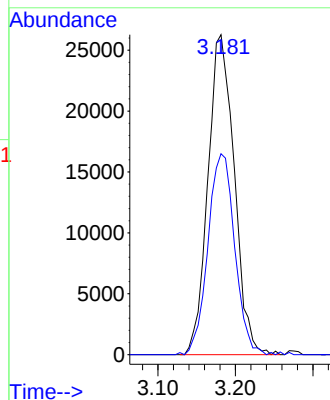
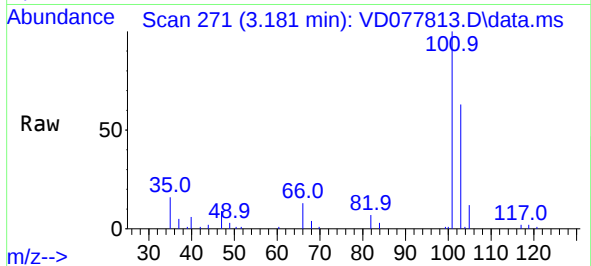




#7  
Trichlorofluoromethane  
Concen: 21.143 ug/l  
RT: 3.181 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

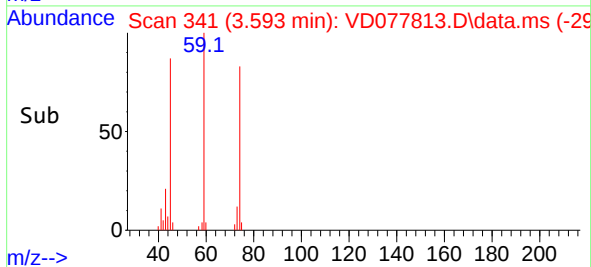
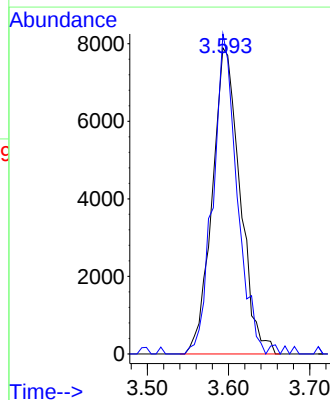
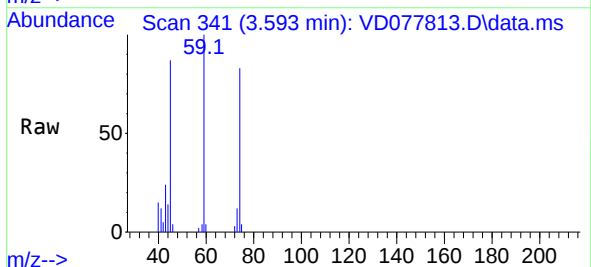
Instrument :  
MSVOA\_D  
ClientSampleId :

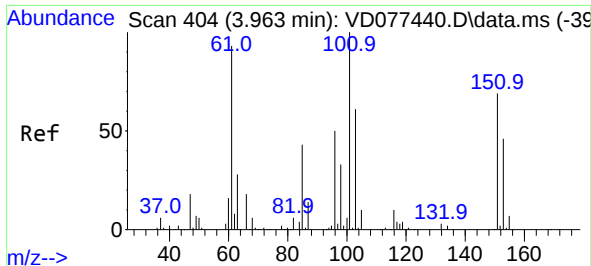
Tgt Ion:101 Resp: 62086  
Ion Ratio Lower Upper  
101 100  
103 62.2 52.3 78.5



#8  
Diethyl Ether  
Concen: 22.828 ug/l  
RT: 3.593 min Scan# 341  
Delta R.T. -0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion: 74 Resp: 18823  
Ion Ratio Lower Upper  
74 100  
45 90.1 37.5 112.7

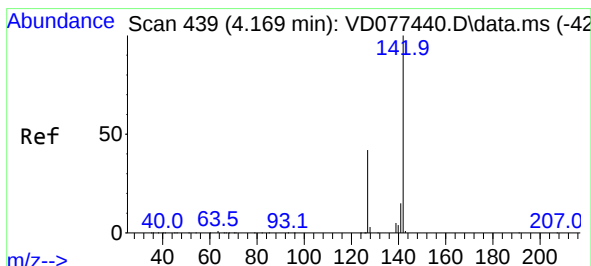
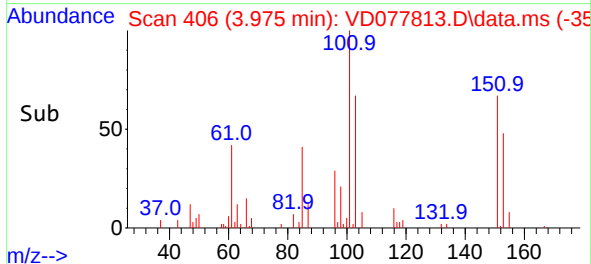
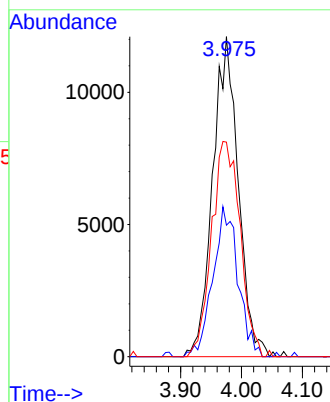
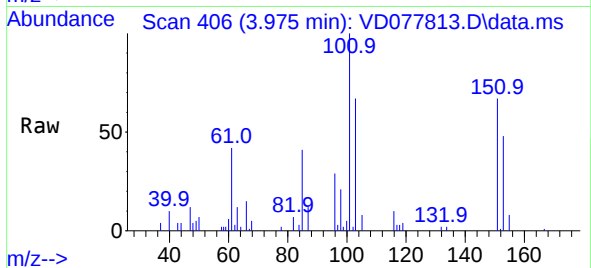




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 21.019 ug/l  
RT: 3.975 min Scan# 404  
Delta R.T. 0.012 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

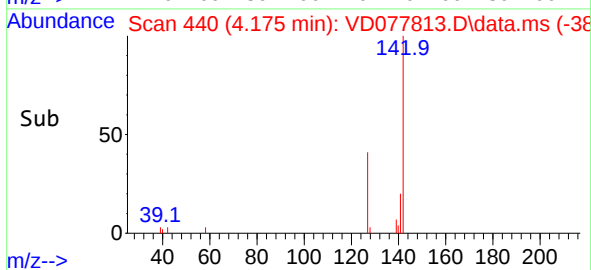
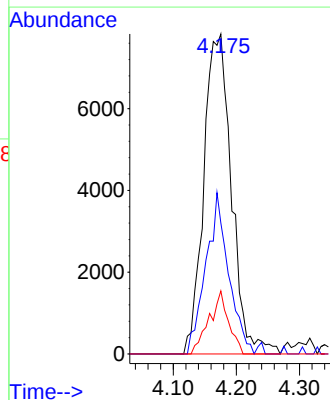
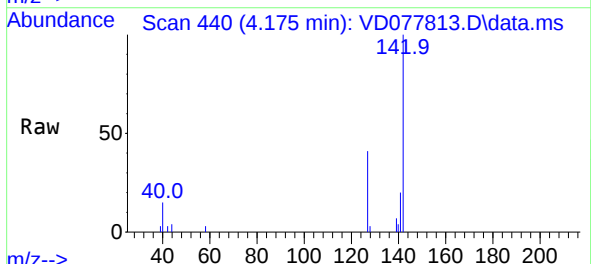
Instrument :  
MSVOA\_D  
ClientSampleId :

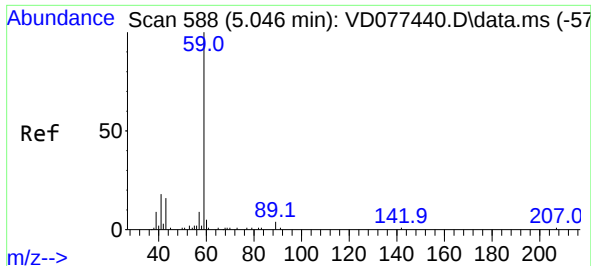
Tgt Ion:101 Resp: 35310  
Ion Ratio Lower Upper  
101 100  
85 46.1 33.8 50.6  
151 75.0 59.8 89.6



#10  
Methyl Iodide  
Concen: 20.765 ug/l  
RT: 4.175 min Scan# 440  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

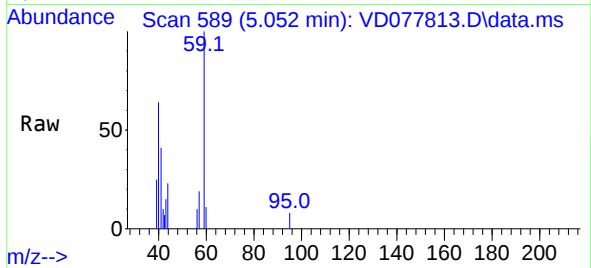
Tgt Ion:142 Resp: 23865  
Ion Ratio Lower Upper  
142 100  
127 41.4 29.4 44.0  
141 13.8 11.1 16.7



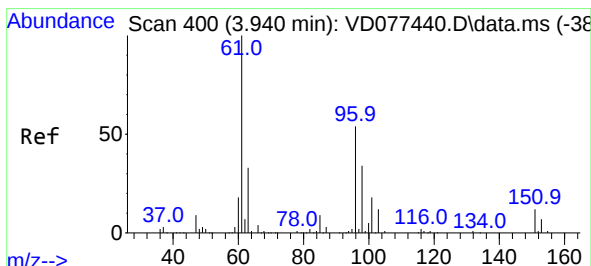
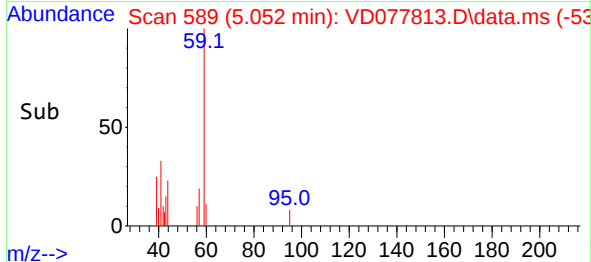
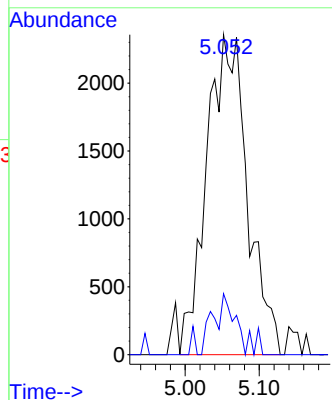


#11  
Tert butyl alcohol  
Concen: 108.986 ug/l  
RT: 5.052 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Instrument :  
MSVOA\_D  
ClientSampleId :

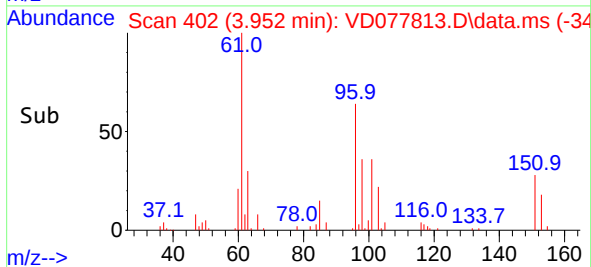
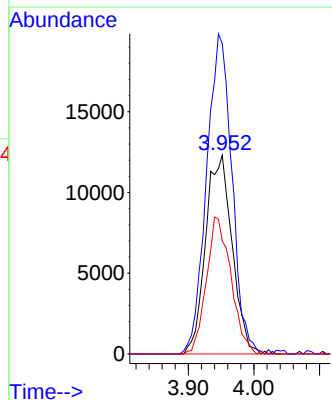
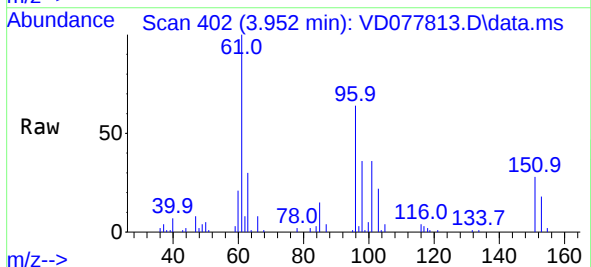


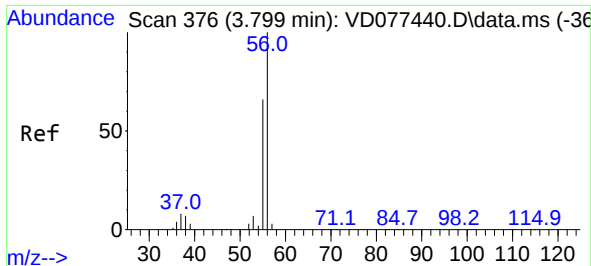
Tgt Ion: 59 Resp: 9028  
Ion Ratio Lower Upper  
59 100  
57 5.9 7.8 11.8#



#12  
1,1-Dichloroethene  
Concen: 20.878 ug/l  
RT: 3.952 min Scan# 402  
Delta R.T. 0.012 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion: 96 Resp: 34615  
Ion Ratio Lower Upper  
96 100  
61 156.2 100.6 150.8#  
98 56.8 50.2 75.2

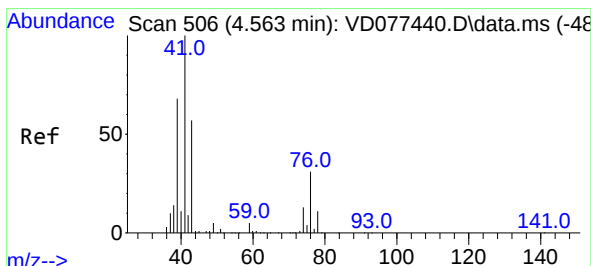
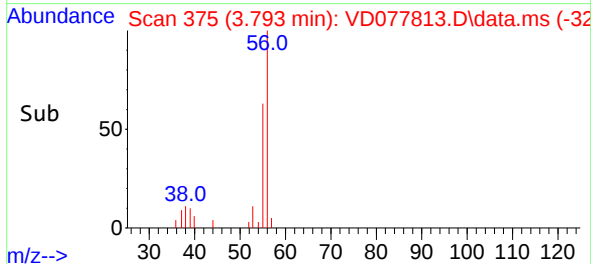
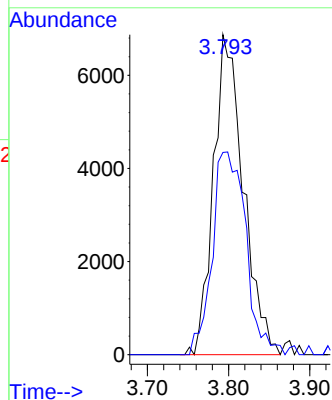
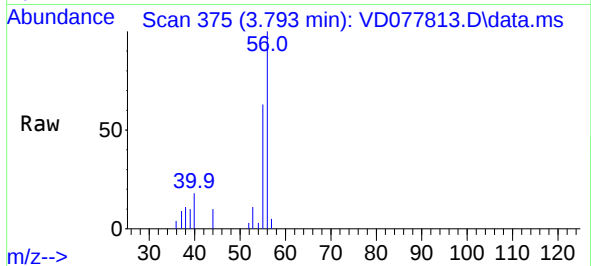




#13  
Acrolein  
Concen: 102.355 ug/l  
RT: 3.793 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

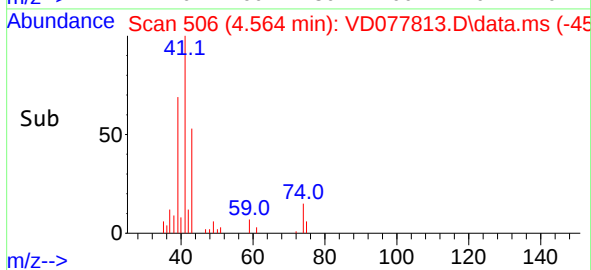
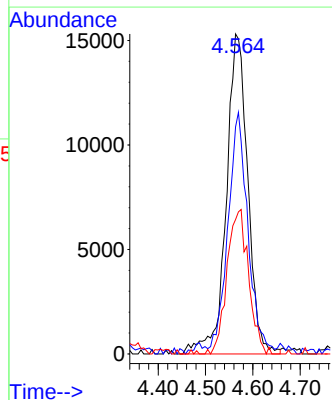
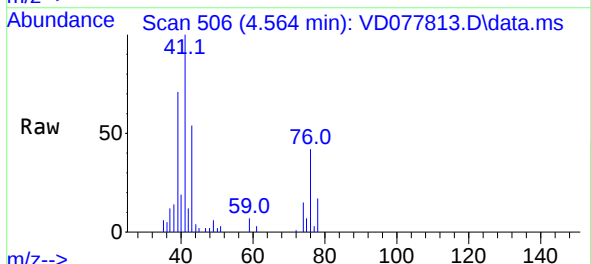
Instrument :  
MSVOA\_D  
ClientSampleId :

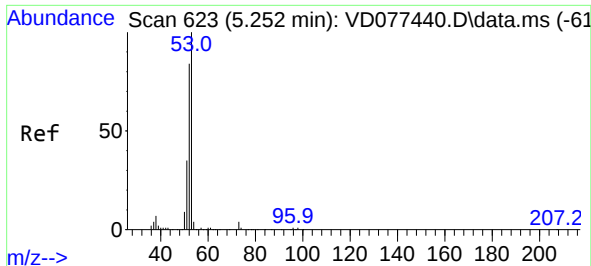
Tgt Ion: 56 Resp: 17598  
Ion Ratio Lower Upper  
56 100  
55 70.9 55.1 82.7



#14  
Allyl chloride  
Concen: 21.213 ug/l  
RT: 4.564 min Scan# 506  
Delta R.T. 0.001 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion: 41 Resp: 48373  
Ion Ratio Lower Upper  
41 100  
39 68.0 53.8 80.6  
76 45.1 45.8 68.8#

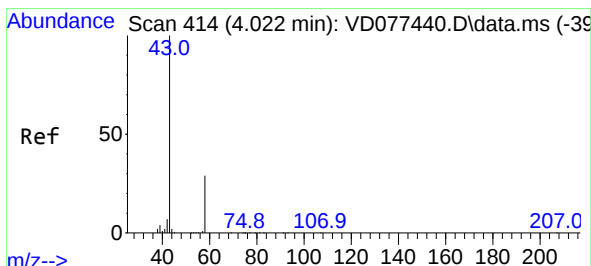
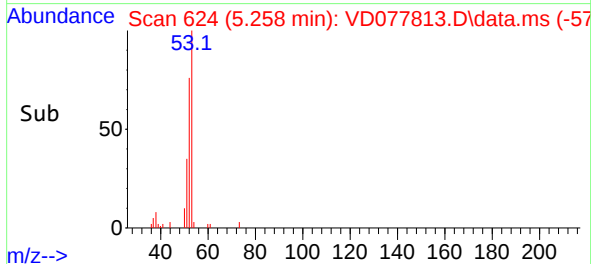
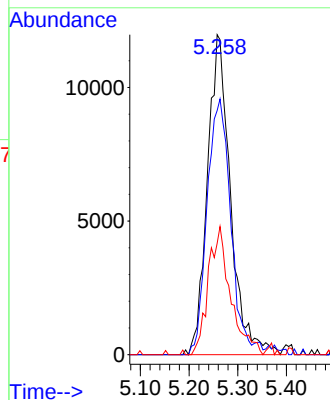
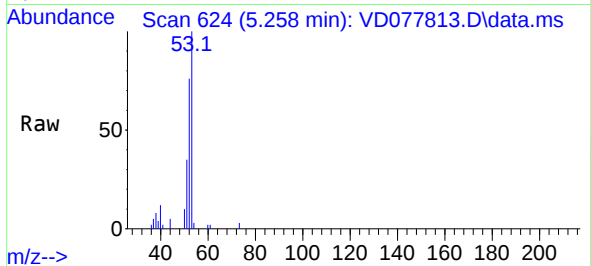




#15  
Acrylonitrile  
Concen: 111.413 ug/l  
RT: 5.258 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

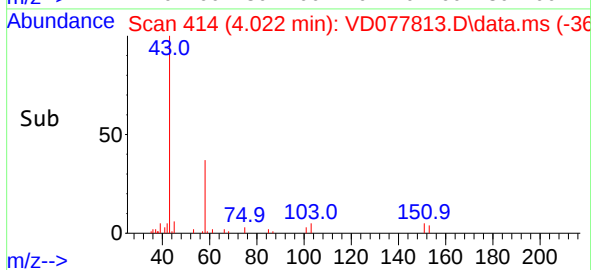
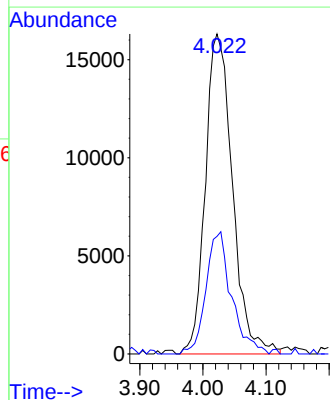
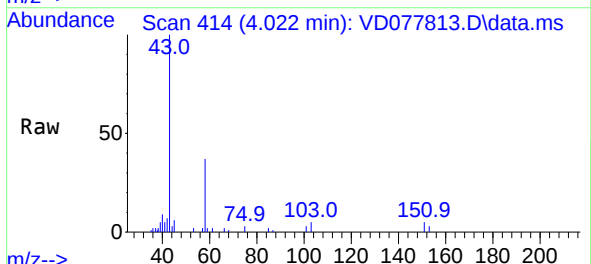
Instrument :  
MSVOA\_D  
ClientSampleId :

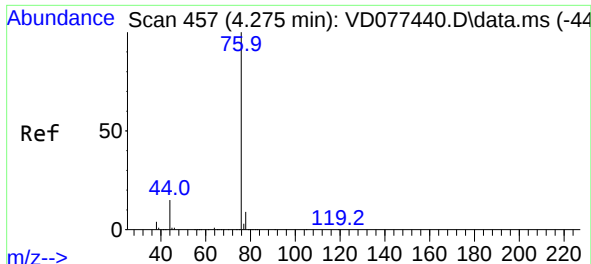
Tgt Ion: 53 Resp: 39333  
Ion Ratio Lower Upper  
53 100  
52 81.0 65.0 97.4  
51 38.7 28.3 42.5



#16  
Acetone  
Concen: 122.582 ug/l  
RT: 4.022 min Scan# 414  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion: 43 Resp: 48708  
Ion Ratio Lower Upper  
43 100  
58 36.7 34.7 52.1

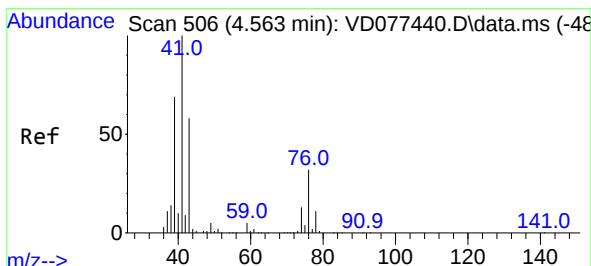
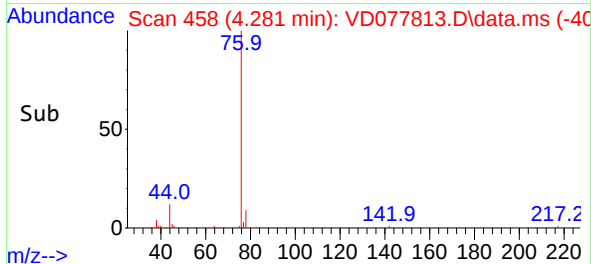
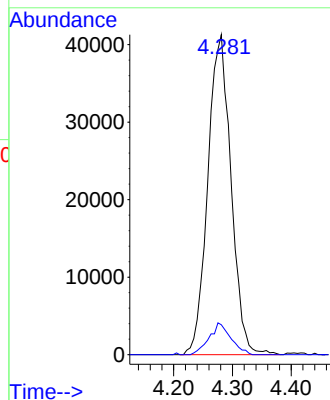
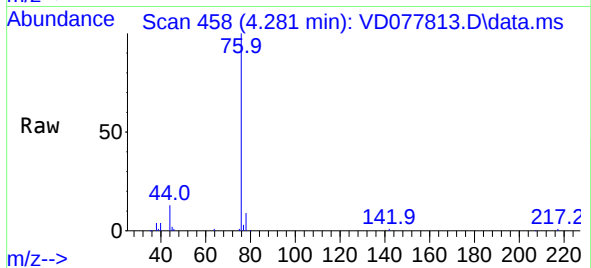




#17  
Carbon Disulfide  
Concen: 20.206 ug/l  
RT: 4.281 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

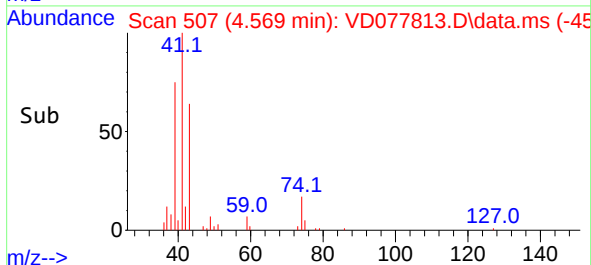
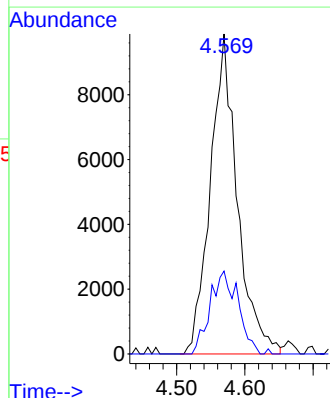
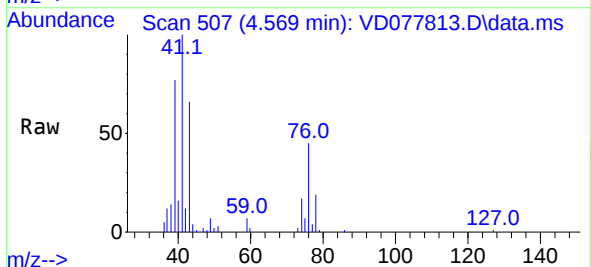
Instrument :  
MSVOA\_D  
ClientSampleId :

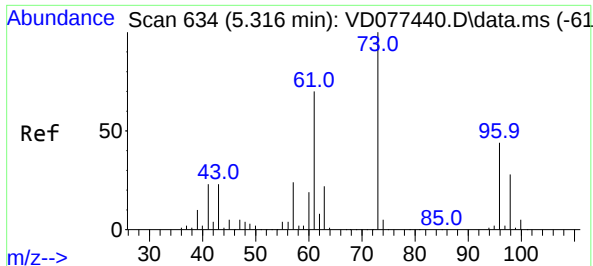
Tgt Ion: 76 Resp: 113339  
Ion Ratio Lower Upper  
76 100  
78 9.4 6.8 10.2



#18  
Methyl Acetate  
Concen: 21.195 ug/l  
RT: 4.569 min Scan# 507  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion: 43 Resp: 27130  
Ion Ratio Lower Upper  
43 100  
74 27.0 26.4 39.6





#19

Methyl tert-butyl Ether

Concen: 22.241 ug/l

RT: 5.328 min Scan# 61

Delta R.T. 0.012 min

Lab File: VD077813.D

Acq: 11 Dec 2023 16:07

Instrument :

MSVOA\_D

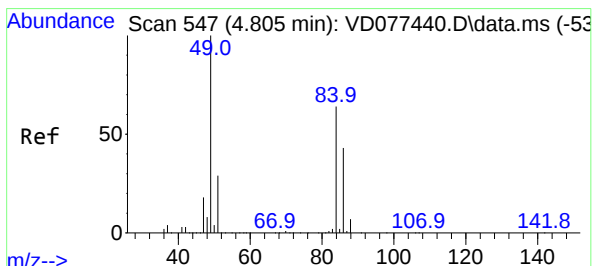
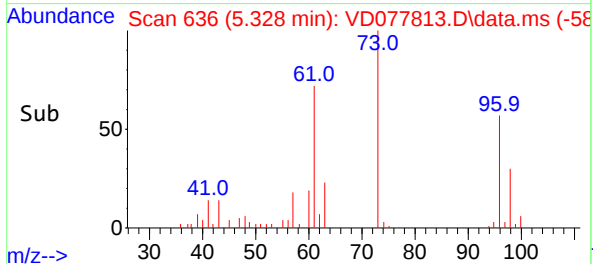
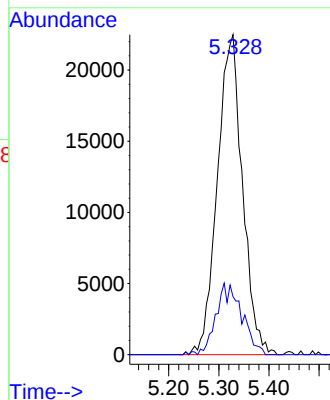
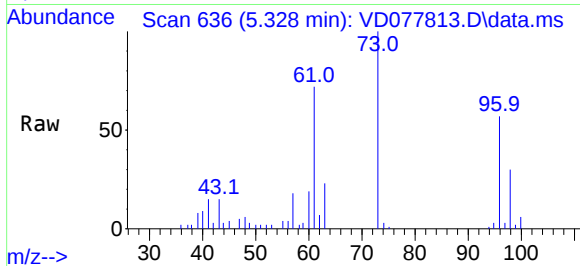
ClientSampleId :

Tgt Ion: 73 Resp: 78239

Ion Ratio Lower Upper

73 100

57 18.2 16.6 25.0



#20

Methylene Chloride

Concen: 21.192 ug/l

RT: 4.805 min Scan# 547

Delta R.T. -0.000 min

Lab File: VD077813.D

Acq: 11 Dec 2023 16:07

Tgt Ion: 84 Resp: 46164

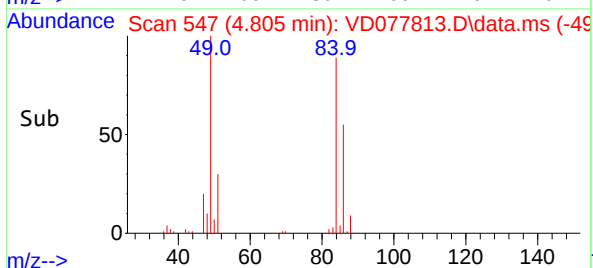
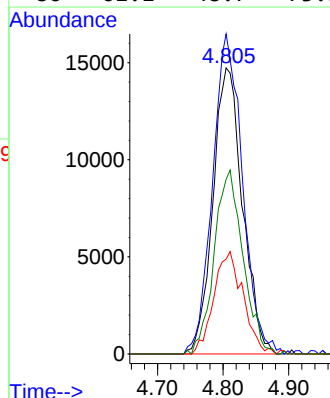
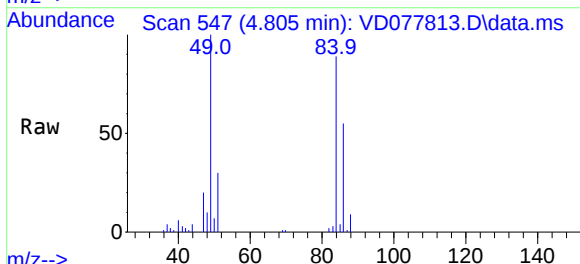
Ion Ratio Lower Upper

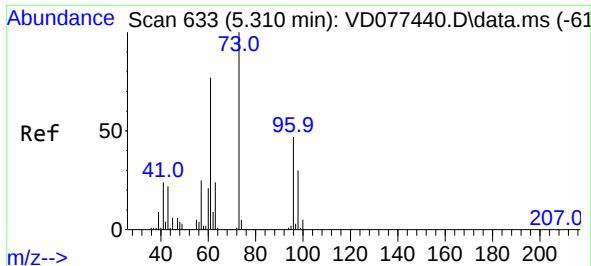
84 100

49 111.8 71.4 107.2#

51 33.2 24.5 36.7

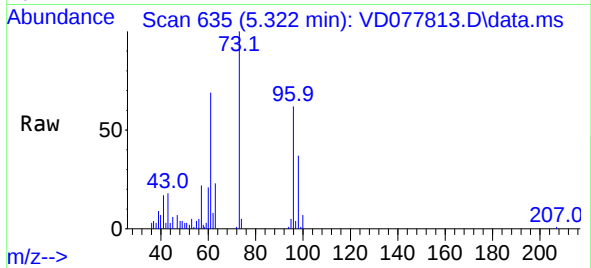
86 61.1 48.7 73.1



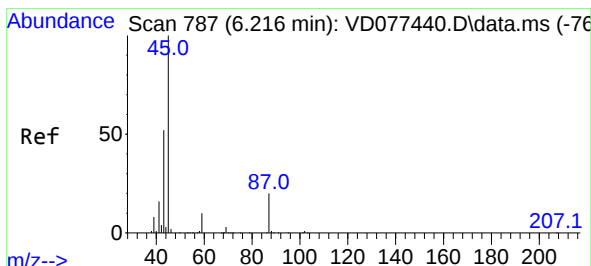
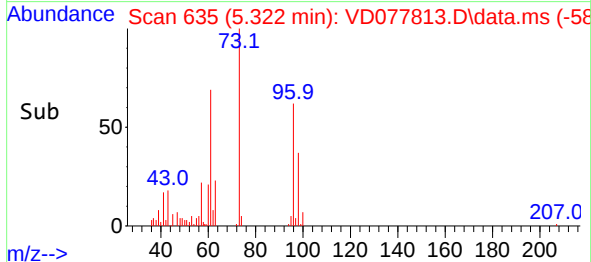
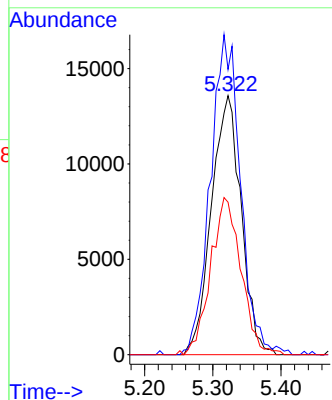


#21  
trans-1,2-Dichloroethene  
Concen: 21.948 ug/l  
RT: 5.322 min Scan# 61  
Delta R.T. 0.012 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Instrument :  
MSVOA\_D  
ClientSampleId :

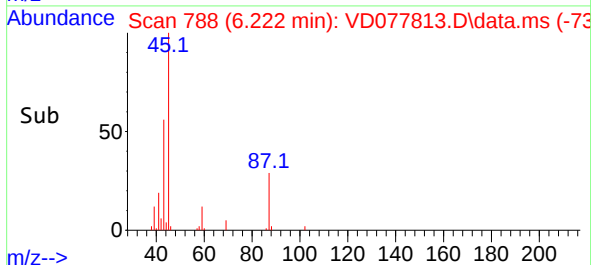
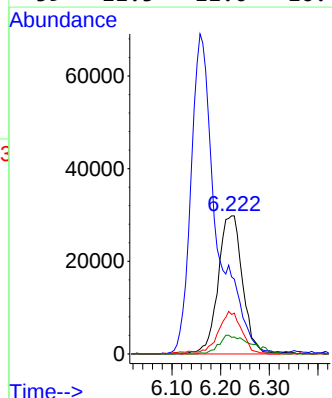
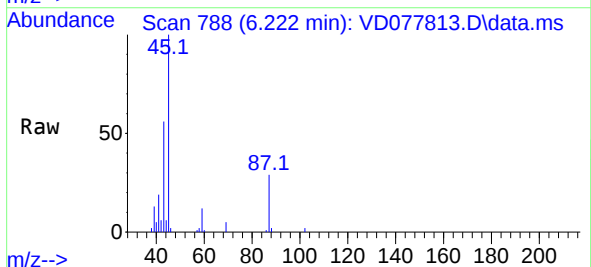


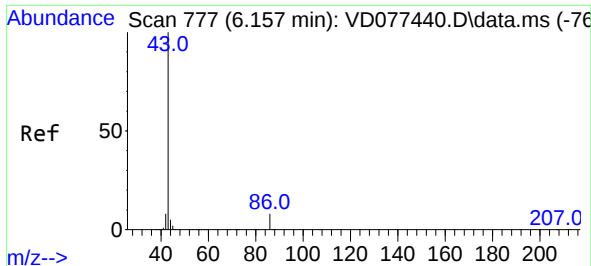
Tgt Ion: 96 Resp: 41218  
Ion Ratio Lower Upper  
96 100  
61 110.1 89.3 133.9  
98 57.5 48.6 73.0



#22  
Diisopropyl ether  
Concen: 21.795 ug/l  
RT: 6.222 min Scan# 788  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion: 45 Resp: 103857  
Ion Ratio Lower Upper  
45 100  
43 54.4 40.0 60.0  
87 28.7 28.2 42.4  
59 11.5 11.0 16.4

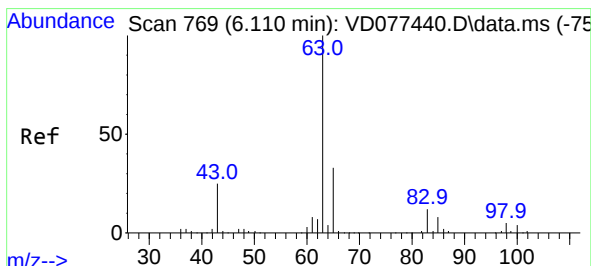
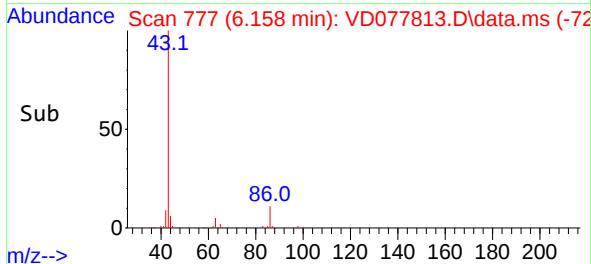
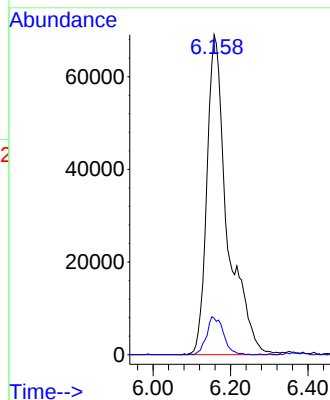
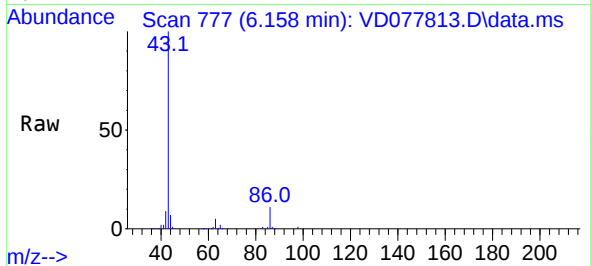




#23  
 Vinyl Acetate  
 Concen: 109.123 ug/l  
 RT: 6.158 min Scan# 71  
 Delta R.T. 0.001 min  
 Lab File: VD077813.D  
 Acq: 11 Dec 2023 16:07

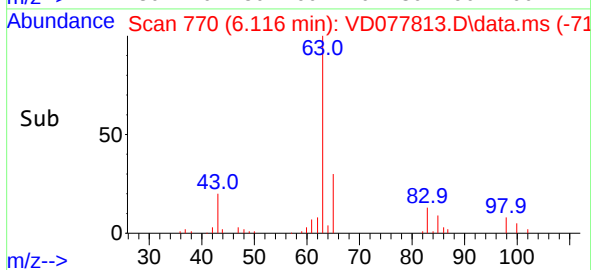
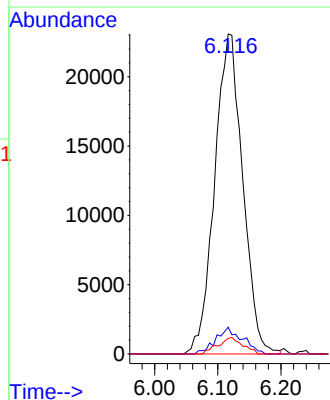
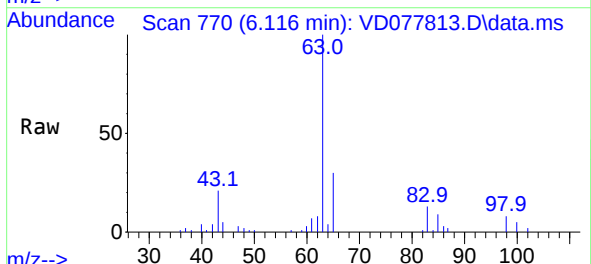
Instrument :  
 MSVOA\_D  
 ClientSampleId :

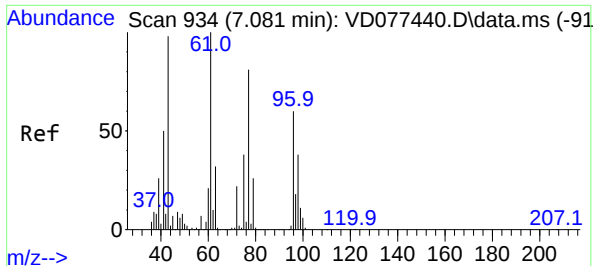
Tgt Ion: 43 Resp: 253936  
 Ion Ratio Lower Upper  
 43 100  
 86 11.4 12.5 18.7#



#24  
 1,1-Dichloroethane  
 Concen: 22.128 ug/l  
 RT: 6.116 min Scan# 770  
 Delta R.T. 0.006 min  
 Lab File: VD077813.D  
 Acq: 11 Dec 2023 16:07

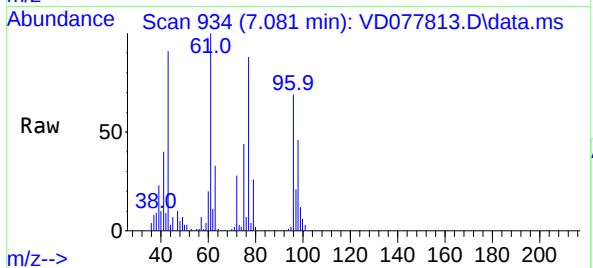
Tgt Ion: 63 Resp: 71409  
 Ion Ratio Lower Upper  
 63 100  
 98 8.4 4.5 13.7  
 100 4.8 2.5 7.5



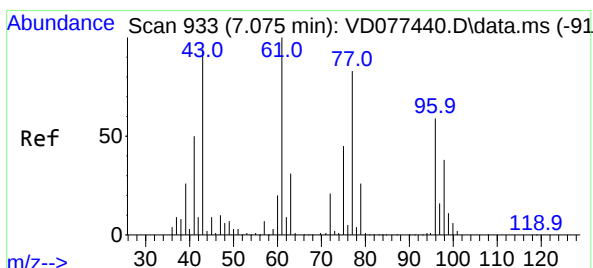
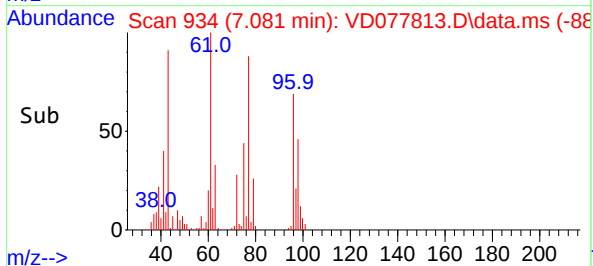
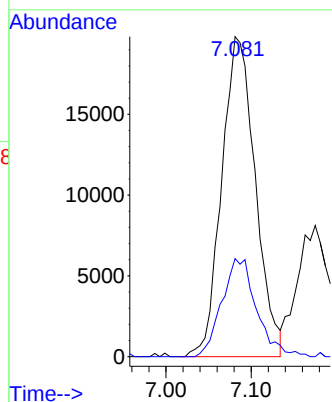


#25  
2-Butanone  
Concen: 113.374 ug/l  
RT: 7.081 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Instrument :  
MSVOA\_D  
ClientSampleId :

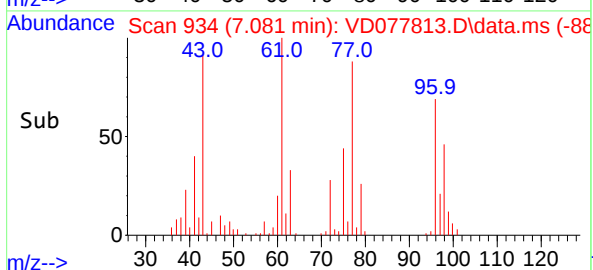
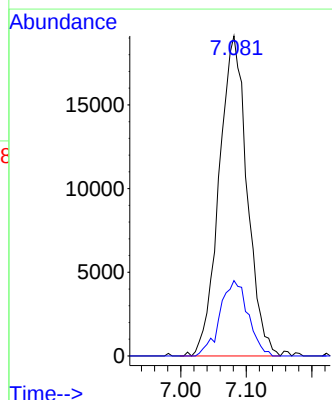
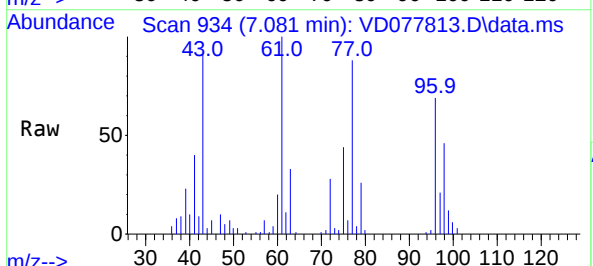


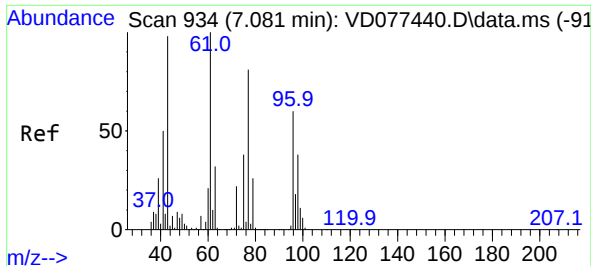
Tgt Ion: 43 Resp: 54320  
Ion Ratio Lower Upper  
43 100  
72 30.6 30.7 46.1#



#26  
2,2-Dichloropropane  
Concen: 20.951 ug/l  
RT: 7.081 min Scan# 934  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

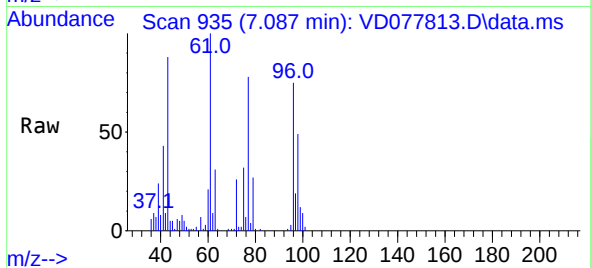
Tgt Ion: 77 Resp: 56764  
Ion Ratio Lower Upper  
77 100  
97 23.6 13.2 39.6



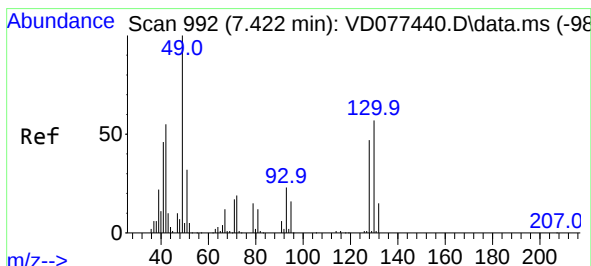
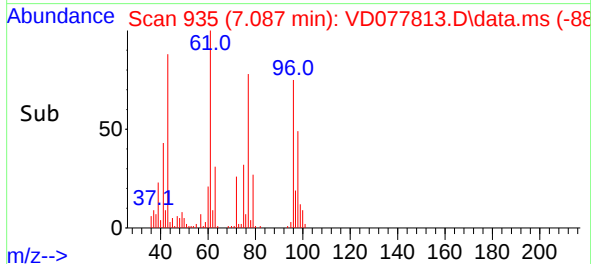
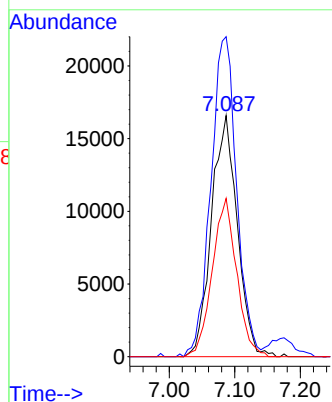


#27  
cis-1,2-Dichloroethene  
Concen: 22.459 ug/l  
RT: 7.087 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Instrument :  
MSVOA\_D  
ClientSampleId :

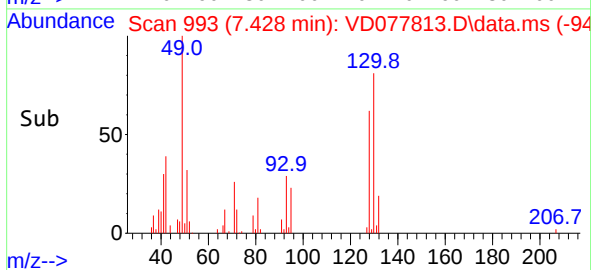
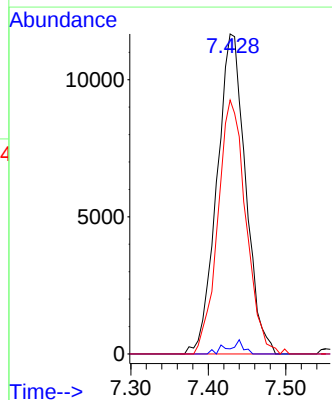
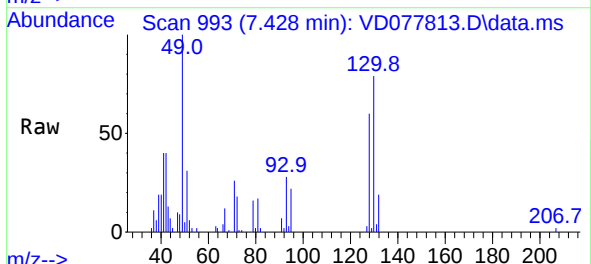


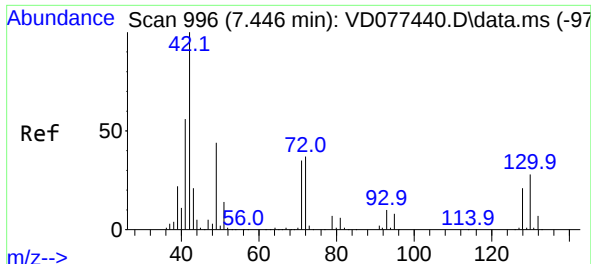
Tgt Ion: 96 Resp: 45384  
Ion Ratio Lower Upper  
96 100  
61 132.7 0.0 239.2  
98 62.2 0.0 128.6



#28  
Bromochloromethane  
Concen: 23.036 ug/l  
RT: 7.428 min Scan# 993  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion: 49 Resp: 30039  
Ion Ratio Lower Upper  
49 100  
129 2.3 0.0 6.0  
130 77.7 83.2 124.8#

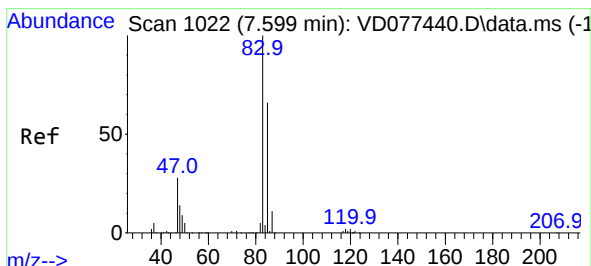
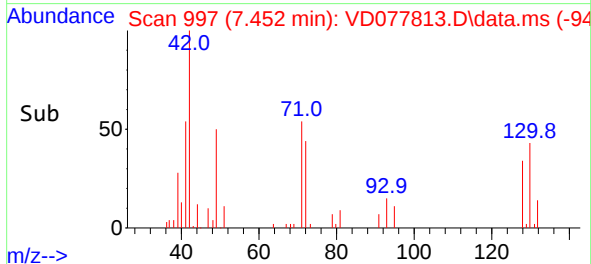
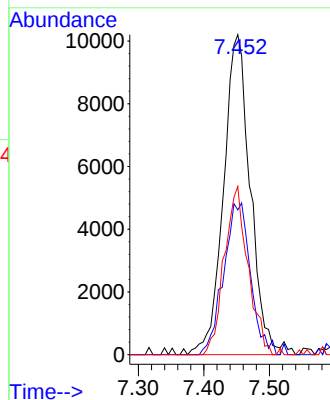
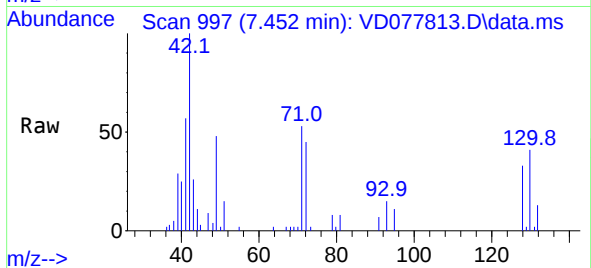




#29  
Tetrahydrofuran  
Concen: 111.235 ug/l  
RT: 7.452 min Scan# 996  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

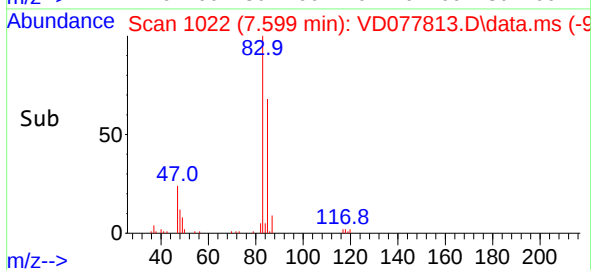
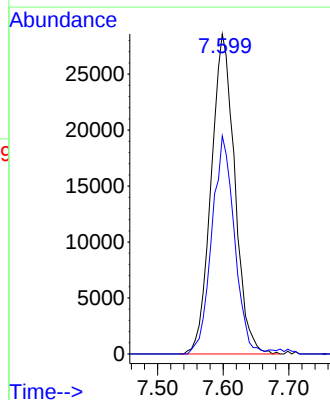
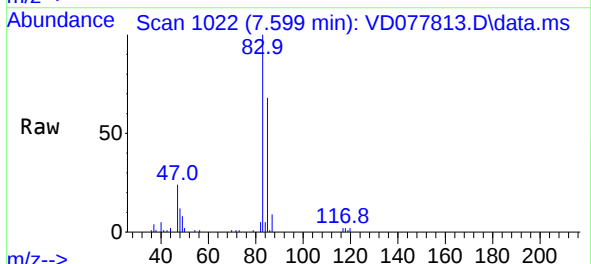
Instrument :  
MSVOA\_D  
ClientSampleId :

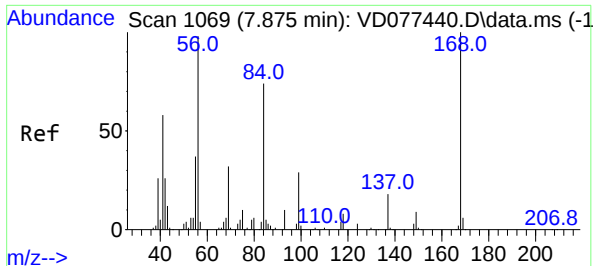
Tgt Ion: 42 Resp: 28790  
Ion Ratio Lower Upper  
42 100  
72 48.0 46.5 69.7  
71 46.9 44.5 66.7



#30  
Chloroform  
Concen: 22.063 ug/l  
RT: 7.599 min Scan# 1022  
Delta R.T. -0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion: 83 Resp: 71256  
Ion Ratio Lower Upper  
83 100  
85 68.2 53.4 80.2





#31

Cyclohexane

Concen: 20.240 ug/l

RT: 7.881 min Scan# 1069

Delta R.T. 0.006 min

Lab File: VD077813.D

Acq: 11 Dec 2023 16:07

Instrument :

MSVOA\_D

ClientSampleId :

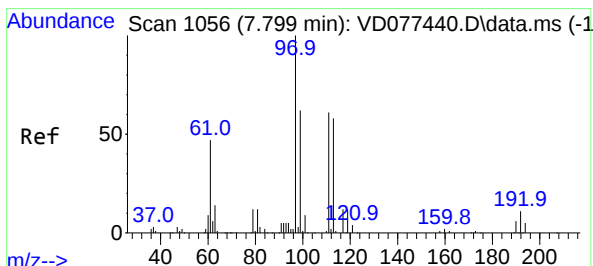
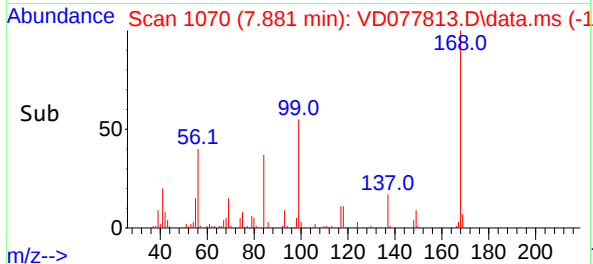
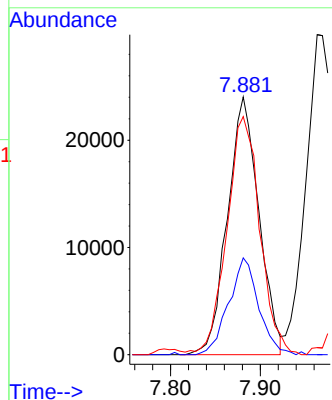
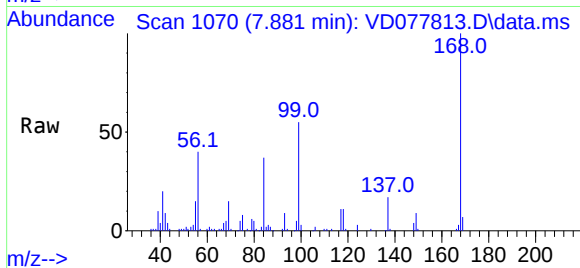
Tgt Ion: 56 Resp: 58513

Ion Ratio Lower Upper

56 100

69 37.5 28.6 43.0

84 91.0 84.8 127.2



#32

1,1,1-Trichloroethane

Concen: 21.162 ug/l

RT: 7.793 min Scan# 1055

Delta R.T. -0.006 min

Lab File: VD077813.D

Acq: 11 Dec 2023 16:07

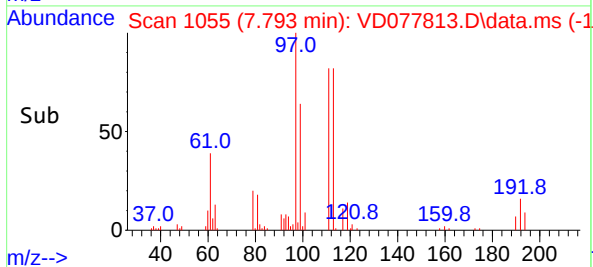
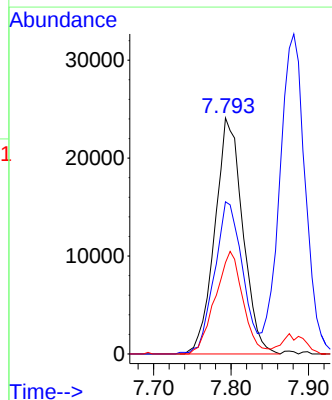
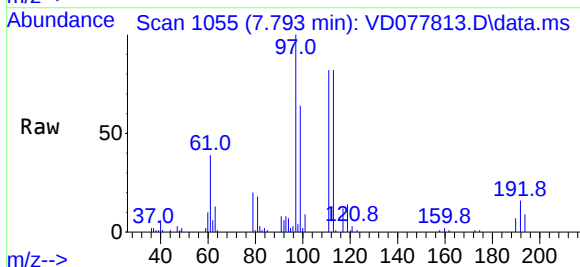
Tgt Ion: 97 Resp: 60253

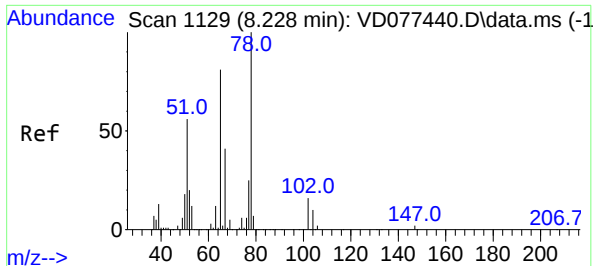
Ion Ratio Lower Upper

97 100

99 64.6 52.0 78.0

61 43.5 33.8 50.8

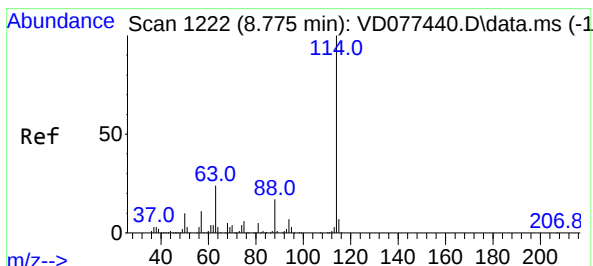
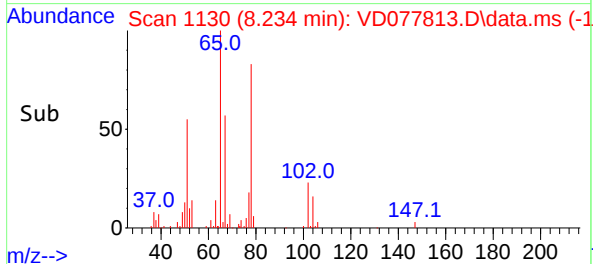
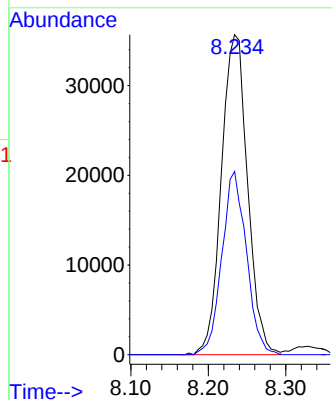
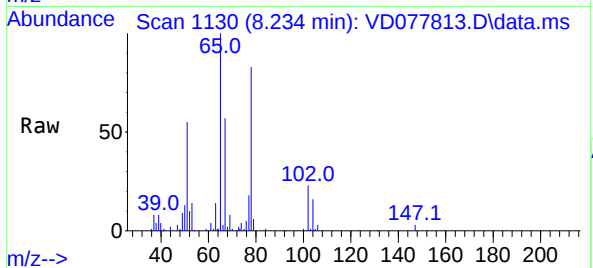




#33  
1,2-Dichloroethane-d4  
Concen: 51.588 ug/l  
RT: 8.234 min Scan# 1129  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

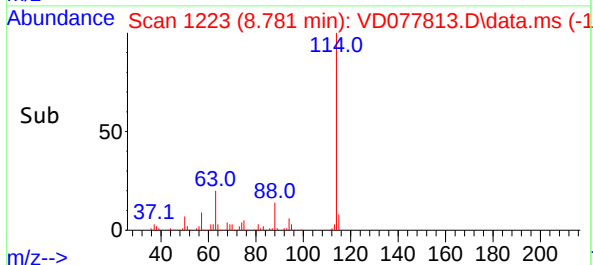
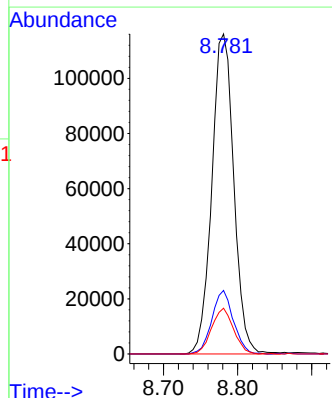
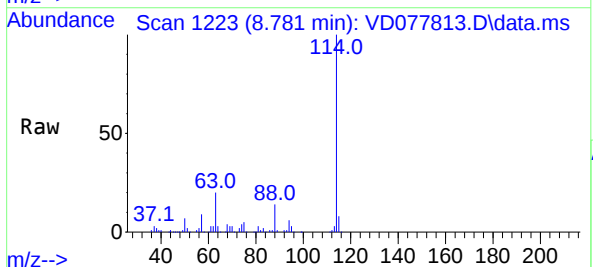
Instrument :  
MSVOA\_D  
ClientSampleId :

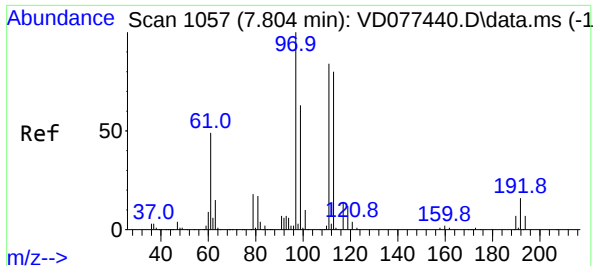
Tgt Ion: 65 Resp: 83848  
Ion Ratio Lower Upper  
65 100  
67 53.7 0.0 115.0



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.781 min Scan# 1223  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

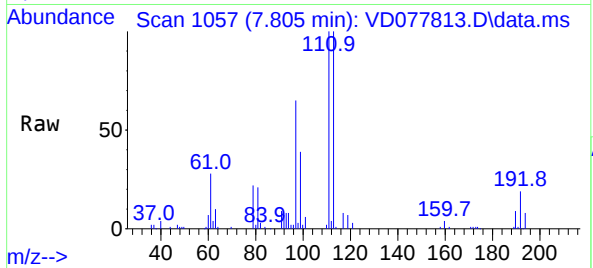
Tgt Ion: 114 Resp: 238942  
Ion Ratio Lower Upper  
114 100  
63 19.8 0.0 33.4  
88 14.3 0.0 26.2



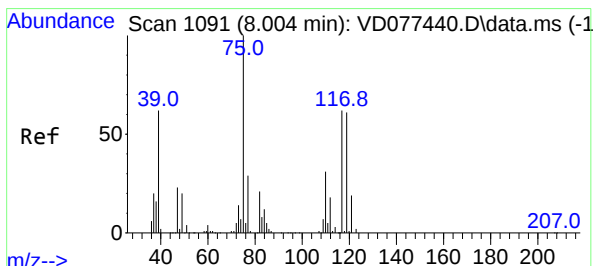
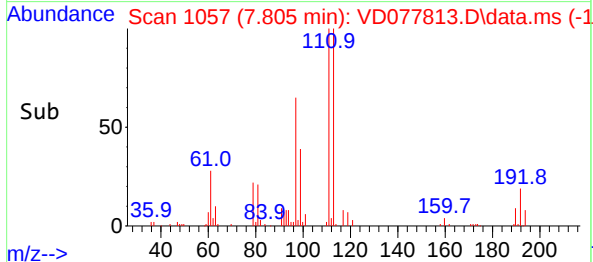
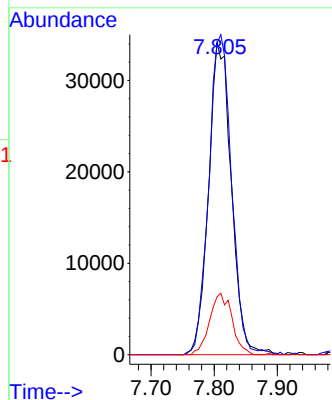


#35  
Dibromofluoromethane  
Concen: 51.113 ug/l  
RT: 7.805 min Scan# 1057  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Instrument :  
MSVOA\_D  
ClientSampleId :

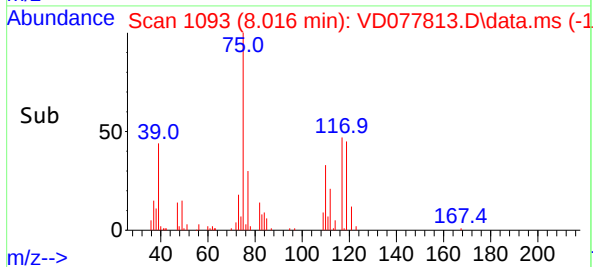
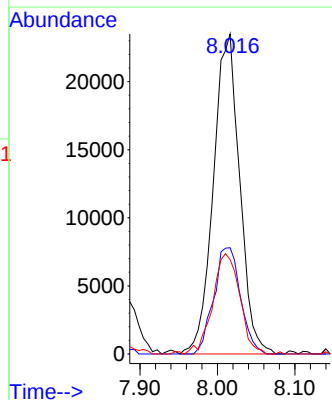
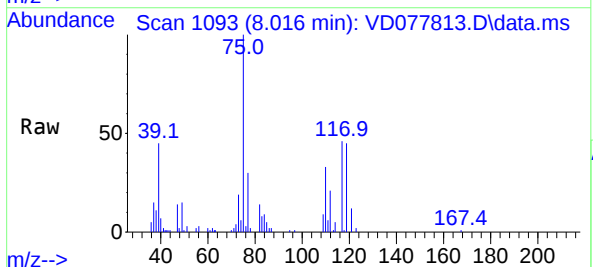


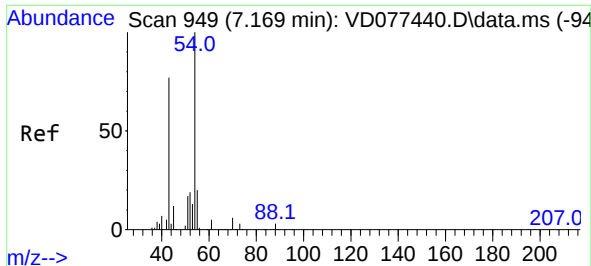
Tgt Ion:113 Resp: 85548  
Ion Ratio Lower Upper  
113 100  
111 102.7 84.7 127.1  
192 19.3 16.8 25.2



#36  
1,1-Dichloropropene  
Concen: 20.722 ug/l  
RT: 8.016 min Scan# 1093  
Delta R.T. 0.012 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

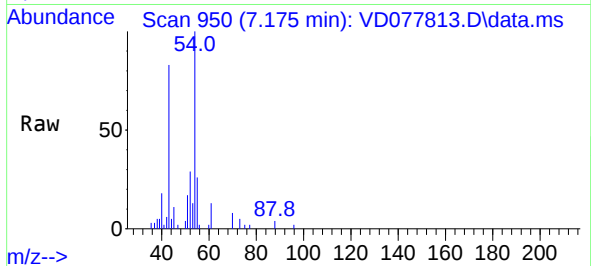
Tgt Ion: 75 Resp: 55476  
Ion Ratio Lower Upper  
75 100  
110 33.8 19.9 59.6  
77 32.4 24.7 37.1



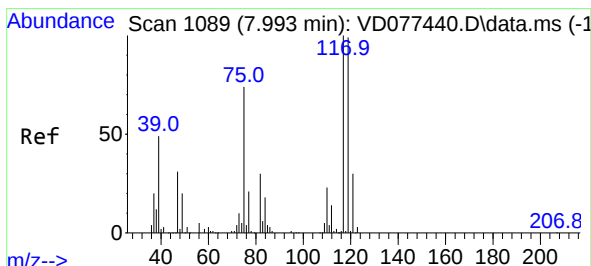
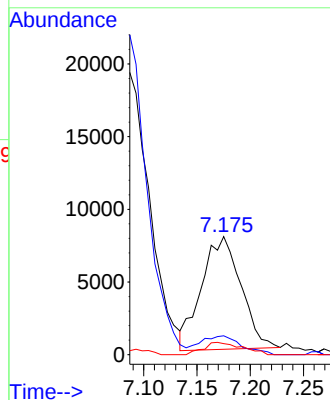
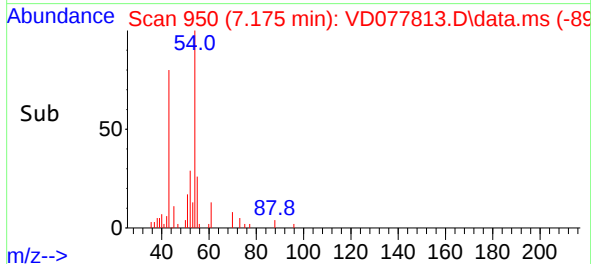


#37  
Ethyl Acetate  
Concen: 19.155 ug/l  
RT: 7.175 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Instrument :  
MSVOA\_D  
ClientSampleId :

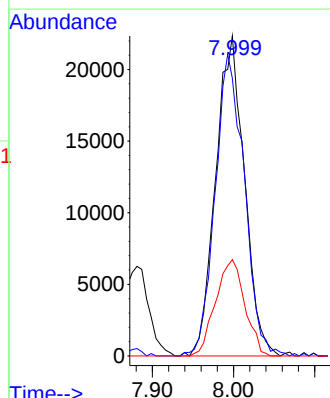
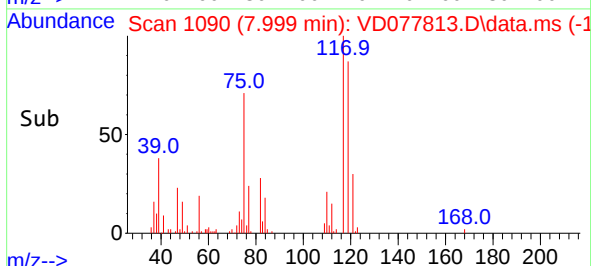
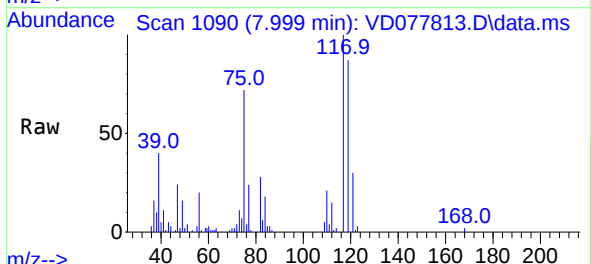


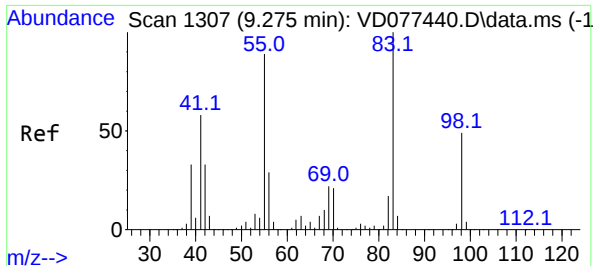
Tgt Ion: 43 Resp: 19996  
Ion Ratio Lower Upper  
43 100  
61 17.5 14.9 22.3  
70 10.7 10.0 15.0



#38  
Carbon Tetrachloride  
Concen: 20.590 ug/l  
RT: 7.999 min Scan# 1090  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion: 117 Resp: 54953  
Ion Ratio Lower Upper  
117 100  
119 86.8 78.0 117.0  
121 30.1 24.2 36.2

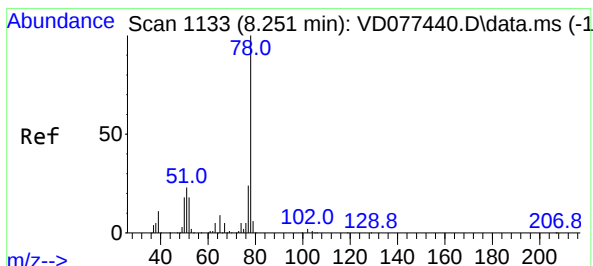
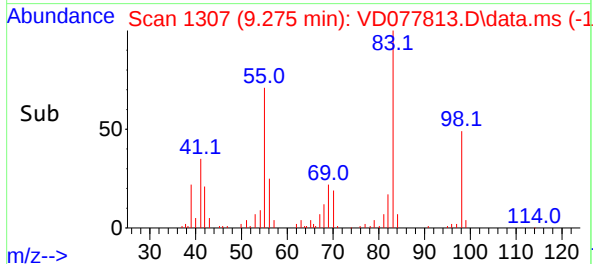
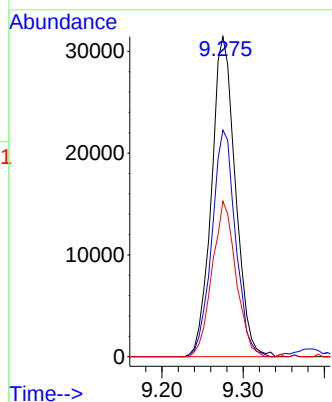
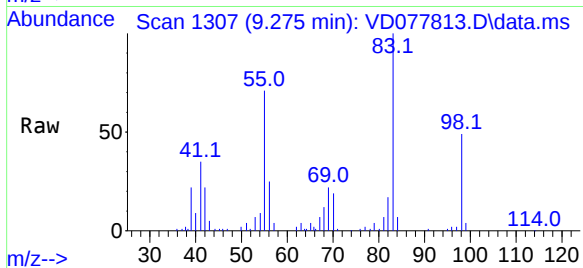




#39  
Methylcyclohexane  
Concen: 20.297 ug/l  
RT: 9.275 min Scan# 1137  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

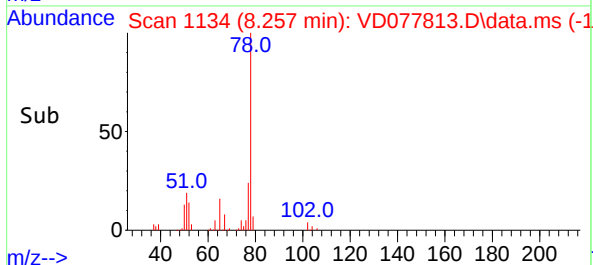
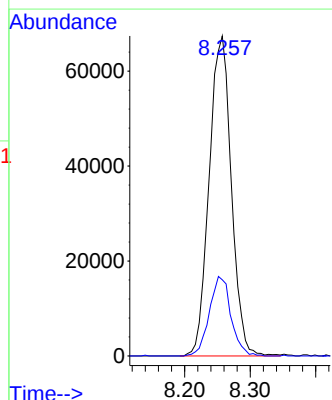
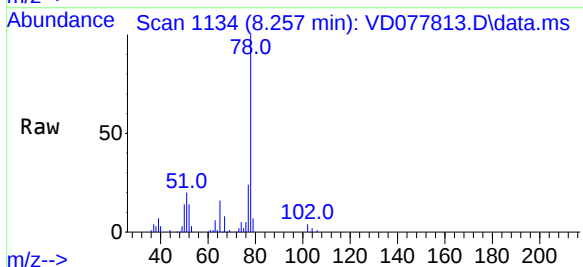
Instrument :  
MSVOA\_D  
ClientSampleId :

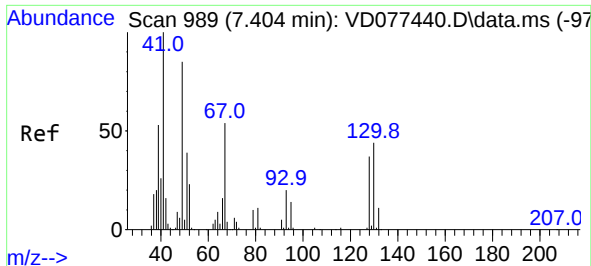
Tgt Ion: 83 Resp: 64417  
Ion Ratio Lower Upper  
83 100  
55 70.8 49.4 74.0  
98 48.6 38.4 57.6



#40  
Benzene  
Concen: 20.854 ug/l  
RT: 8.257 min Scan# 1134  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

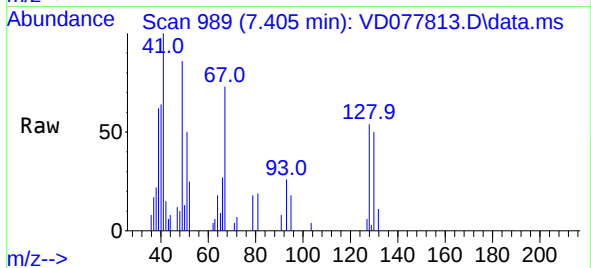
Tgt Ion: 78 Resp: 158456  
Ion Ratio Lower Upper  
78 100  
77 23.8 19.4 29.0



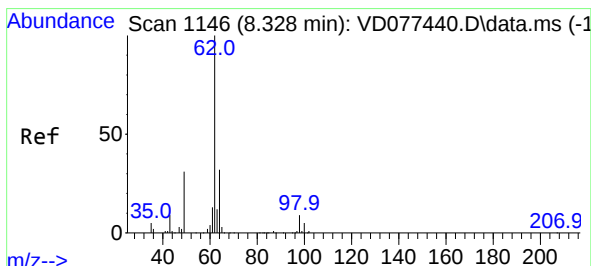
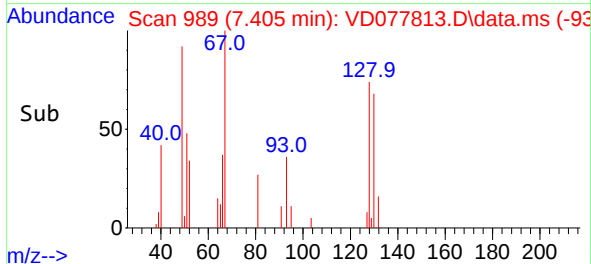
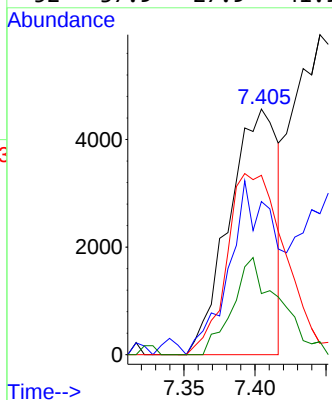


#41  
Methacrylonitrile  
Concen: 20.391 ug/l  
RT: 7.405 min Scan# 91  
Delta R.T. 0.001 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Instrument :  
MSVOA\_D  
ClientSampleId :

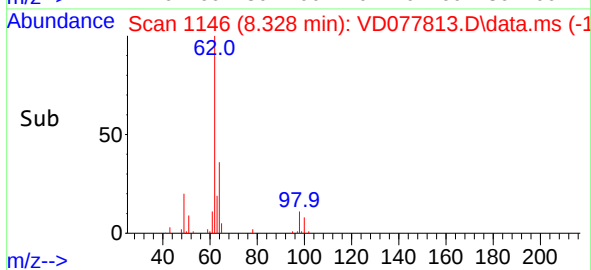
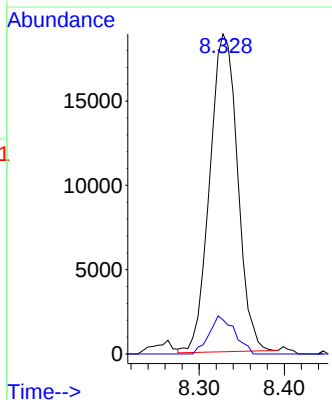
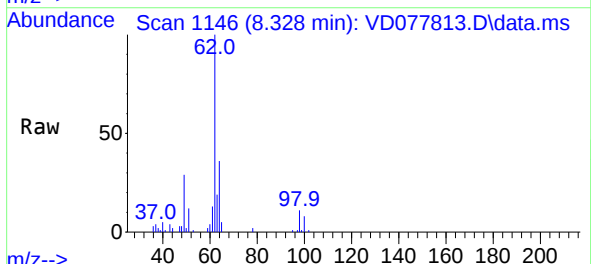


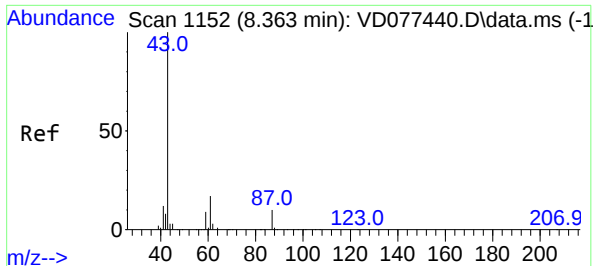
Tgt Ion: 41 Resp: 10819  
Ion Ratio Lower Upper  
41 100  
39 67.9 34.0 51.0#  
67 89.2 77.0 115.4  
52 37.9 27.9 41.9



#42  
1,2-Dichloroethane  
Concen: 21.714 ug/l  
RT: 8.328 min Scan# 1146  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion: 62 Resp: 42768  
Ion Ratio Lower Upper  
62 100  
98 10.9 0.0 25.4





#43

Isopropyl Acetate

Concen: 20.987 ug/l

RT: 8.363 min Scan# 1152

Delta R.T. 0.000 min

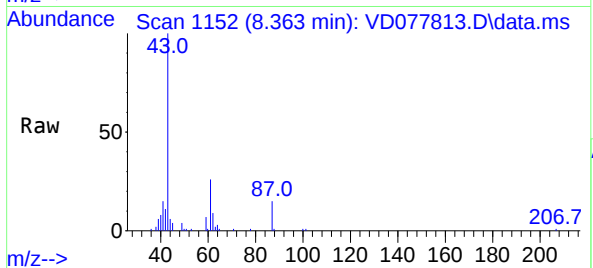
Lab File: VD077813.D

Acq: 11 Dec 2023 16:07

Instrument :

MSVOA\_D

ClientSampleId :



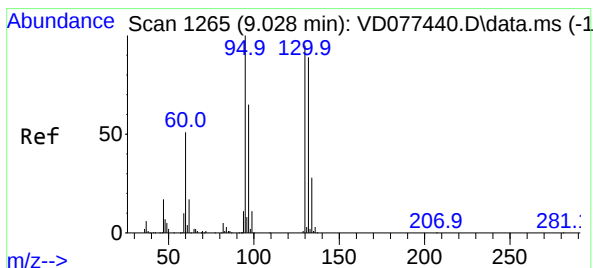
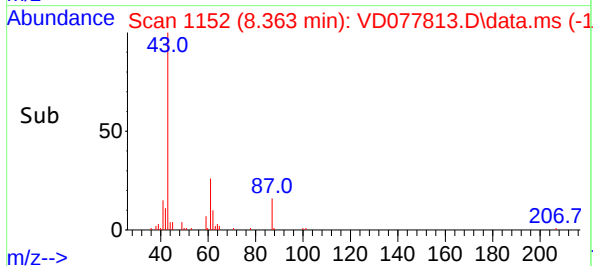
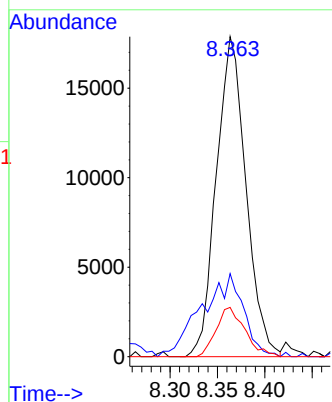
Tgt Ion: 43 Resp: 38945

Ion Ratio Lower Upper

43 100

61 36.8 31.4 47.0

87 15.0 14.9 22.3



#44

Trichloroethene

Concen: 20.650 ug/l

RT: 9.034 min Scan# 1266

Delta R.T. 0.006 min

Lab File: VD077813.D

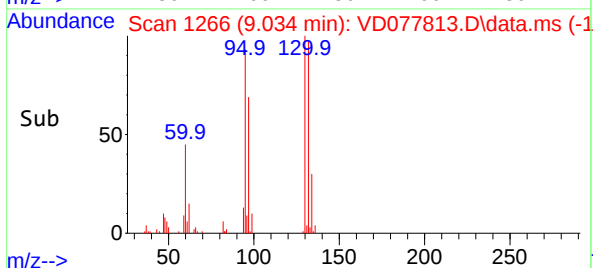
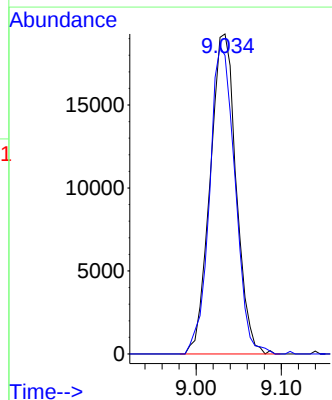
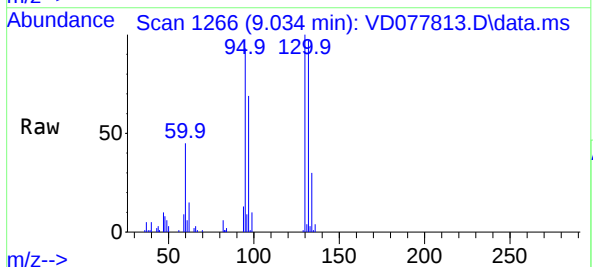
Acq: 11 Dec 2023 16:07

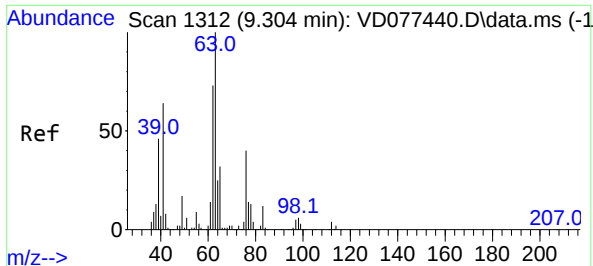
Tgt Ion:130 Resp: 40890

Ion Ratio Lower Upper

130 100

95 93.3 0.0 179.2

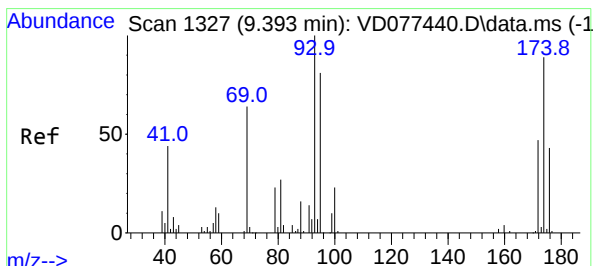
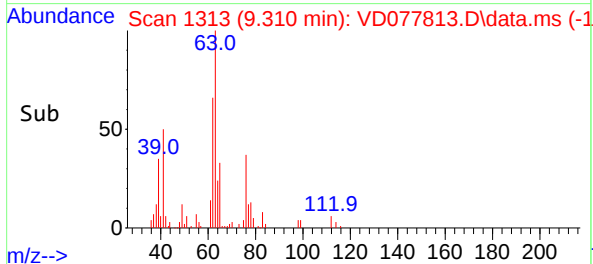
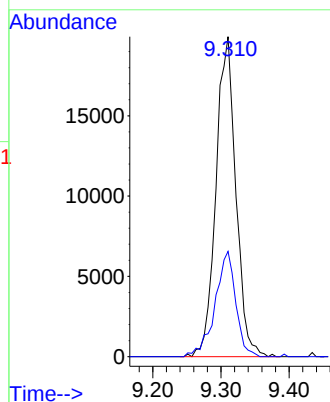
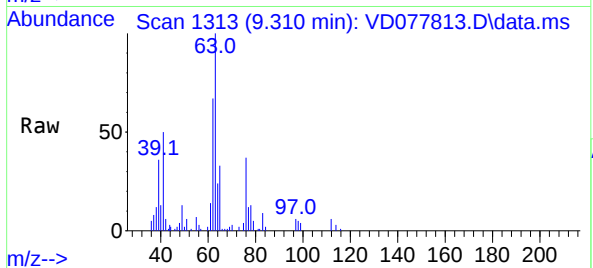




#45  
1,2-Dichloropropane  
Concen: 21.906 ug/l  
RT: 9.310 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

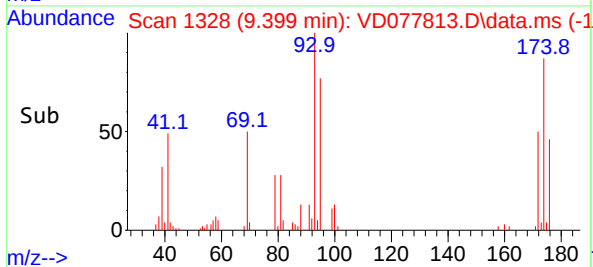
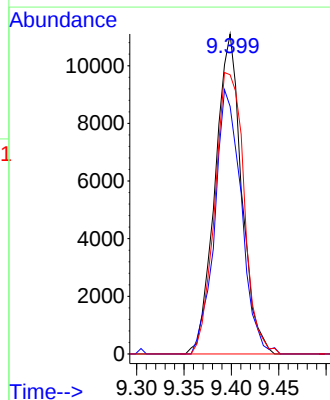
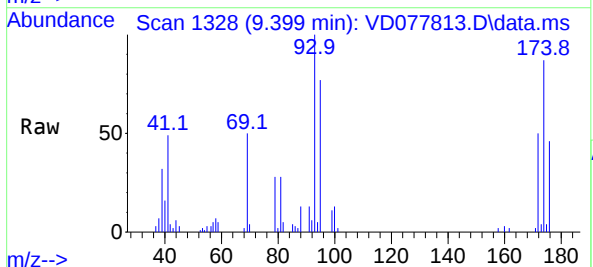
Instrument :  
MSVOA\_D  
ClientSampleId :

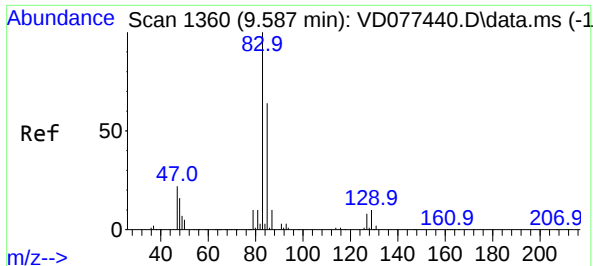
Tgt Ion: 63 Resp: 40463  
Ion Ratio Lower Upper  
63 100  
65 32.9 24.5 36.7



#46  
Dibromomethane  
Concen: 22.062 ug/l  
RT: 9.399 min Scan# 1328  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion: 93 Resp: 21562  
Ion Ratio Lower Upper  
93 100  
95 83.2 67.7 101.5  
174 96.9 85.4 128.2

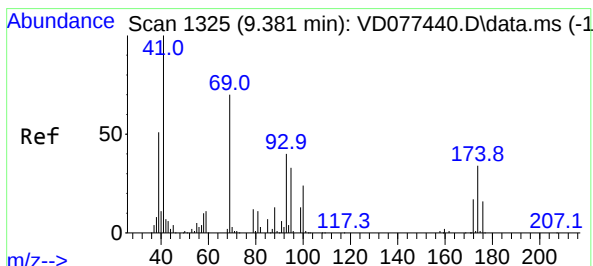
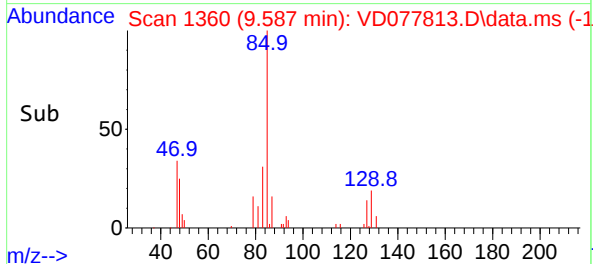
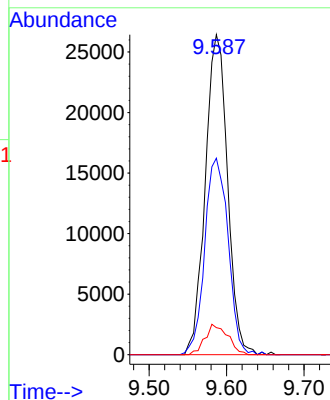
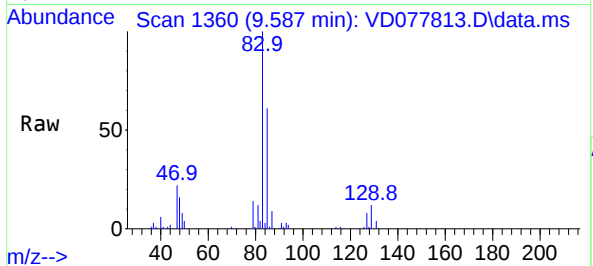




#47  
Bromodichloromethane  
Concen: 21.305 ug/l  
RT: 9.587 min Scan# 1360  
Delta R.T. -0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

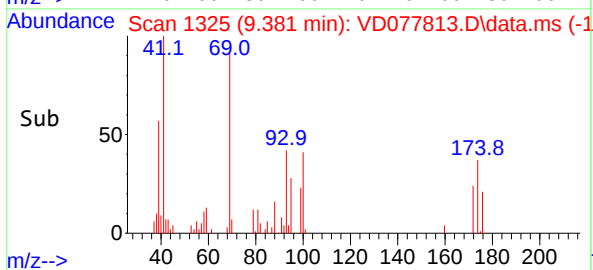
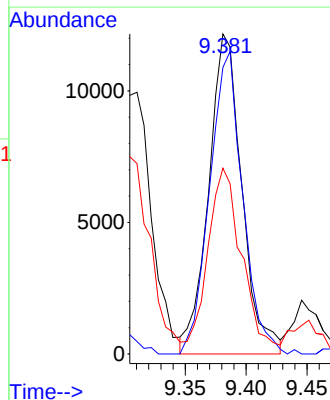
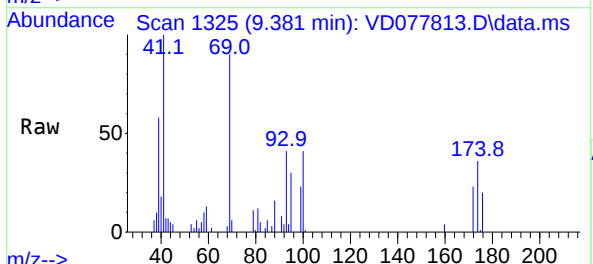
Instrument :  
MSVOA\_D  
ClientSampleId :

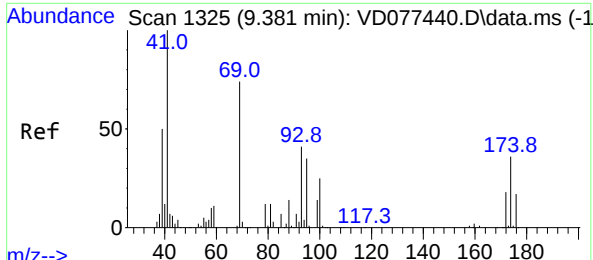
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 61.4  | 50.2  | 75.4  |
| 127     | 8.5   | 6.3   | 9.5   |



#48  
Methyl methacrylate  
Concen: 21.871 ug/l  
RT: 9.381 min Scan# 1325  
Delta R.T. -0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 41      | 100   |       |        |
| 69      | 94.0  | 102.2 | 153.2# |
| 39      | 60.1  | 41.4  | 62.2   |

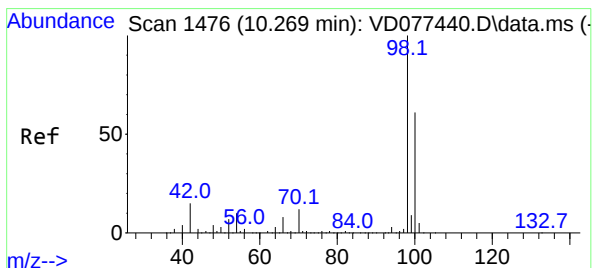
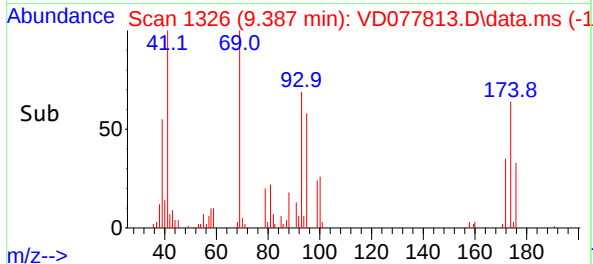
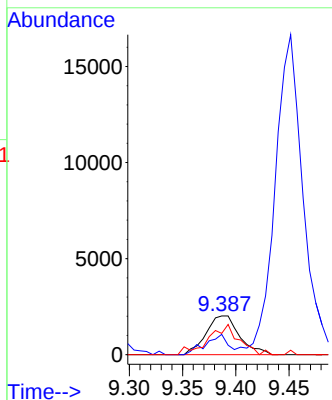
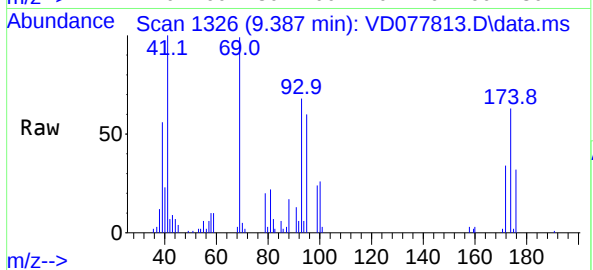




#49  
1,4-Dioxane  
Concen: 455.856 ug/l  
RT: 9.387 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

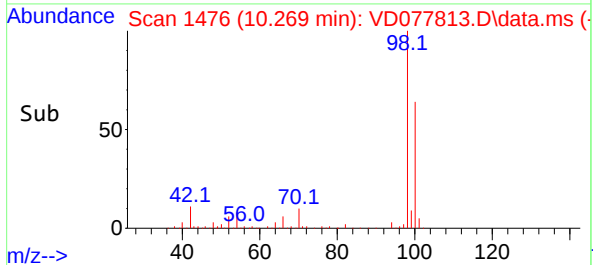
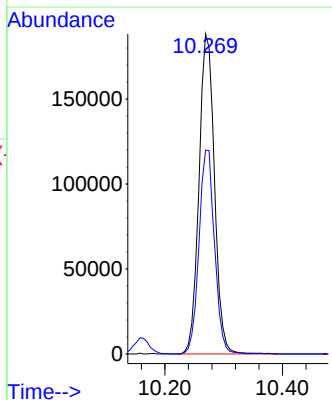
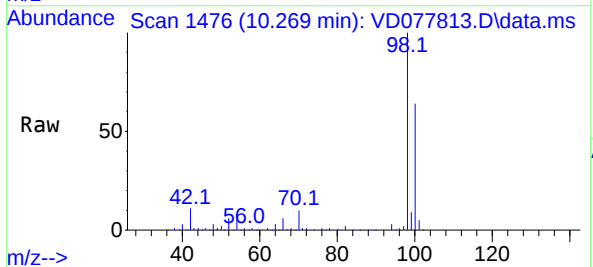
Instrument :  
MSVOA\_D  
ClientSampleId :

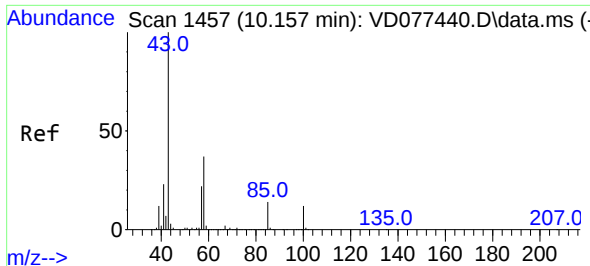
Tgt Ion: 88 Resp: 4424  
Ion Ratio Lower Upper  
88 100  
43 34.7 19.0 28.6#  
58 71.1 43.5 65.3#



#50  
Toluene-d8  
Concen: 51.352 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion: 98 Resp: 344232  
Ion Ratio Lower Upper  
98 100  
100 64.0 50.3 75.5

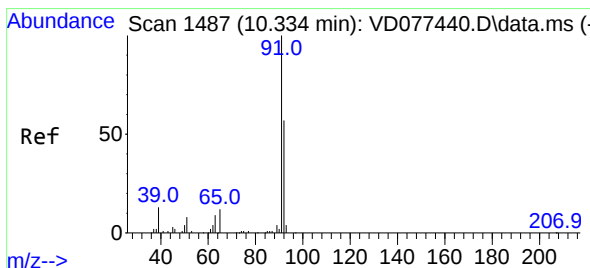
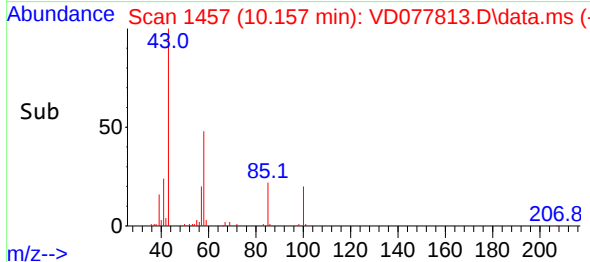
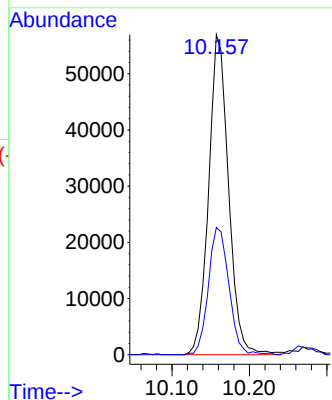
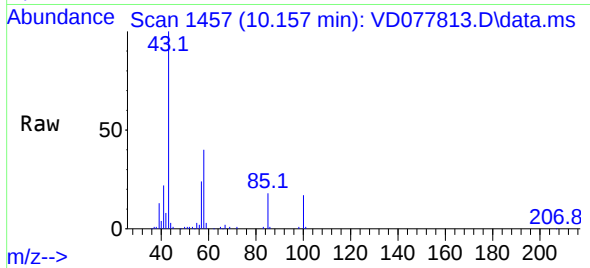




#51  
4-Methyl-2-Pentanone  
Concen: 107.238 ug/l  
RT: 10.157 min Scan# 1457  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

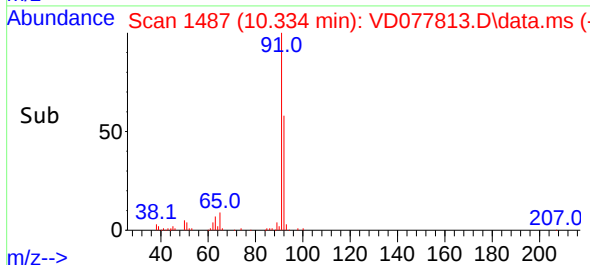
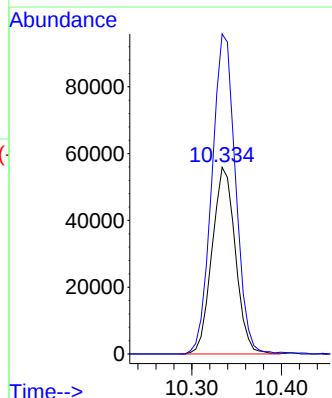
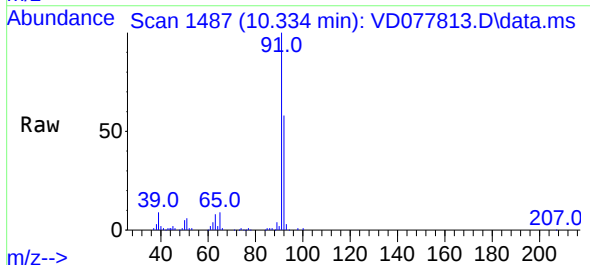
Instrument :  
MSVOA\_D  
ClientSampleId :

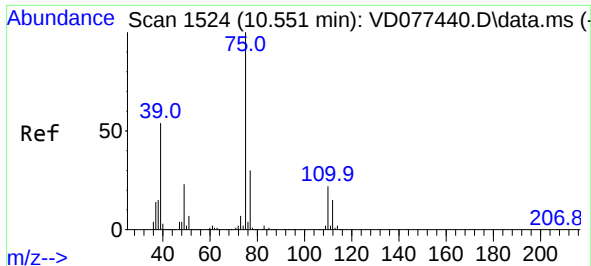
Tgt Ion: 43 Resp: 101560  
Ion Ratio Lower Upper  
43 100  
58 41.1 38.9 58.3



#52  
Toluene  
Concen: 21.455 ug/l  
RT: 10.334 min Scan# 1487  
Delta R.T. -0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion: 92 Resp: 101127  
Ion Ratio Lower Upper  
92 100  
91 174.3 143.0 214.4

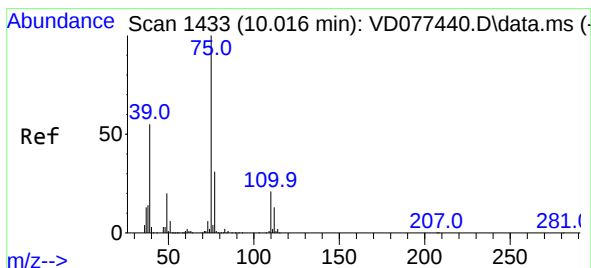
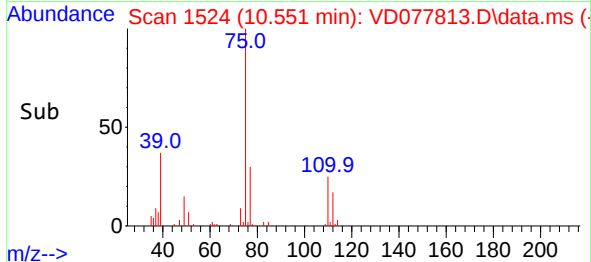
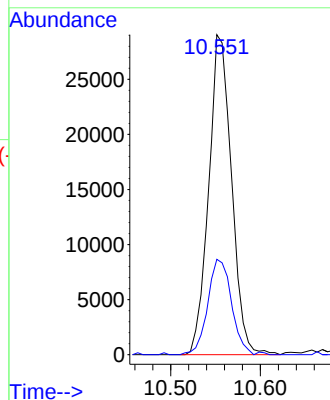
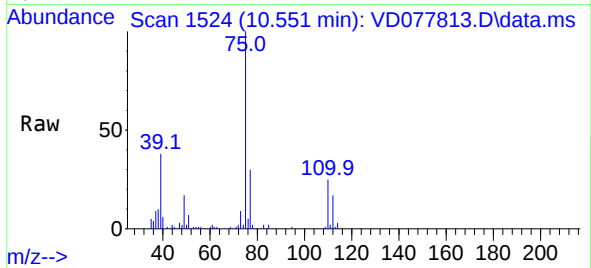




#53  
t-1,3-Dichloropropene  
Concen: 21.602 ug/l  
RT: 10.551 min Scan# 1524  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

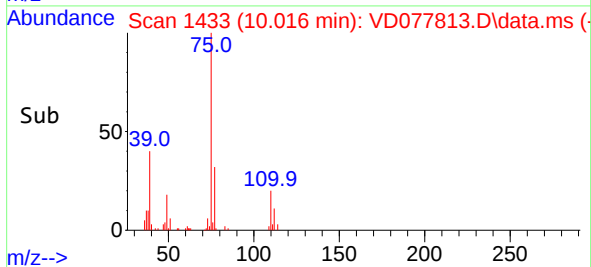
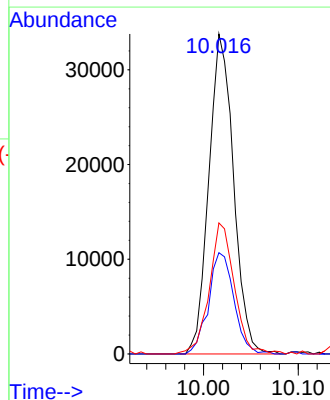
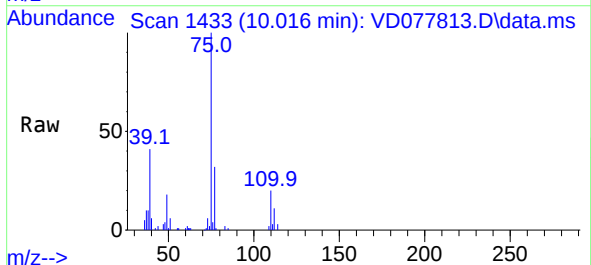
Instrument :  
MSVOA\_D  
ClientSampleId :

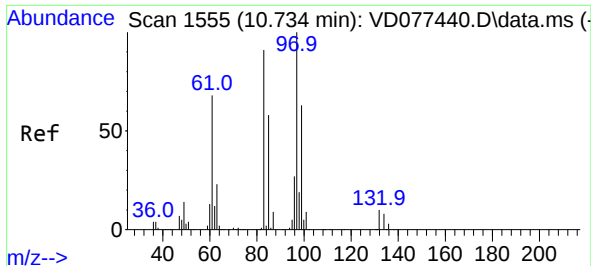
Tgt Ion: 75 Resp: 51389  
Ion Ratio Lower Upper  
75 100  
77 29.8 25.3 37.9



#54  
cis-1,3-Dichloropropene  
Concen: 21.282 ug/l  
RT: 10.016 min Scan# 1433  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

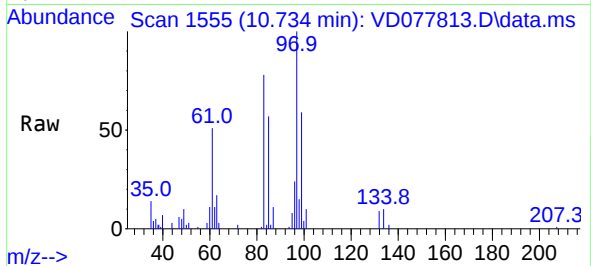
Tgt Ion: 75 Resp: 61210  
Ion Ratio Lower Upper  
75 100  
77 31.7 25.5 38.3  
39 40.4 22.1 33.1#



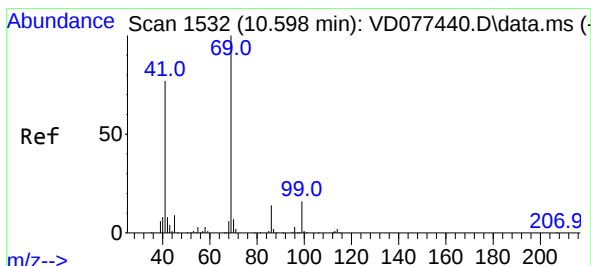
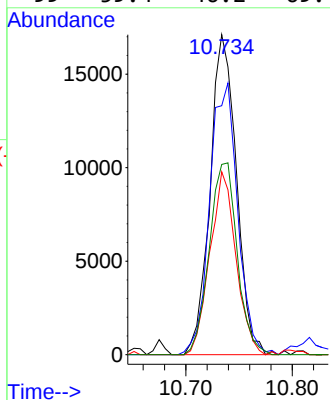
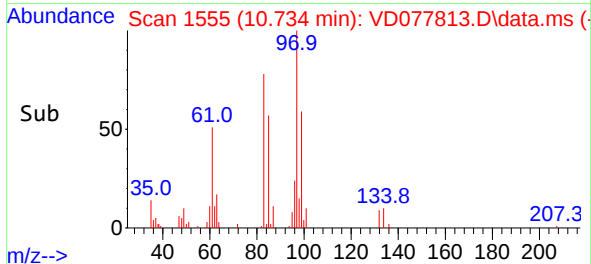


#55  
1,1,2-Trichloroethane  
Concen: 21.933 ug/l  
RT: 10.734 min Scan# 1555  
Delta R.T. -0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

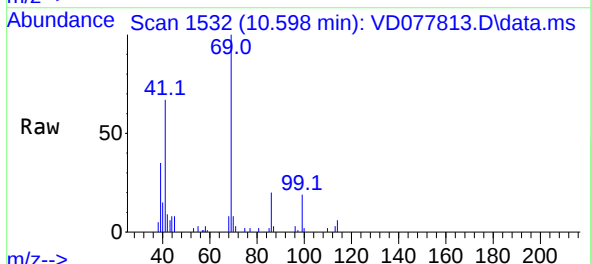
Instrument :  
MSVOA\_D  
ClientSampleId :



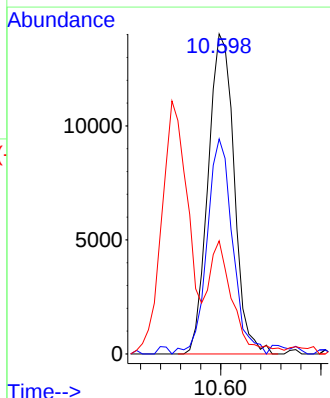
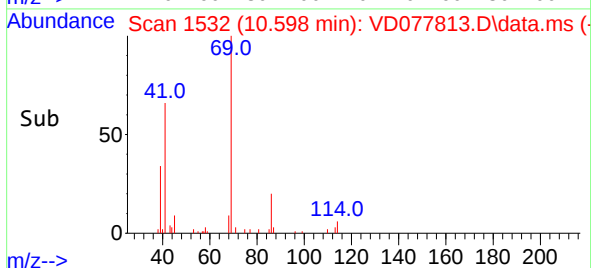
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 29321 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 77.8  | 65.8  | 98.6  |
| 85       | 57.2  | 45.7  | 68.5  |
| 99       | 59.4  | 46.2  | 69.4  |

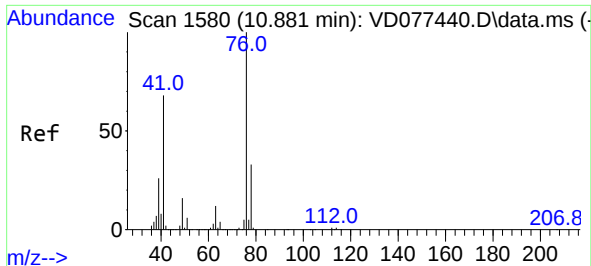


#56  
Ethyl methacrylate  
Concen: 21.443 ug/l  
RT: 10.598 min Scan# 1532  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 25270 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 65.8  | 39.1  | 58.7# |
| 39       | 32.4  | 20.0  | 30.0# |





#57

1,3-Dichloropropane

Concen: 21.640 ug/l

RT: 10.881 min Scan# 1580

Delta R.T. -0.000 min

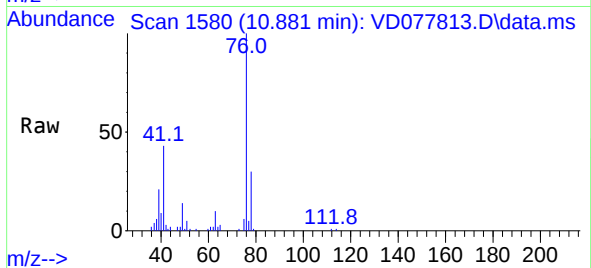
Lab File: VD077813.D

Acq: 11 Dec 2023 16:07

Instrument :

MSVOA\_D

ClientSampleId :

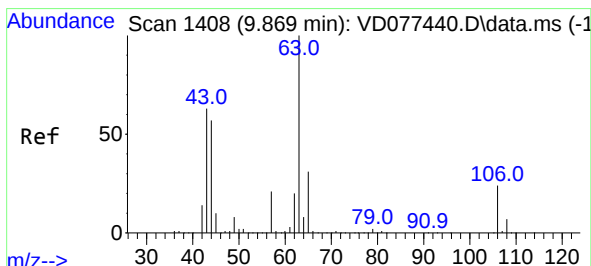
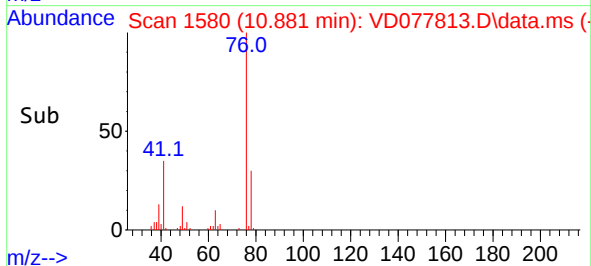
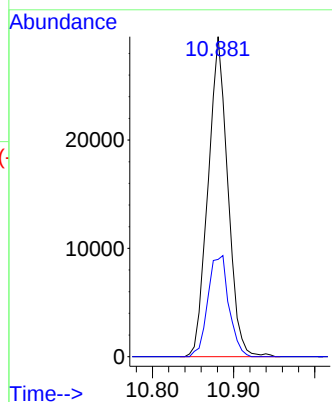


Tgt Ion: 76 Resp: 49866

Ion Ratio Lower Upper

76 100

78 33.6 26.4 39.6



#58

2-Chloroethyl Vinyl ether

Concen: 105.261 ug/l

RT: 9.869 min Scan# 1408

Delta R.T. 0.000 min

Lab File: VD077813.D

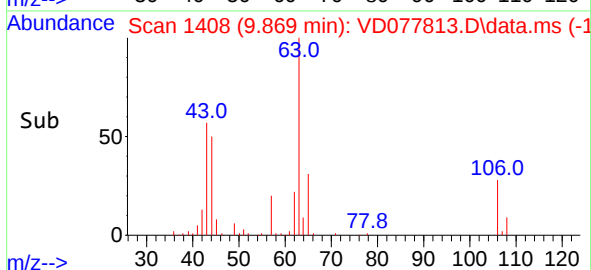
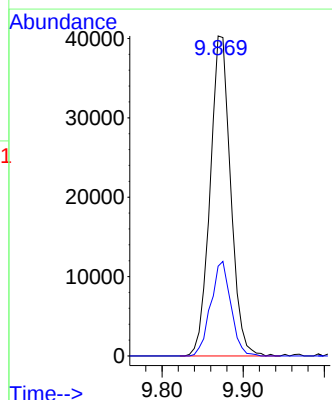
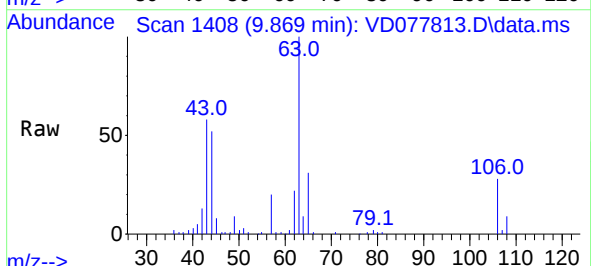
Acq: 11 Dec 2023 16:07

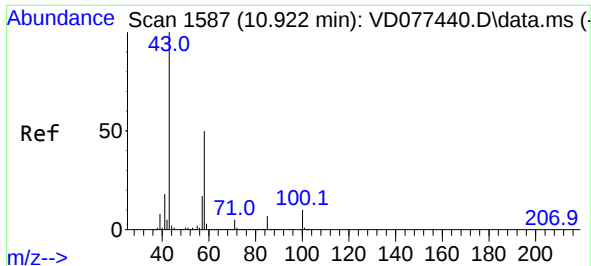
Tgt Ion: 63 Resp: 70742

Ion Ratio Lower Upper

63 100

106 29.0 25.3 37.9

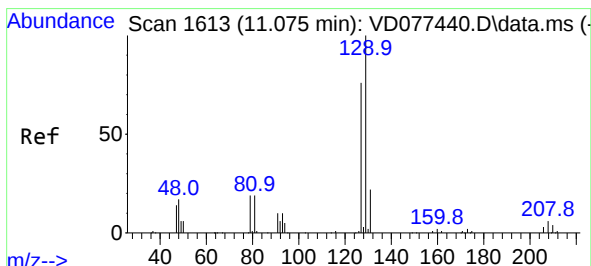
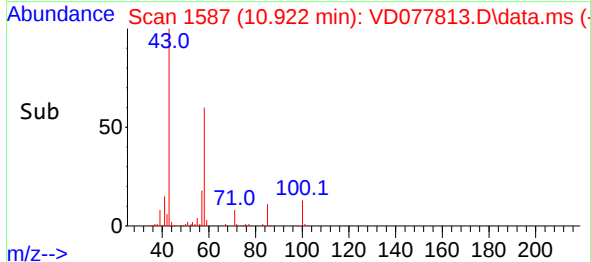
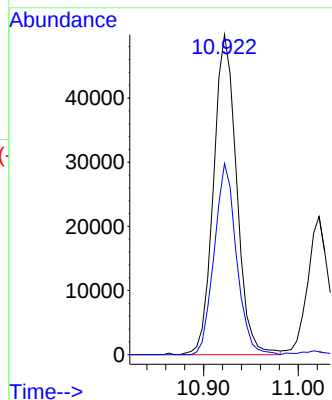
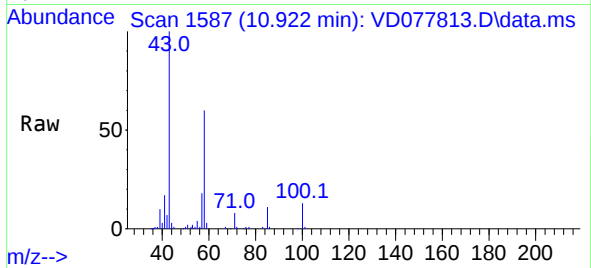




#59  
2-Hexanone  
Concen: 107.568 ug/l  
RT: 10.922 min Scan# 1587  
Delta R.T. -0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

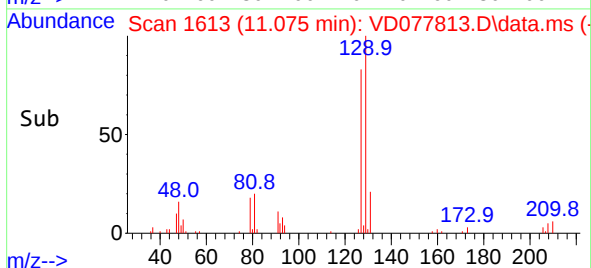
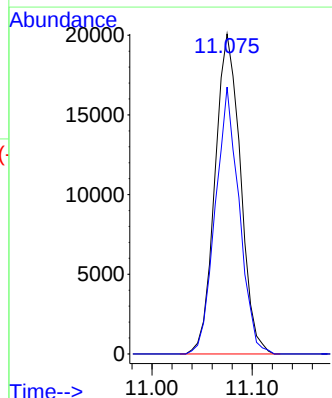
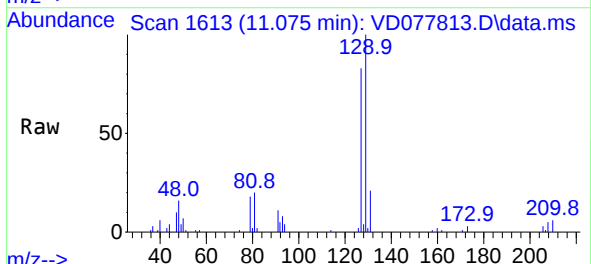
Instrument :  
MSVOA\_D  
ClientSampleId :

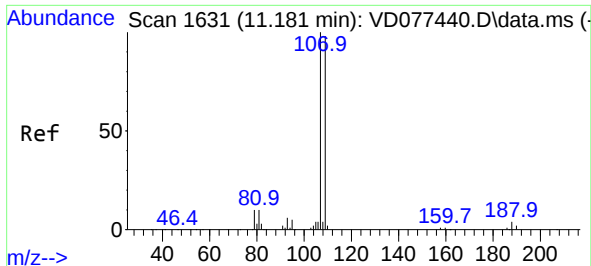
Tgt Ion: 43 Resp: 84518  
Ion Ratio Lower Upper  
43 100  
58 57.4 34.1 102.2



#60  
Dibromochloromethane  
Concen: 22.014 ug/l  
RT: 11.075 min Scan# 1613  
Delta R.T. -0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion:129 Resp: 35433  
Ion Ratio Lower Upper  
129 100  
127 78.2 37.1 111.5

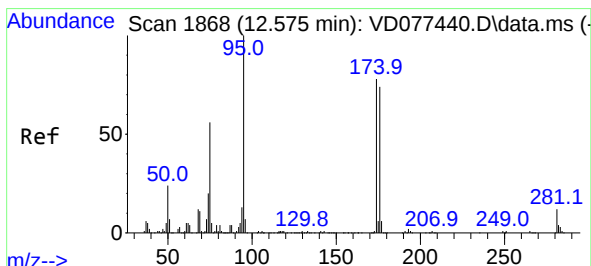
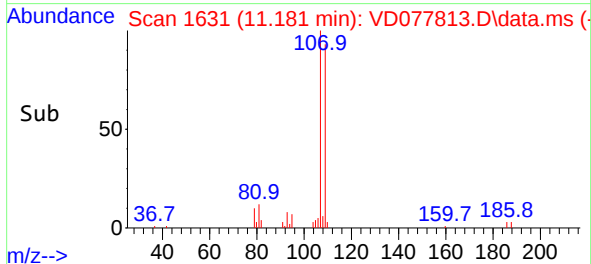
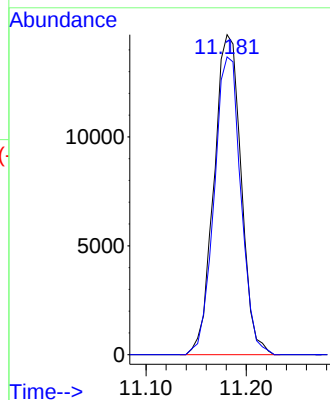
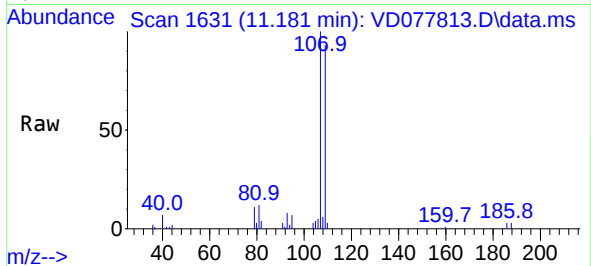




#61  
1,2-Dibromoethane  
Concen: 21.948 ug/l  
RT: 11.181 min Scan# 1631  
Delta R.T. -0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

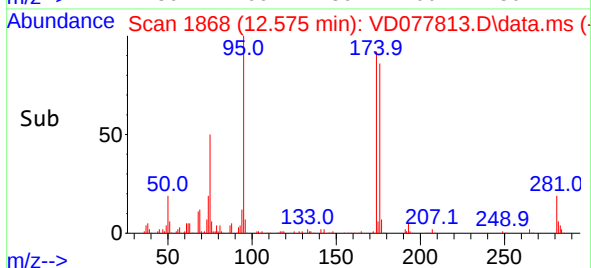
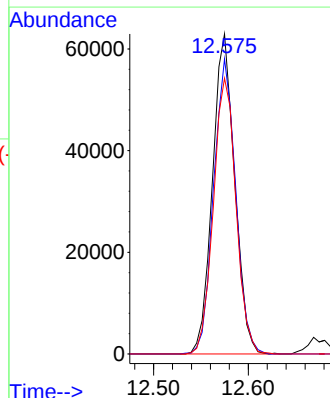
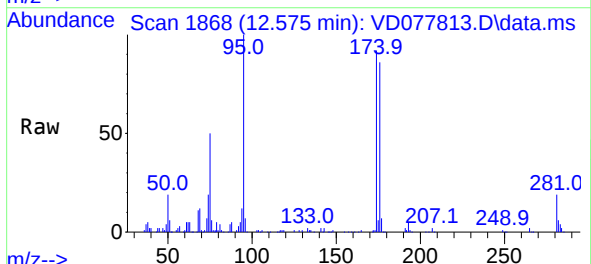
Instrument :  
MSVOA\_D  
ClientSampleId :

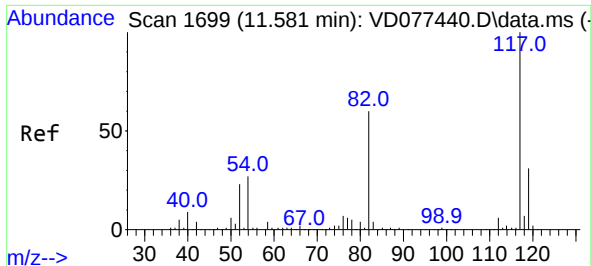
Tgt Ion:107 Resp: 27620  
Ion Ratio Lower Upper  
107 100  
109 91.6 75.6 113.4



#62  
4-Bromofluorobenzene  
Concen: 51.086 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

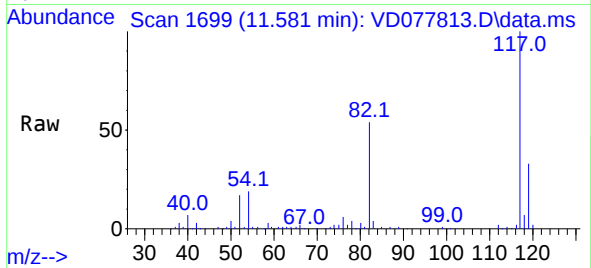
Tgt Ion: 95 Resp: 102384  
Ion Ratio Lower Upper  
95 100  
174 91.7 0.0 201.8  
176 87.8 0.0 191.8



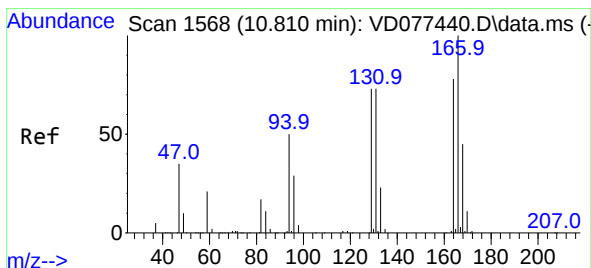
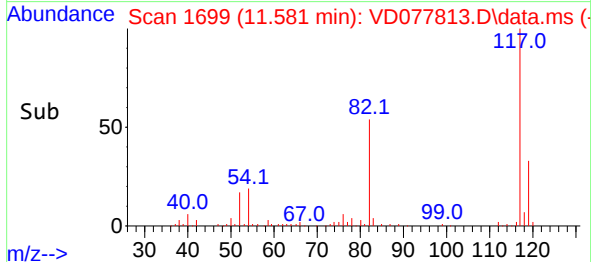
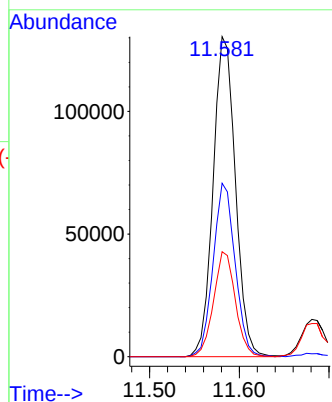


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Instrument :  
MSVOA\_D  
ClientSampleId :

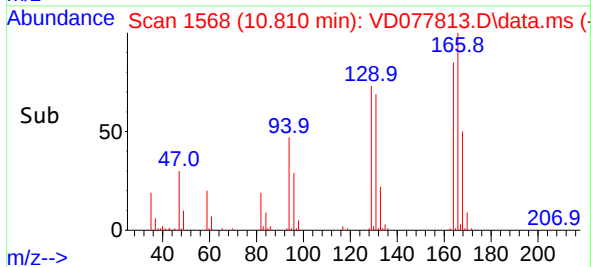
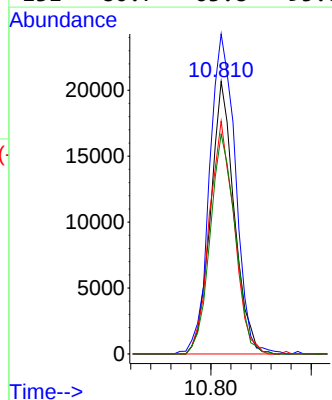
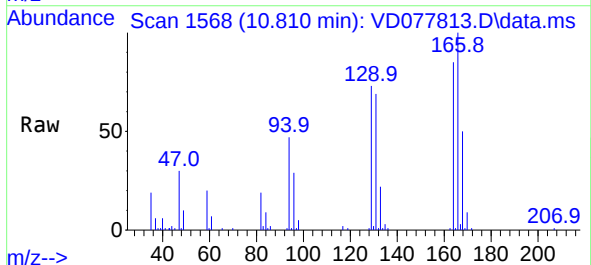


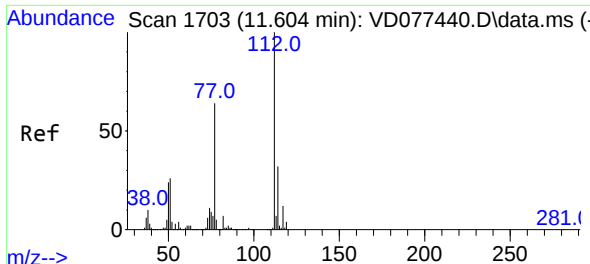
Tgt Ion:117 Resp: 225376  
Ion Ratio Lower Upper  
117 100  
82 54.2 38.3 57.5  
119 32.8 25.0 37.4



#64  
Tetrachloroethene  
Concen: 20.455 ug/l  
RT: 10.810 min Scan# 1568  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion:164 Resp: 33884  
Ion Ratio Lower Upper  
164 100  
166 116.7 99.2 148.8  
129 85.4 68.4 102.6  
131 80.7 63.8 95.8

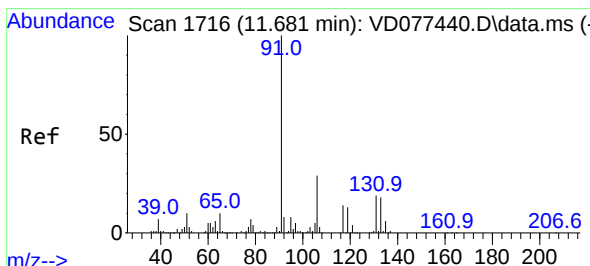
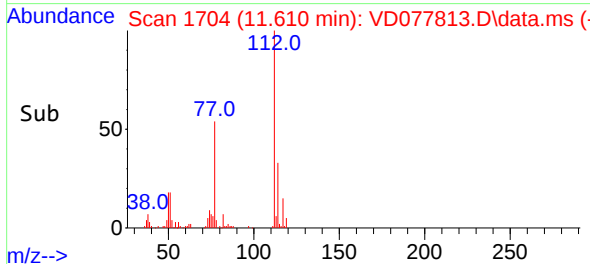
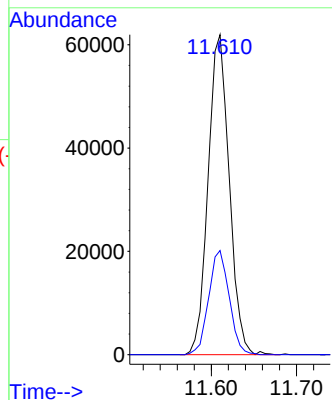
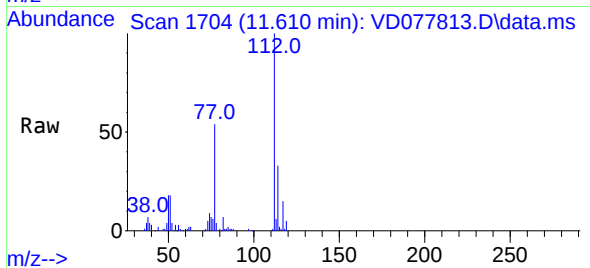




#65  
Chlorobenzene  
Concen: 18.934 ug/l  
RT: 11.610 min Scan# 1704  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

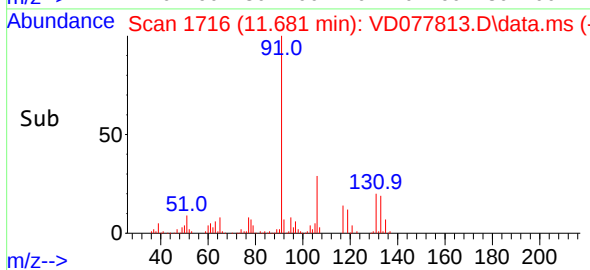
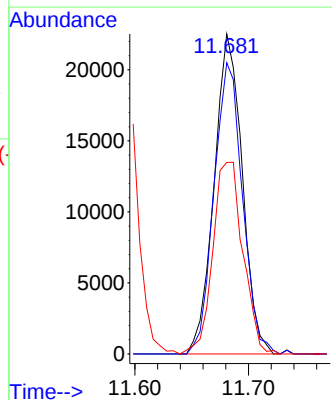
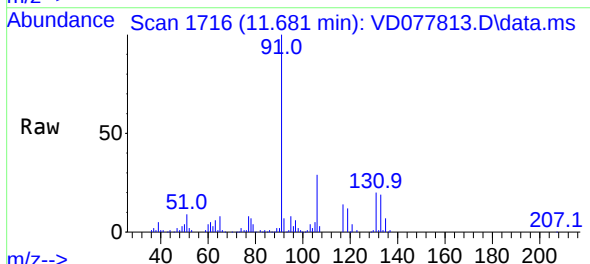
Instrument :  
MSVOA\_D  
ClientSampleId :

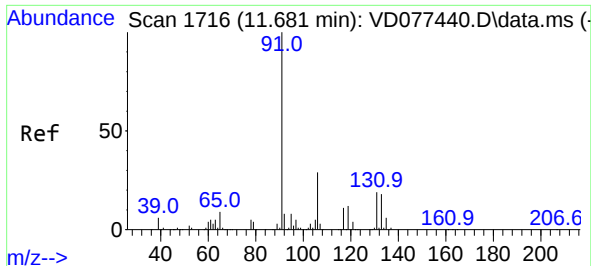
Tgt Ion:112 Resp: 106726  
Ion Ratio Lower Upper  
112 100  
114 32.6 25.1 37.7



#66  
1,1,1,2-Tetrachloroethane  
Concen: 20.624 ug/l  
RT: 11.681 min Scan# 1716  
Delta R.T. -0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion:131 Resp: 38653  
Ion Ratio Lower Upper  
131 100  
133 92.7 48.5 145.5  
119 64.3 35.6 106.9





#67

Ethyl Benzene

Concen: 19.935 ug/l

RT: 11.687 min Scan# 1716

Delta R.T. 0.006 min

Lab File: VD077813.D

Acq: 11 Dec 2023 16:07

Instrument :

MSVOA\_D

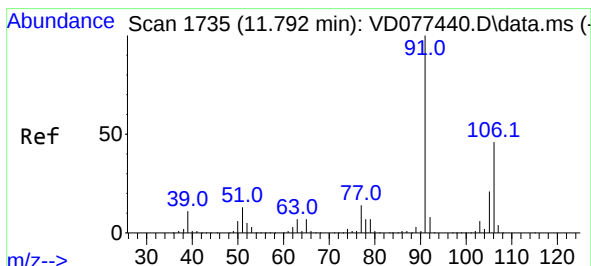
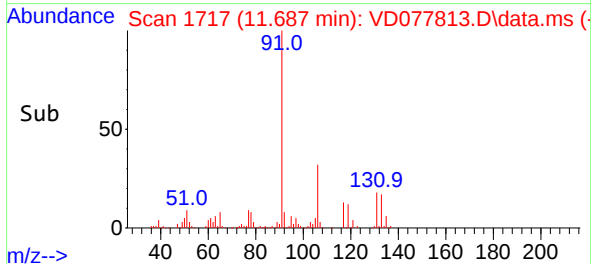
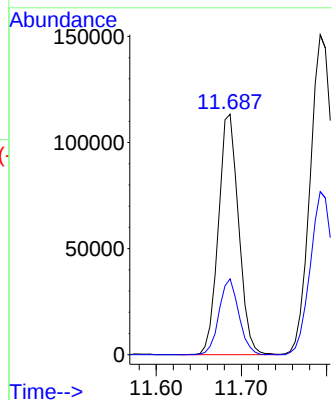
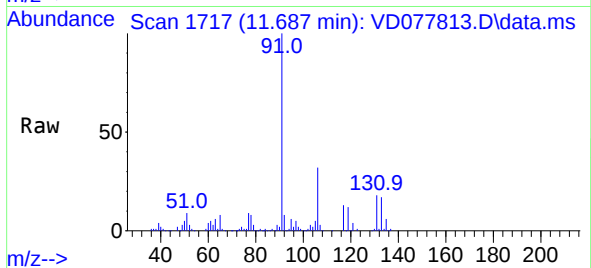
ClientSampleId :

Tgt Ion: 91 Resp: 187054

Ion Ratio Lower Upper

91 100

106 31.6 26.5 39.7



#68

m/p-Xylenes

Concen: 40.315 ug/l

RT: 11.793 min Scan# 1735

Delta R.T. 0.001 min

Lab File: VD077813.D

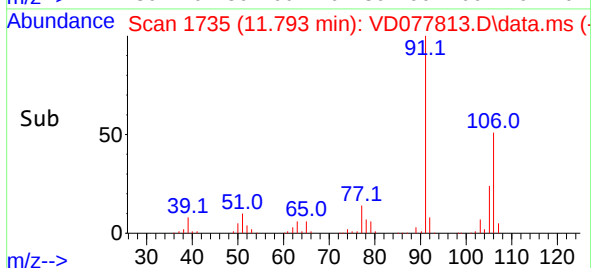
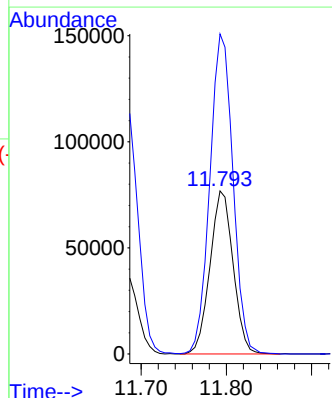
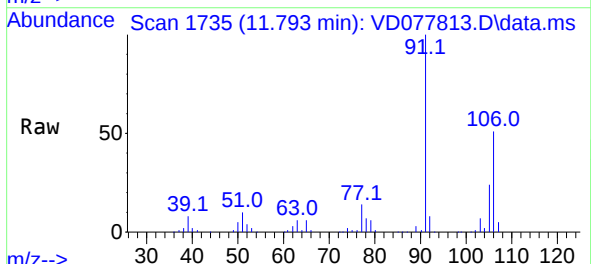
Acq: 11 Dec 2023 16:07

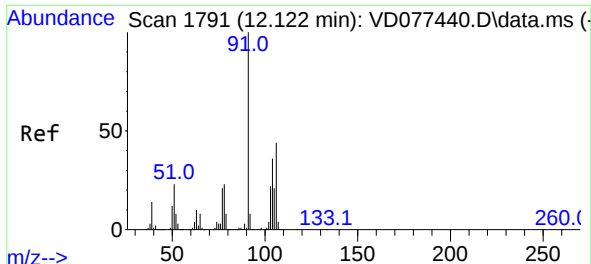
Tgt Ion:106 Resp: 144693

Ion Ratio Lower Upper

106 100

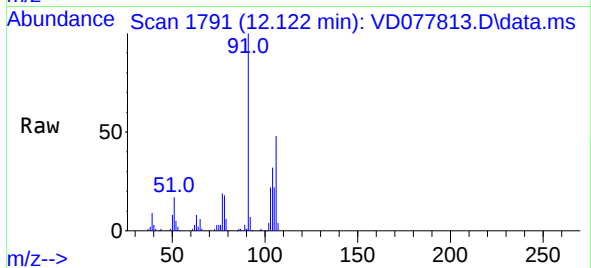
91 196.5 147.0 220.6



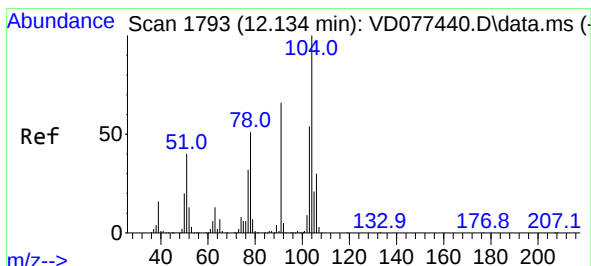
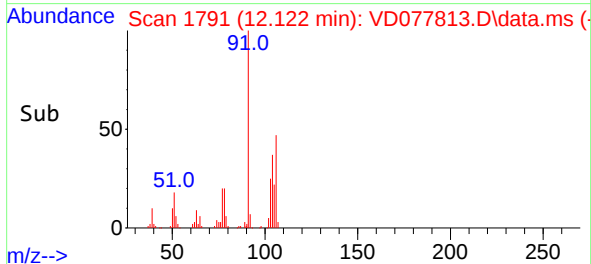
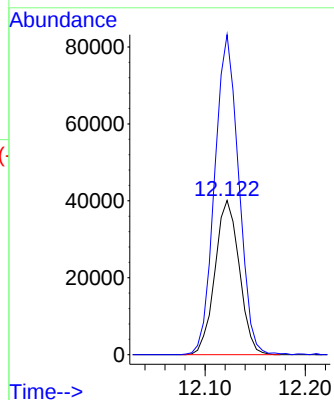


#69  
o-Xylene  
Concen: 20.409 ug/l  
RT: 12.122 min Scan# 1791  
Delta R.T. -0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Instrument :  
MSVOA\_D  
ClientSampleId :

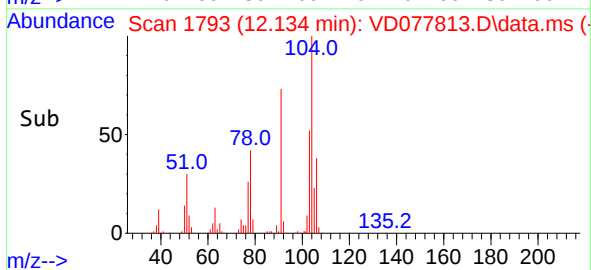
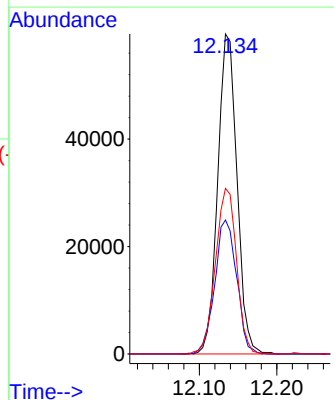
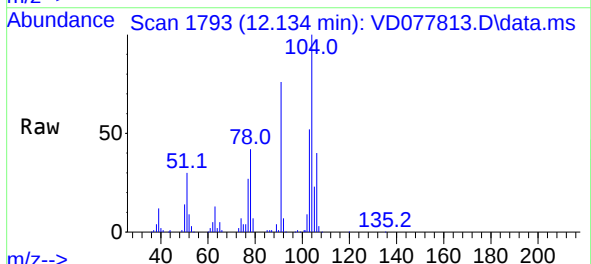


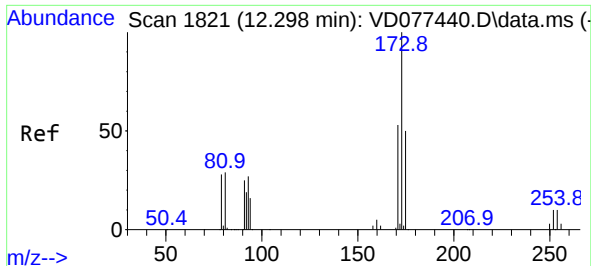
Tgt Ion:106 Resp: 67509  
Ion Ratio Lower Upper  
106 100  
91 204.8 97.9 293.6



#70  
Styrene  
Concen: 20.931 ug/l  
RT: 12.134 min Scan# 1793  
Delta R.T. -0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion:104 Resp: 102950  
Ion Ratio Lower Upper  
104 100  
78 47.4 33.2 49.8  
103 56.7 43.6 65.4

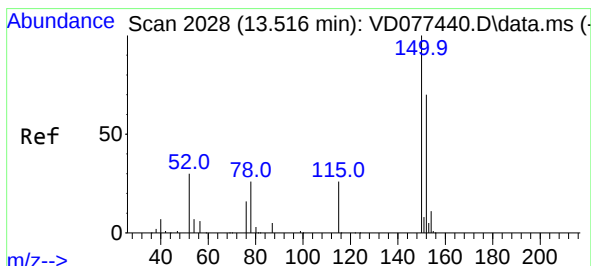
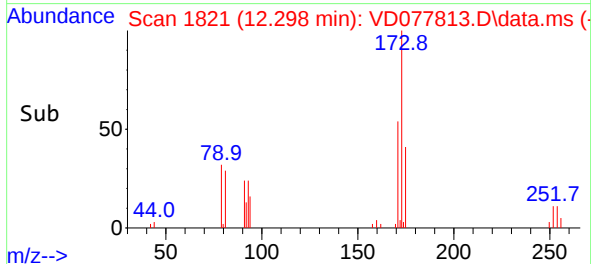
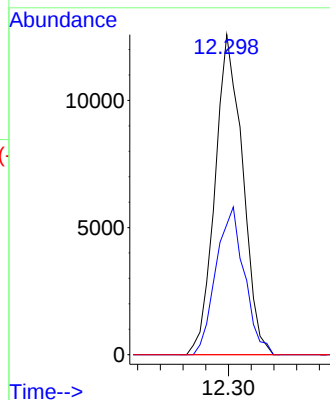
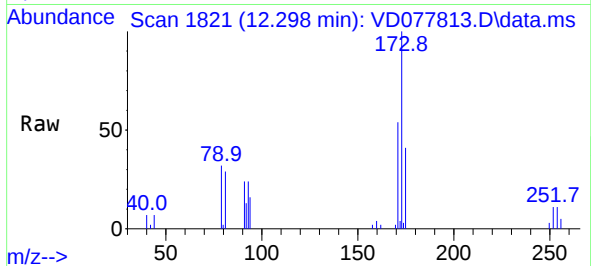




#71  
Bromoform  
Concen: 21.729 ug/l  
RT: 12.298 min Scan# 1821  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

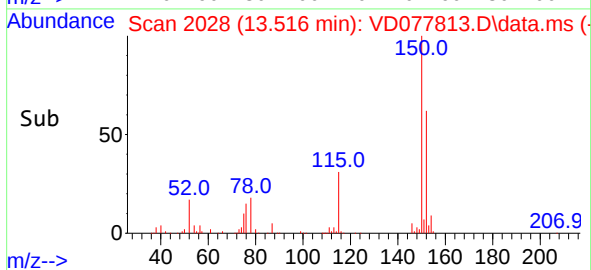
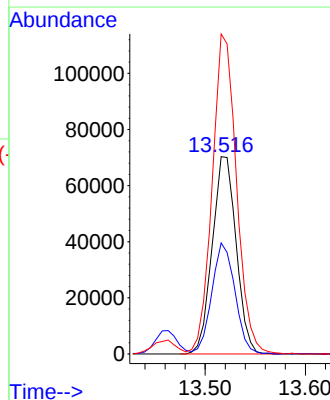
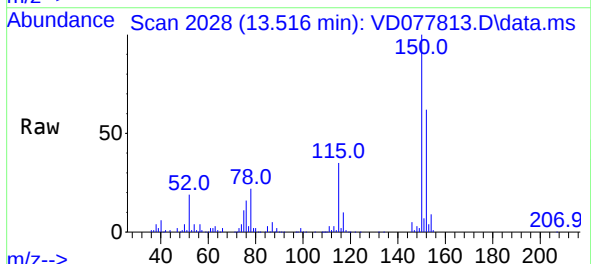
Instrument :  
MSVOA\_D  
ClientSampleId :

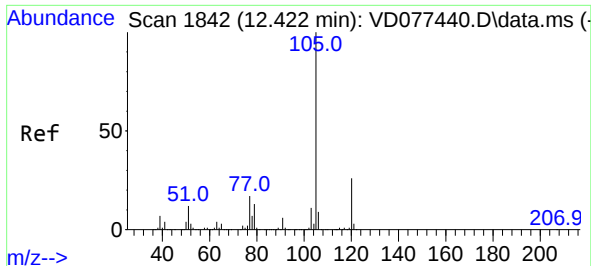
Tgt Ion:173 Resp: 21278  
Ion Ratio Lower Upper  
173 100  
175 47.5 24.6 73.8  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.516 min Scan# 2028  
Delta R.T. -0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion:152 Resp: 116734  
Ion Ratio Lower Upper  
152 100  
115 54.4 27.1 81.3  
150 164.6 0.0 353.6

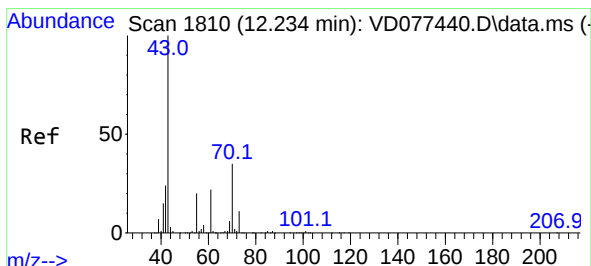
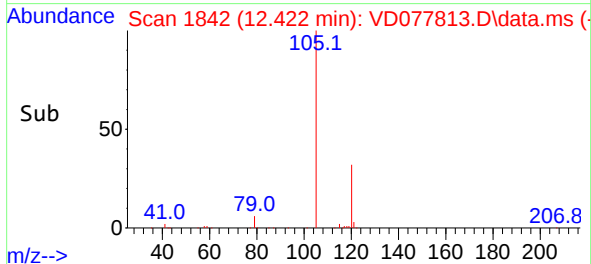
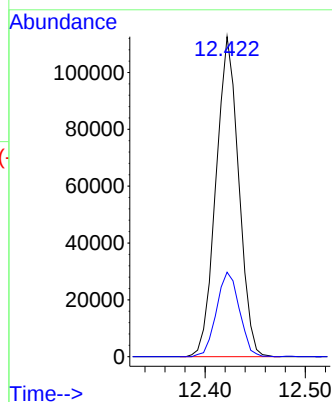
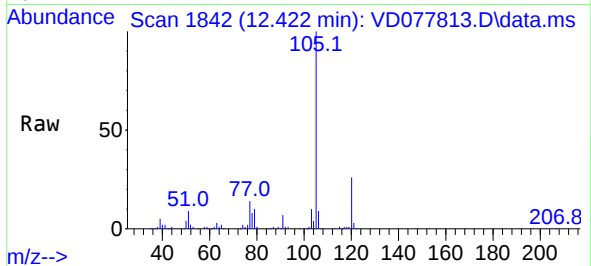




#73  
Isopropylbenzene  
Concen: 20.000 ug/l  
RT: 12.422 min Scan# 1842  
Delta R.T. -0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

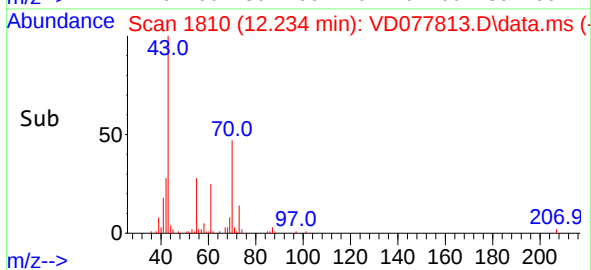
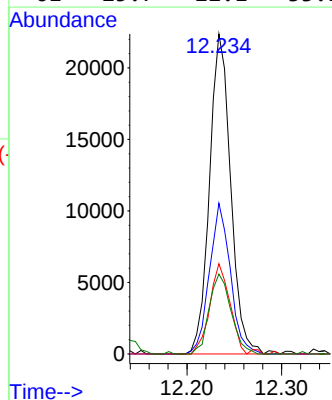
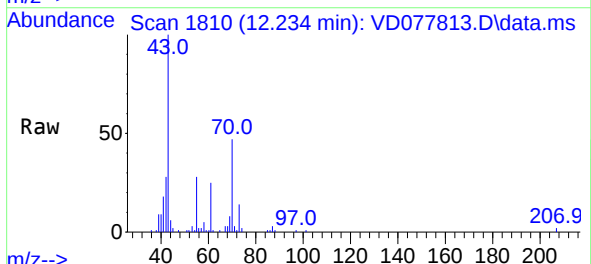
Instrument :  
MSVOA\_D  
ClientSampleId :

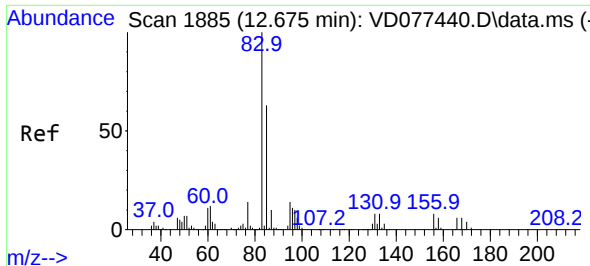
Tgt Ion:105 Resp: 176944  
Ion Ratio Lower Upper  
105 100  
120 26.6 14.3 42.9



#74  
N-ethyl acetate  
Concen: 20.038 ug/l  
RT: 12.234 min Scan# 1810  
Delta R.T. -0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

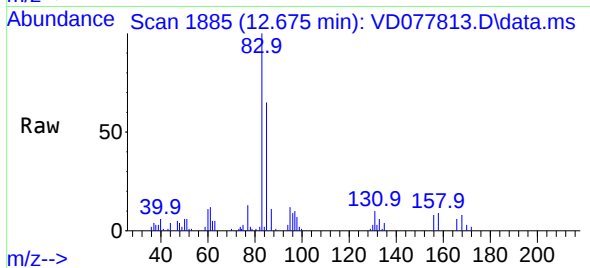
Tgt Ion: 43 Resp: 34849  
Ion Ratio Lower Upper  
43 100  
70 46.4 45.0 67.4  
55 26.8 23.8 35.6  
61 25.7 22.1 33.1



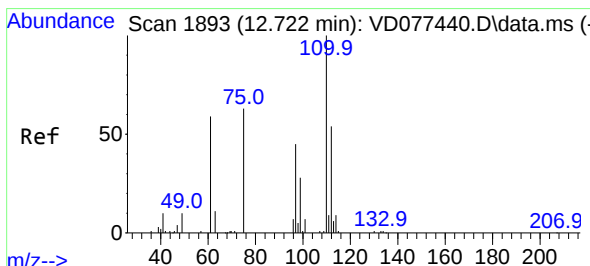
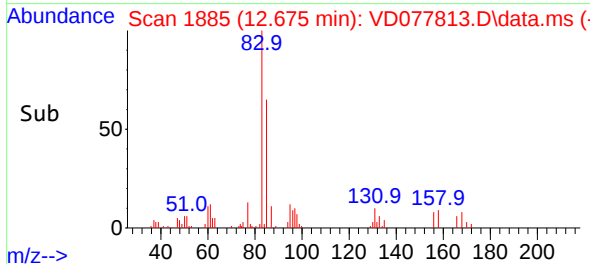
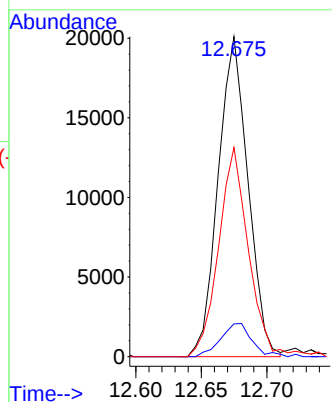


#75  
1,1,2,2-Tetrachloroethane  
Concen: 20.585 ug/l  
RT: 12.675 min Scan# 1885  
Delta R.T. -0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Instrument :  
MSVOA\_D  
ClientSampleId :

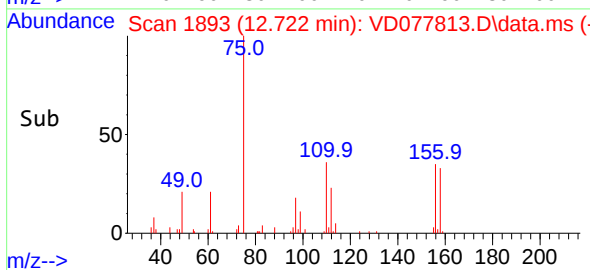
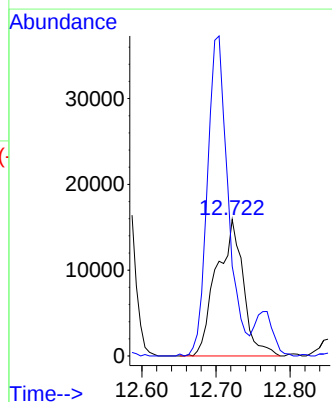
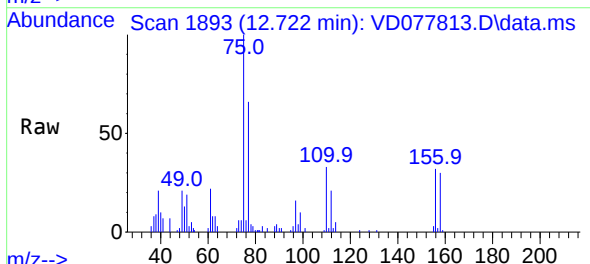


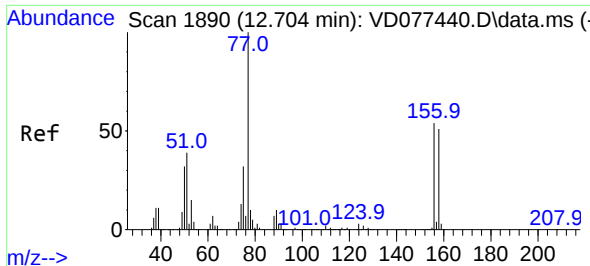
Tgt Ion: 83 Resp: 31756  
Ion Ratio Lower Upper  
83 100  
131 11.1 5.1 15.3  
85 66.4 32.6 97.8



#76  
1,2,3-Trichloropropane  
Concen: 39.527 ug/l  
RT: 12.722 min Scan# 1893  
Delta R.T. -0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion: 75 Resp: 40074  
Ion Ratio Lower Upper  
75 100  
77 181.4 0.0 0.0#

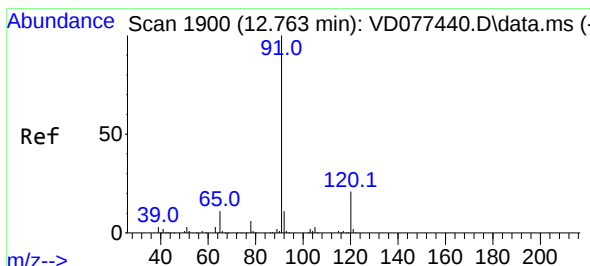
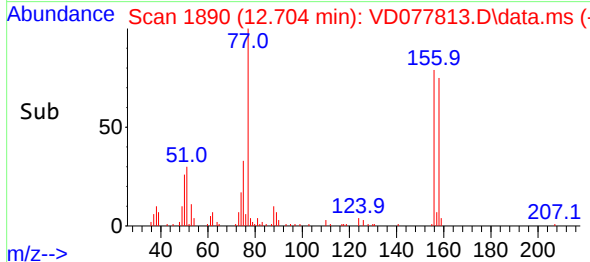
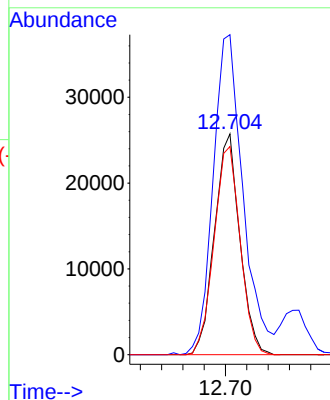
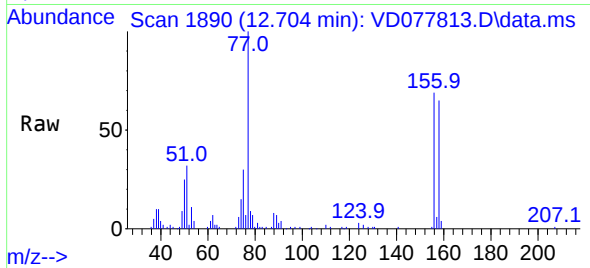




#77  
Bromobenzene  
Concen: 20.424 ug/l  
RT: 12.704 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

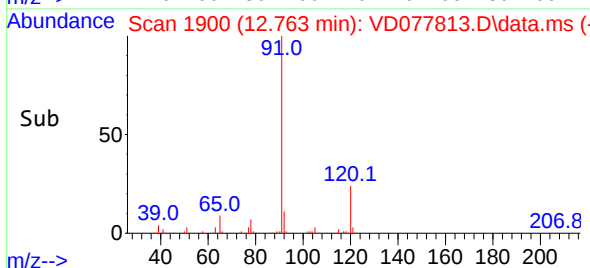
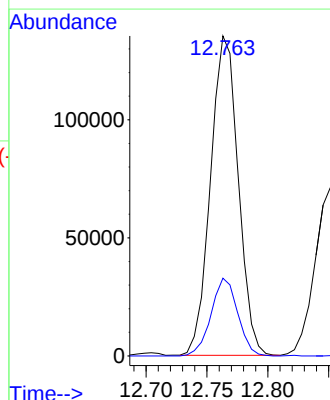
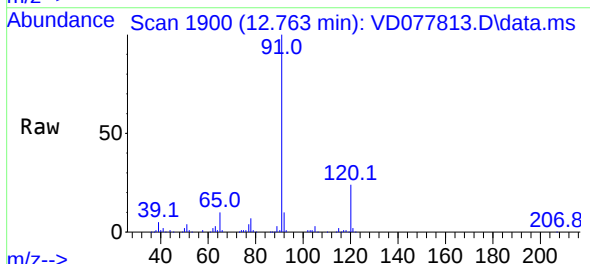
Instrument :  
MSVOA\_D  
ClientSampleId :

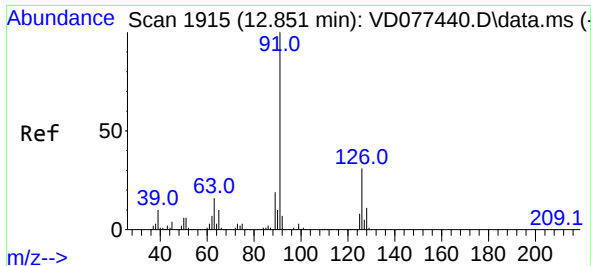
Tgt Ion:156 Resp: 42502  
Ion Ratio Lower Upper  
156 100  
77 171.0 76.8 230.4  
158 97.1 48.6 145.9



#78  
n-propylbenzene  
Concen: 19.883 ug/l  
RT: 12.763 min Scan# 1900  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion: 91 Resp: 214353  
Ion Ratio Lower Upper  
91 100  
120 23.4 12.4 37.2

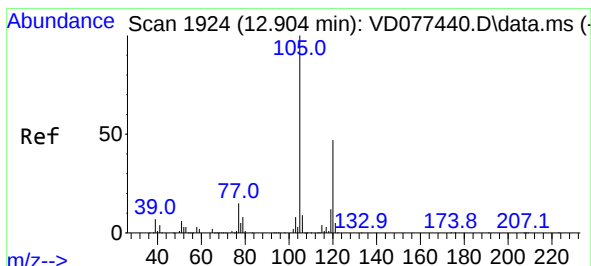
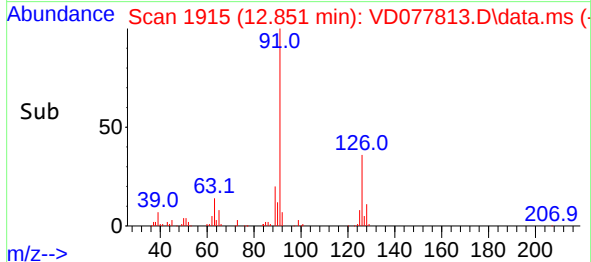
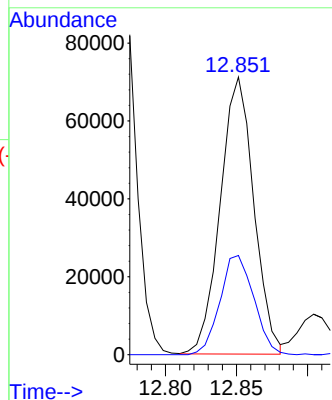
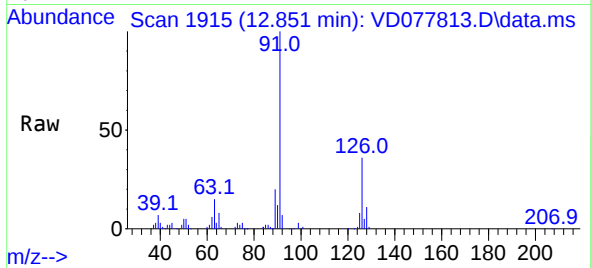




#79  
2-Chlorotoluene  
Concen: 20.236 ug/l  
RT: 12.851 min Scan# 1915  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

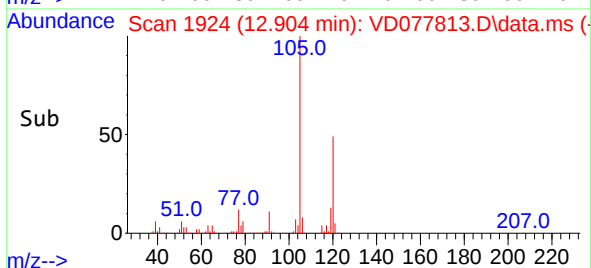
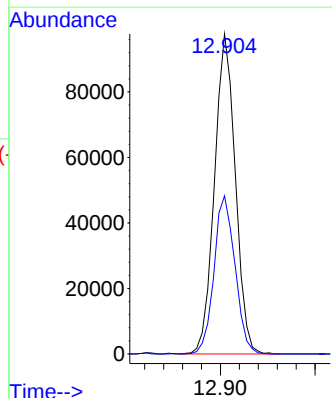
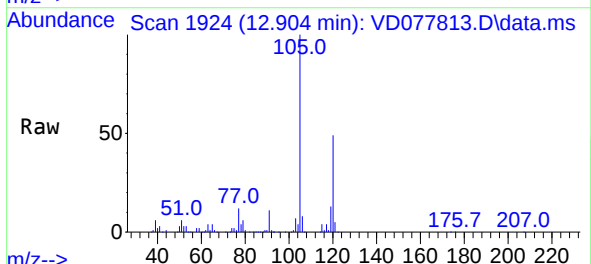
Instrument :  
MSVOA\_D  
ClientSampleId :

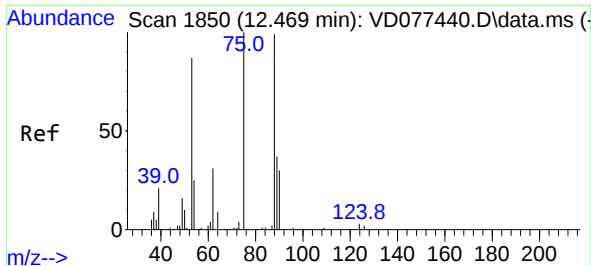
Tgt Ion: 91 Resp: 116917  
Ion Ratio Lower Upper  
91 100  
126 36.1 19.4 58.1



#80  
1,3,5-Trimethylbenzene  
Concen: 20.256 ug/l  
RT: 12.904 min Scan# 1924  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion:105 Resp: 149472  
Ion Ratio Lower Upper  
105 100  
120 49.7 26.4 79.2

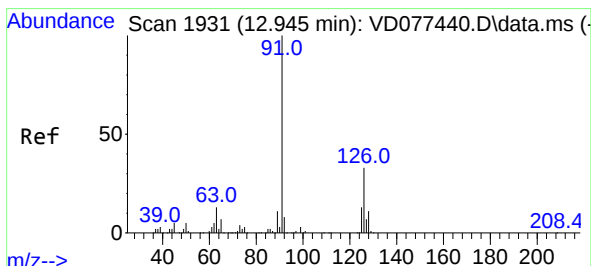
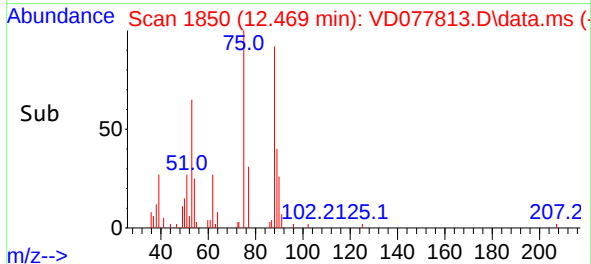
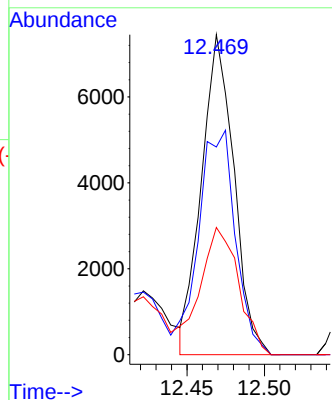
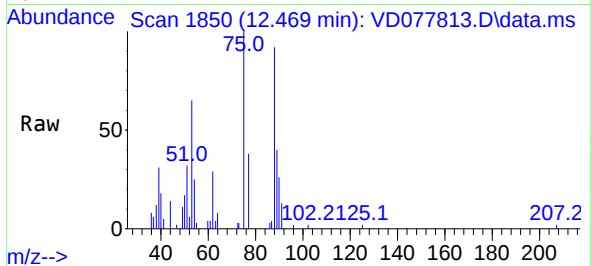




#81  
trans-1,4-Dichloro-2-butene  
Concen: 21.659 ug/l  
RT: 12.469 min Scan# 1850  
Delta R.T. -0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

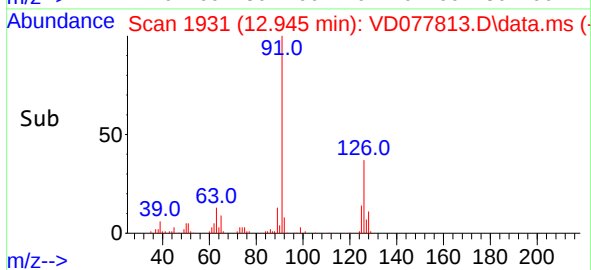
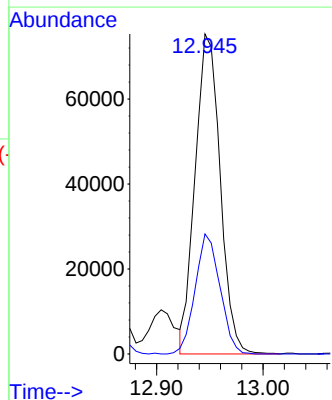
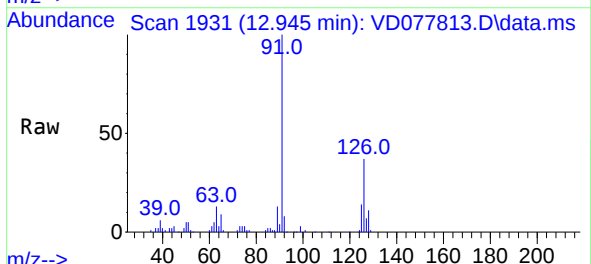
Instrument :  
MSVOA\_D  
ClientSampleId :

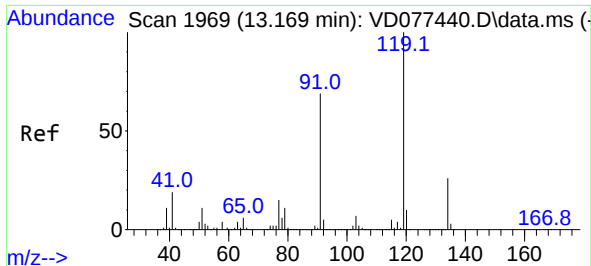
Tgt Ion: 75 Resp: 10838  
Ion Ratio Lower Upper  
75 100  
53 80.1 63.0 94.4  
89 48.5 37.9 56.9



#82  
4-Chlorotoluene  
Concen: 20.387 ug/l  
RT: 12.945 min Scan# 1931  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

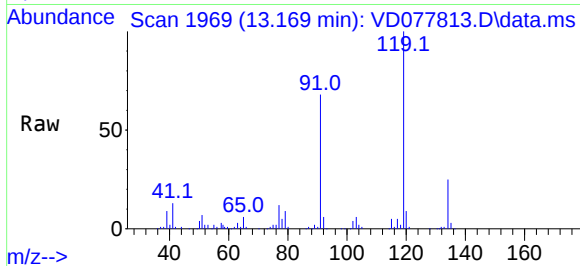
Tgt Ion: 91 Resp: 123140  
Ion Ratio Lower Upper  
91 100  
126 37.1 19.4 58.4



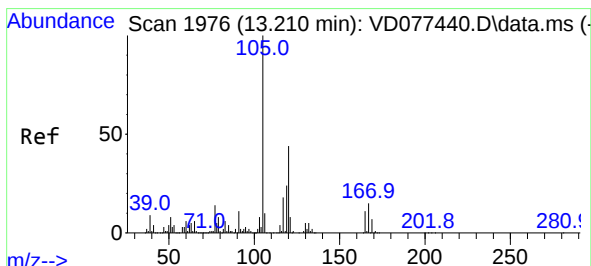
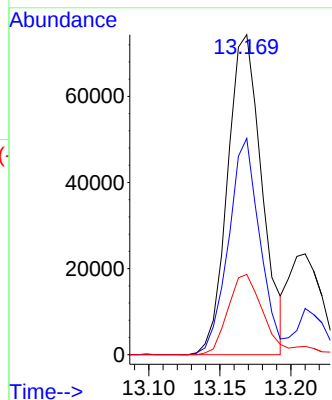
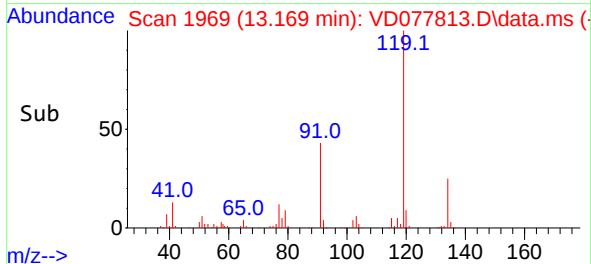


#83  
tert-Butylbenzene  
Concen: 20.089 ug/l  
RT: 13.169 min Scan# 1969  
Delta R.T. -0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Instrument :  
MSVOA\_D  
ClientSampleId :

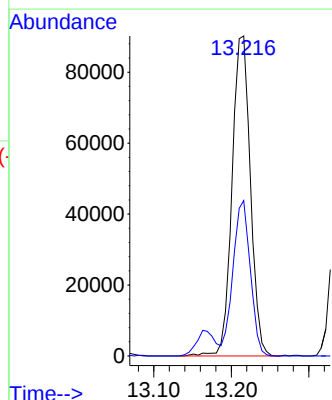
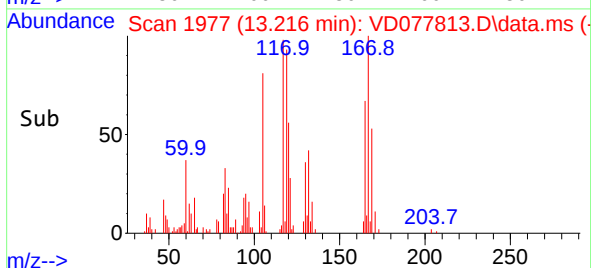
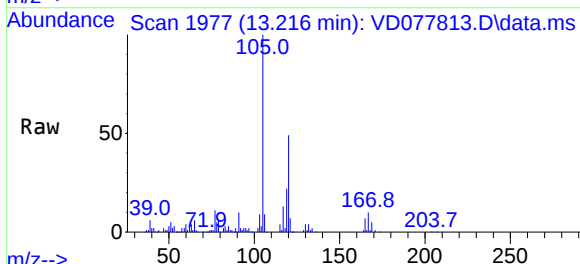


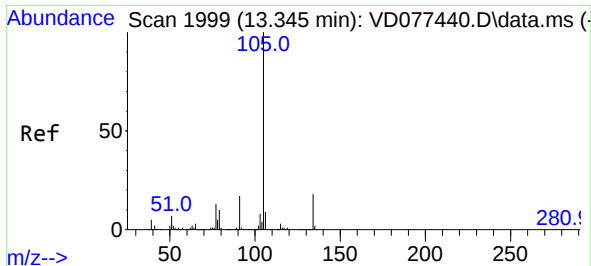
Tgt Ion:119 Resp: 125146  
Ion Ratio Lower Upper  
119 100  
91 62.8 29.3 87.8  
134 27.0 14.1 42.3



#84  
1,2,4-Trimethylbenzene  
Concen: 20.116 ug/l  
RT: 13.216 min Scan# 1977  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion:105 Resp: 148468  
Ion Ratio Lower Upper  
105 100  
120 45.9 24.3 72.9

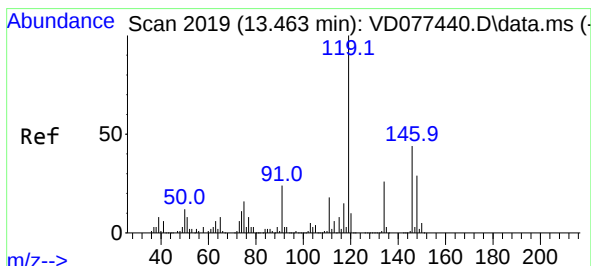
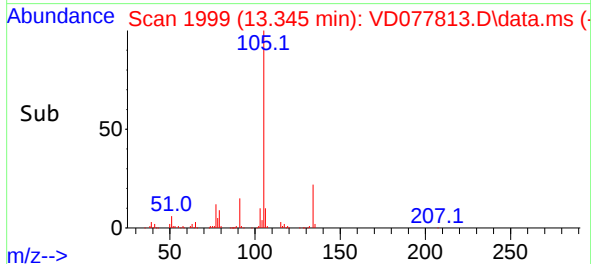
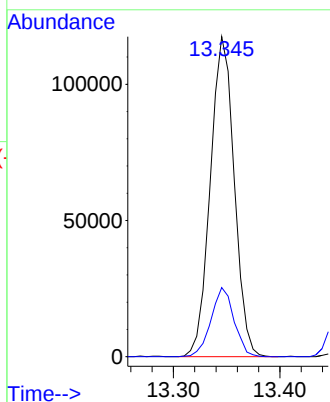
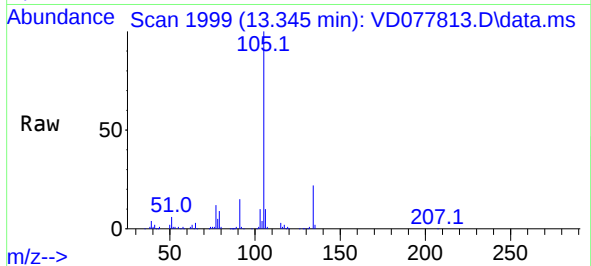




#85  
sec-Butylbenzene  
Concen: 19.882 ug/l  
RT: 13.345 min Scan# 1999  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

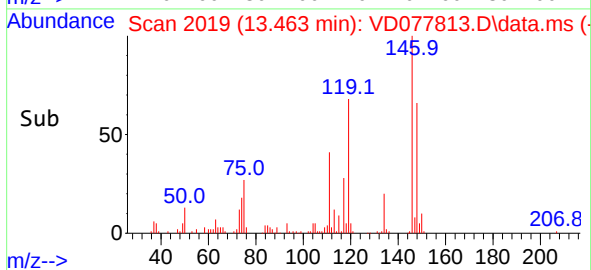
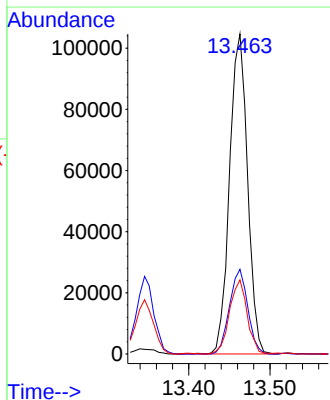
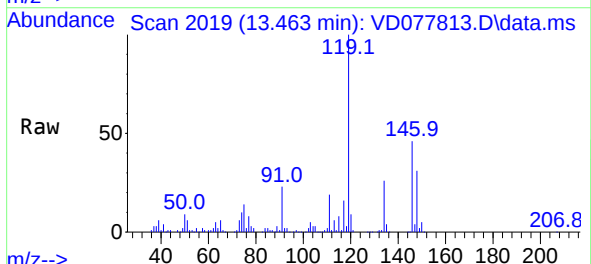
Instrument :  
MSVOA\_D  
ClientSampleId :

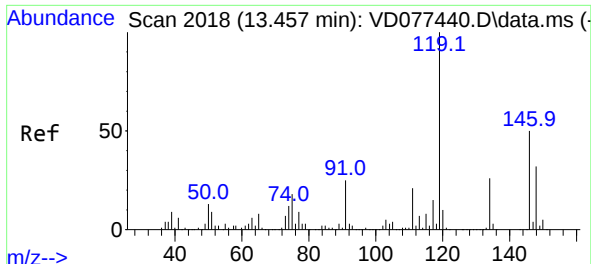
Tgt Ion:105 Resp: 183079  
Ion Ratio Lower Upper  
105 100  
134 20.8 10.9 32.9



#86  
p-Isopropyltoluene  
Concen: 19.504 ug/l  
RT: 13.463 min Scan# 2019  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion:119 Resp: 160799  
Ion Ratio Lower Upper  
119 100  
134 26.8 14.2 42.6  
91 22.8 10.5 31.5





#87

1,3-Dichlorobenzene

Concen: 19.902 ug/l

RT: 13.457 min Scan# 2018

Delta R.T. 0.000 min

Lab File: VD077813.D

Acq: 11 Dec 2023 16:07

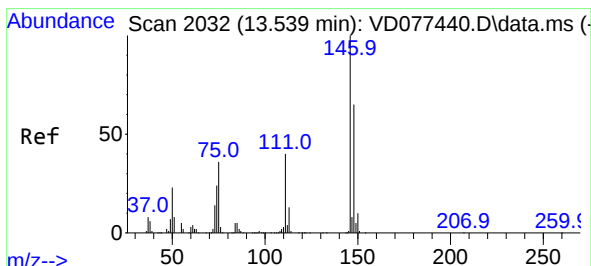
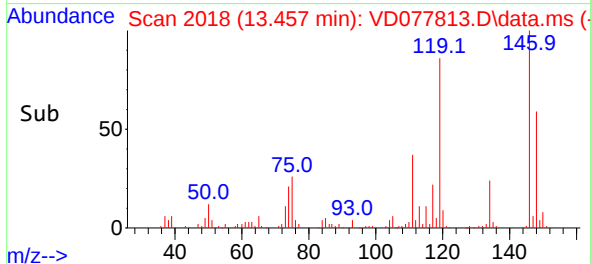
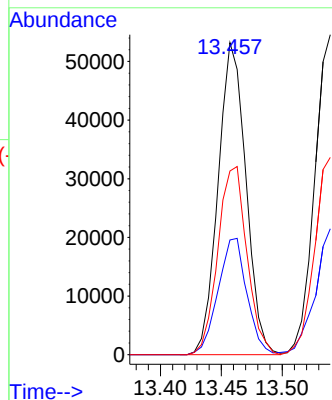
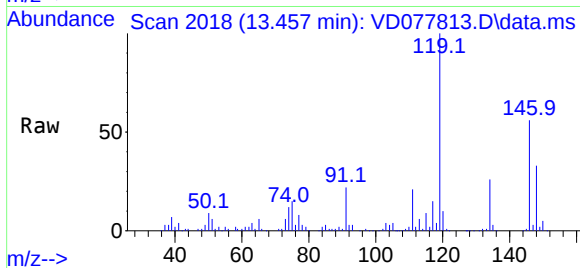
Instrument :

MSVOA\_D

ClientSampleId :

Tgt Ion:146 Resp: 84696

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 38.8  | 17.9  | 53.8  |
| 148 | 63.1  | 32.3  | 96.8  |



#88

1,4-Dichlorobenzene

Concen: 19.824 ug/l

RT: 13.539 min Scan# 2032

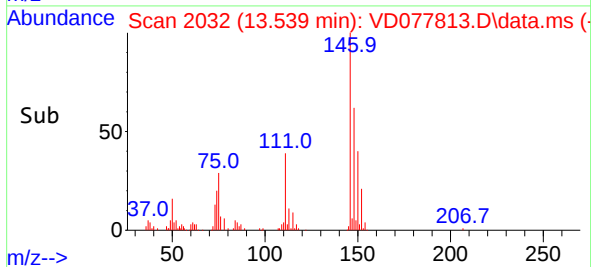
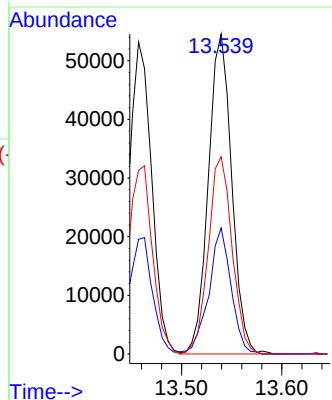
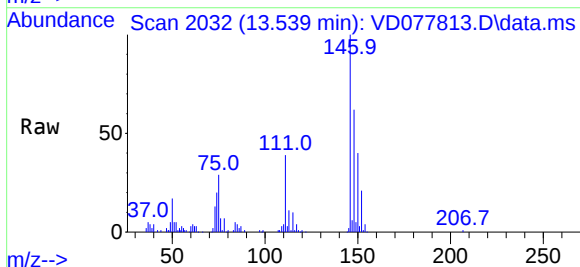
Delta R.T. 0.000 min

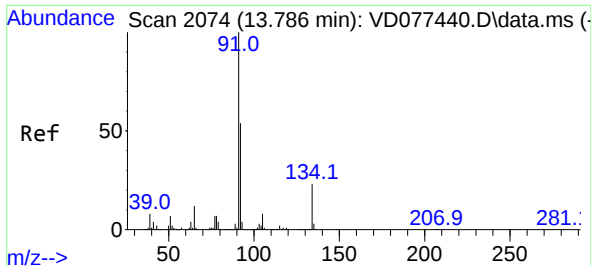
Lab File: VD077813.D

Acq: 11 Dec 2023 16:07

Tgt Ion:146 Resp: 88323

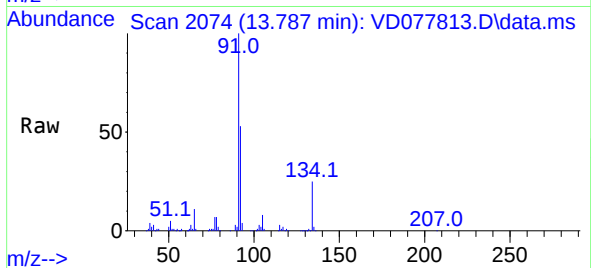
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 37.5  | 17.4  | 52.3  |
| 148 | 62.8  | 31.7  | 95.1  |



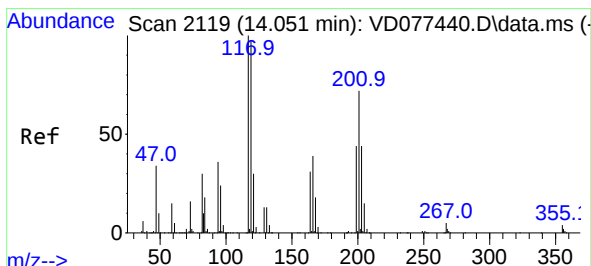
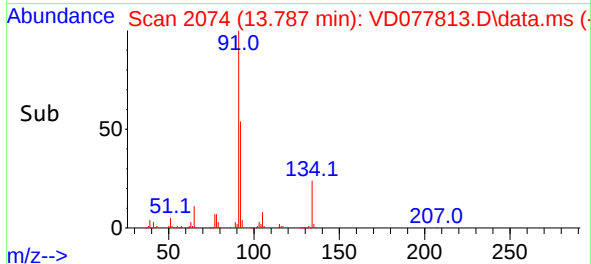
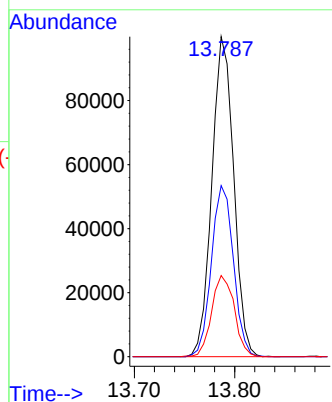


#89  
n-Butylbenzene  
Concen: 19.440 ug/l  
RT: 13.787 min Scan# 2074  
Delta R.T. 0.001 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Instrument :  
MSVOA\_D  
ClientSampleId :

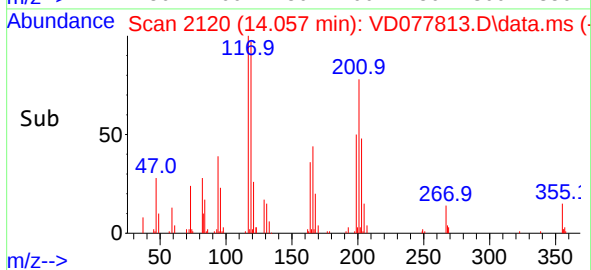
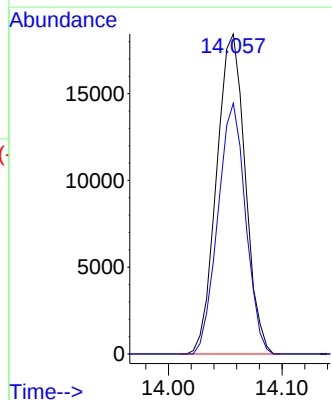
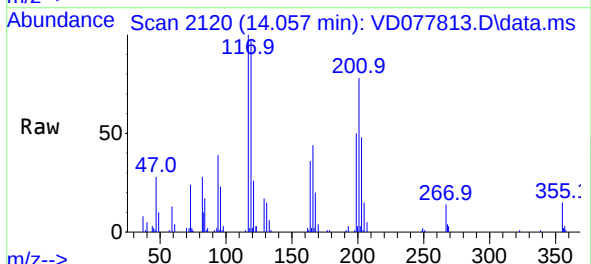


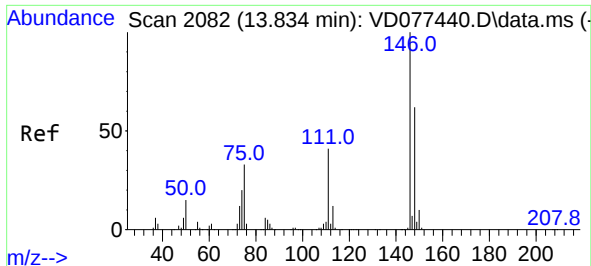
Tgt Ion: 91 Resp: 150807  
Ion Ratio Lower Upper  
91 100  
92 54.0 26.5 79.5  
134 26.4 13.8 41.3



#90  
Hexachloroethane  
Concen: 21.327 ug/l  
RT: 14.057 min Scan# 2120  
Delta R.T. 0.006 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion: 117 Resp: 32337  
Ion Ratio Lower Upper  
117 100  
201 75.8 38.5 115.5





#91

1,2-Dichlorobenzene

Concen: 20.983 ug/l

RT: 13.834 min Scan# 2082

Delta R.T. -0.000 min

Lab File: VD077813.D

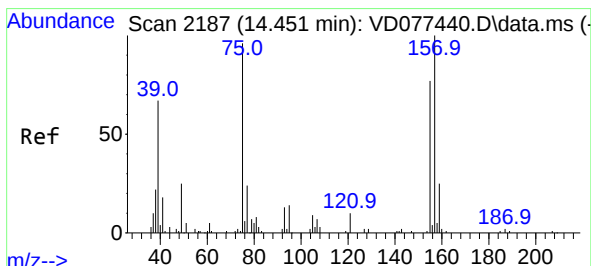
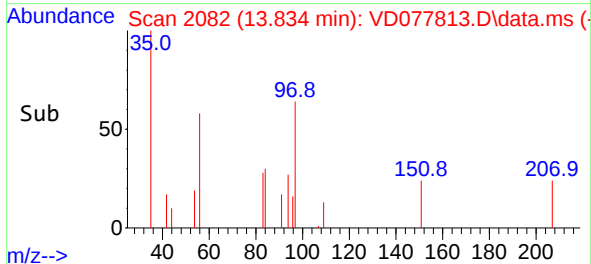
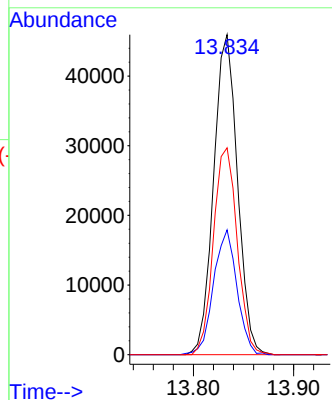
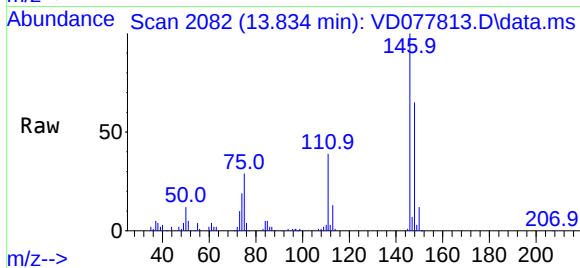
Acq: 11 Dec 2023 16:07

Instrument :

MSVOA\_D

ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 75946     |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 38.3  | 18.3 54.8 |
| 148         | 64.6  | 31.6 94.7 |



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.823 ug/l

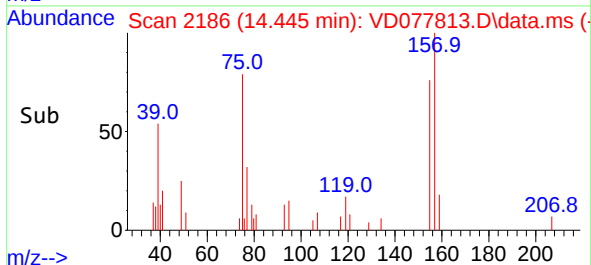
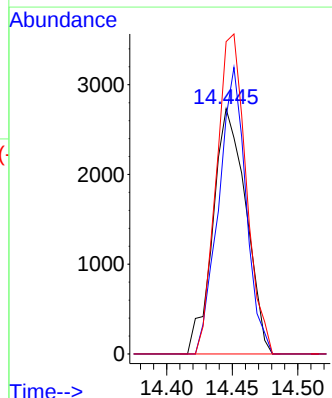
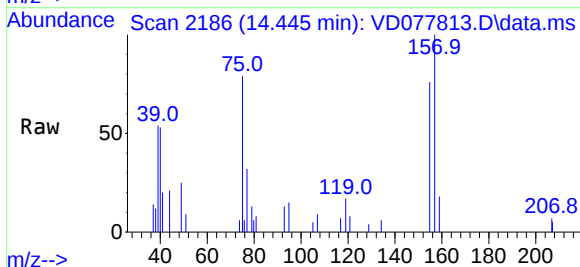
RT: 14.445 min Scan# 2186

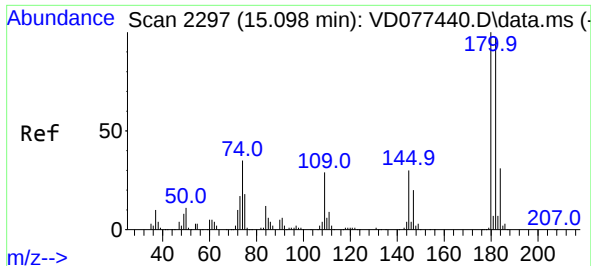
Delta R.T. -0.006 min

Lab File: VD077813.D

Acq: 11 Dec 2023 16:07

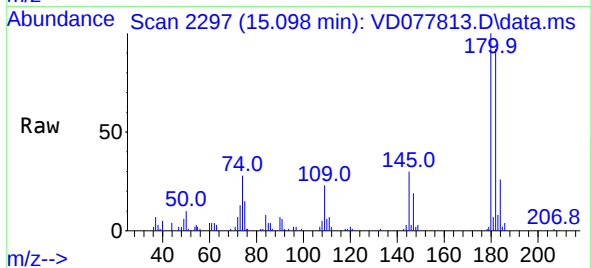
|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 75 | Resp: | 4781       |
| Ion Ratio   | Lower | Upper      |
| 75          | 100   |            |
| 155         | 96.6  | 47.9 143.8 |
| 157         | 117.8 | 59.9 179.7 |



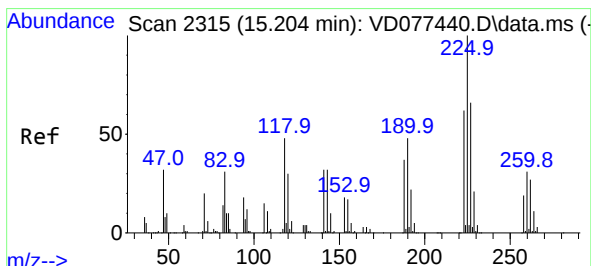
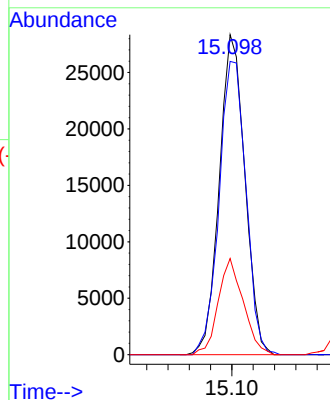
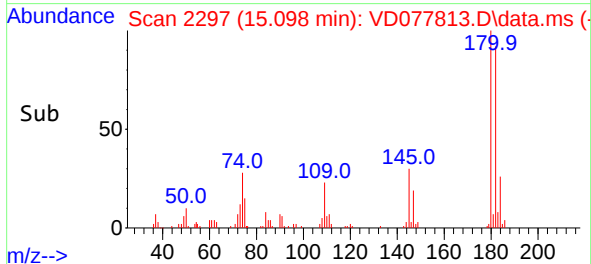


#93  
1,2,4-Trichlorobenzene  
Concen: 19.114 ug/l  
RT: 15.098 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

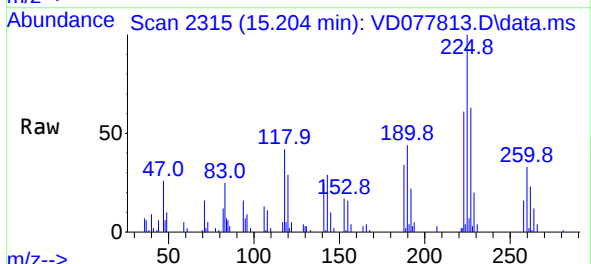
Instrument :  
MSVOA\_D  
ClientSampleId :



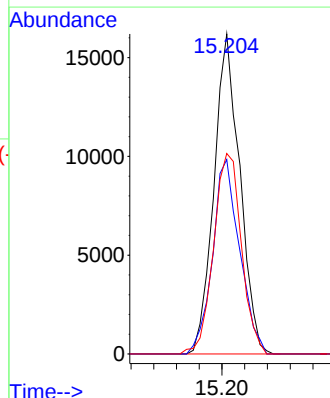
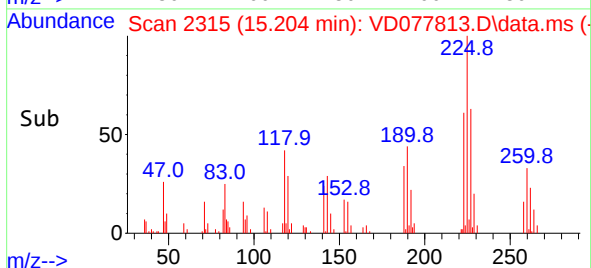
Tgt Ion:180 Resp: 47253  
Ion Ratio Lower Upper  
180 100  
182 96.0 48.5 145.6  
145 29.4 14.2 42.6

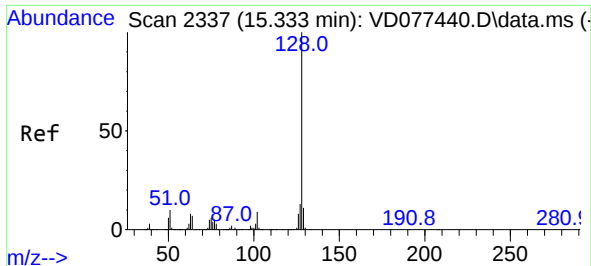


#94  
Hexachlorobutadiene  
Concen: 19.180 ug/l  
RT: 15.204 min Scan# 2315  
Delta R.T. 0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07



Tgt Ion:225 Resp: 25570  
Ion Ratio Lower Upper  
225 100  
223 63.7 31.6 94.8  
227 67.3 31.7 95.1

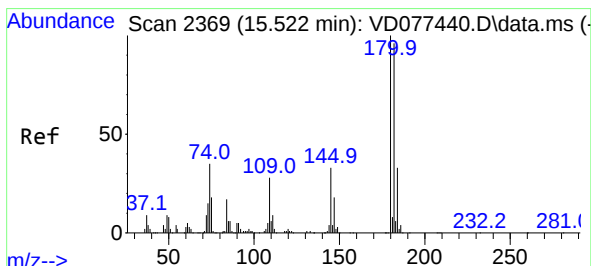
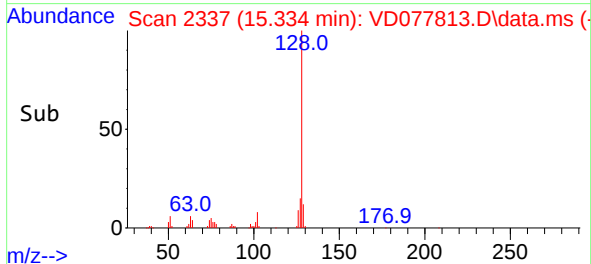
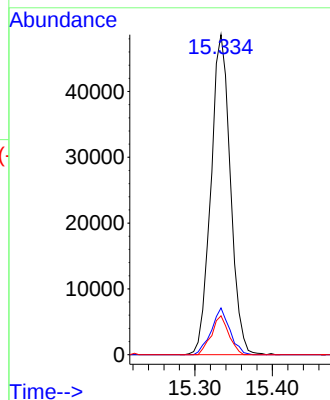
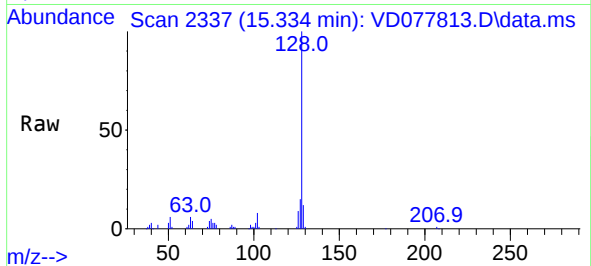




#95  
Naphthalene  
Concen: 20.702 ug/l  
RT: 15.334 min Scan# 21  
Delta R.T. 0.001 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion:128 Resp: 85034  
Ion Ratio Lower Upper  
128 100  
127 14.6 10.5 15.7  
129 12.1 8.7 13.1



#96  
1,2,3-Trichlorobenzene  
Concen: 20.354 ug/l  
RT: 15.522 min Scan# 2369  
Delta R.T. -0.000 min  
Lab File: VD077813.D  
Acq: 11 Dec 2023 16:07

Tgt Ion:180 Resp: 41484  
Ion Ratio Lower Upper  
180 100  
182 94.0 47.3 141.9  
145 31.1 15.1 45.3

