

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD071723\  
 Data File : VD076757.D  
 Acq On : 17 Jul 2023 16:26  
 Operator : KP/SY  
 Sample : 03645-07  
 Misc : 5.93G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 DUP

Quant Time: Jul 18 01:23:54 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071423S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 17 08:07:52 2023  
 Response via : Initial Calibration

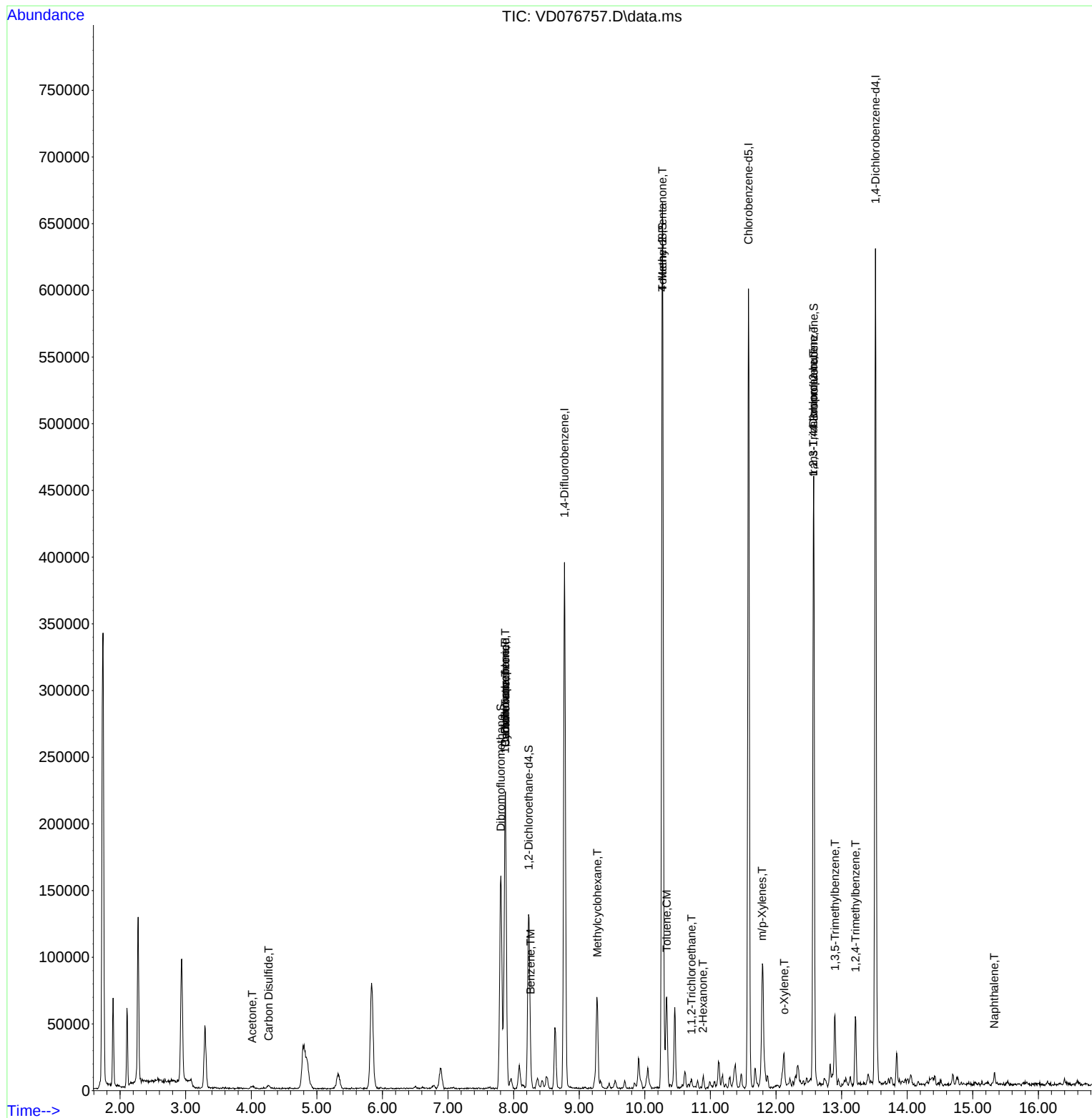
| Compound                      | R.T. QIon |                | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|-----------|----------------|----------|------------|--------|----------|
| -----                         |           |                |          |            |        |          |
| Internal Standards            |           |                |          |            |        |          |
| 1) Pentafluorobenzene         | 7.875     | 168            | 155926   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.775     | 114            | 359050   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.581    | 117            | 355539   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.516    | 152            | 162312   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |           |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.228     | 65             | 96549    | 62.167     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 50 - 163 | Recovery | = 124.340% |        |          |
| 35) Dibromofluoromethane      | 7.805     | 113            | 119406   | 52.921     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 54 - 147 | Recovery | = 105.840% |        |          |
| 50) Toluene-d8                | 10.269    | 98             | 454702   | 56.333     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 58 - 134 | Recovery | = 112.660% |        |          |
| 62) 4-Bromofluorobenzene      | 12.575    | 95             | 143964   | 55.134     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 30 - 143 | Recovery | = 110.260% |        |          |
| Target Compounds              |           |                |          |            |        |          |
|                               |           |                |          |            | Qvalue |          |
| 16) Acetone                   | 4.017     | 43             | 1011     | 2.726      | ug/l # | 75       |
| 17) Carbon Disulfide          | 4.264     | 76             | 5092     | 1.415      | ug/l   | 99       |
| 31) Cyclohexane               | 7.875     | 56             | 15880    | 6.948      | ug/l # | 85       |
| 36) 1,1-Dichloropropene       | 7.869     | 75             | 11651    | 3.952      | ug/l # | 47       |
| 38) Carbon Tetrachloride      | 7.875     | 117            | 15883    | 5.626      | ug/l # | 17       |
| 39) Methylcyclohexane         | 9.275     | 83             | 29363    | 8.625      | ug/l   | 96       |
| 40) Benzene                   | 8.257     | 78             | 13496    | 1.451      | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.269    | 43             | 2637     | 1.925      | ug/l # | 1        |
| 52) Toluene                   | 10.334    | 92             | 30169    | 4.938      | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 10.710    | 97             | 2773     | 1.351      | ug/l # | 23       |
| 59) 2-Hexanone                | 10.887    | 43             | 2906     | 2.973      | ug/l # | 19       |
| 68) m/p-Xylenes               | 11.787    | 106            | 22159    | 4.594      | ug/l   | 99       |
| 69) o-Xylene                  | 12.128    | 106            | 6757     | 1.449      | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.569    | 75             | 74267    | 48.114     | ug/l # | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.898    | 105            | 10084    | 1.059      | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.569    | 75             | 74267    | 102.399    | ug/l # | 17       |
| 84) 1,2,4-Trimethylbenzene    | 13.210    | 105            | 28216    | 2.900      | ug/l   | 98       |
| 95) Naphthalene               | 15.328    | 128            | 9102     | 1.398      | ug/l   | 98       |
| -----                         |           |                |          |            |        |          |

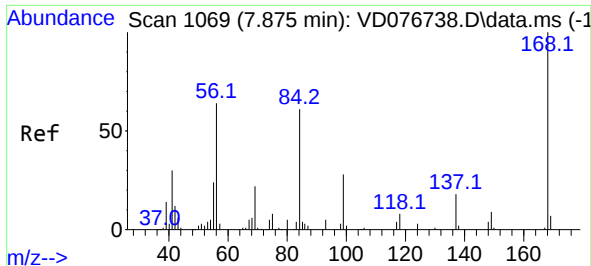
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD071723\  
Data File : VD076757.D  
Acq On : 17 Jul 2023 16:26  
Operator : KP/SY  
Sample : 03645-07  
Misc : 5.93G/5.0ml/MSVOA\_D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
DUP

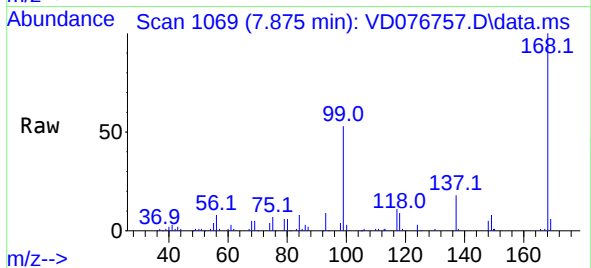
Quant Time: Jul 18 01:23:54 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071423S.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 17 08:07:52 2023  
Response via : Initial Calibration



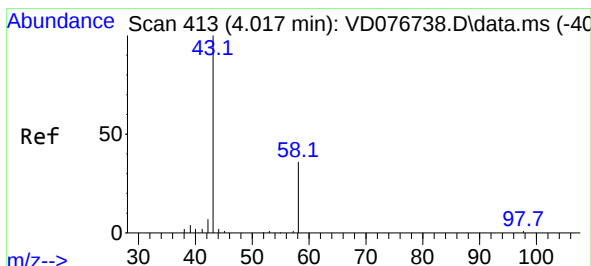
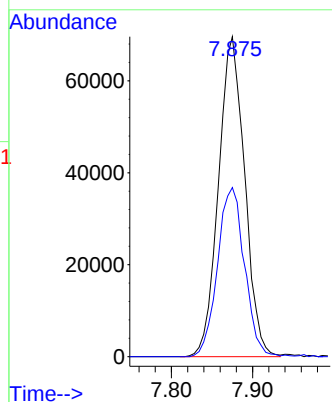
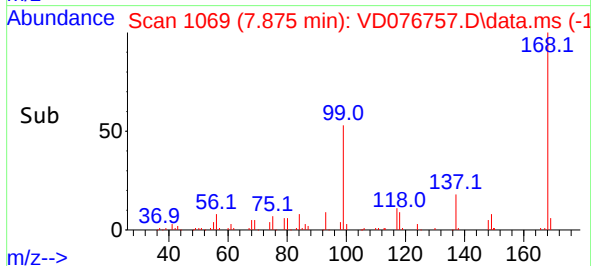


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. 0.000 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26

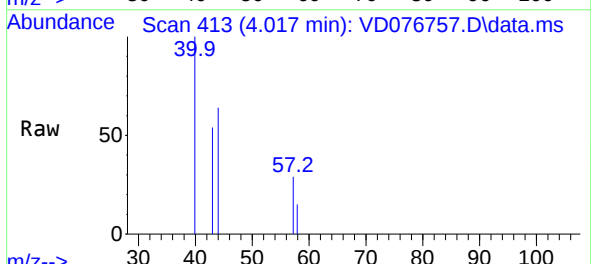
Instrument :  
MSVOA\_D  
ClientSampleId :  
DUP



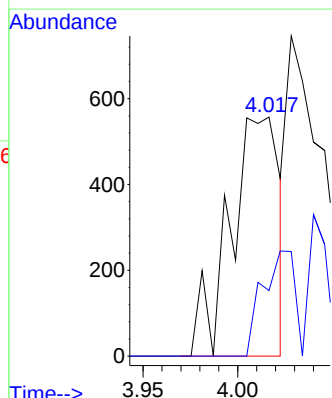
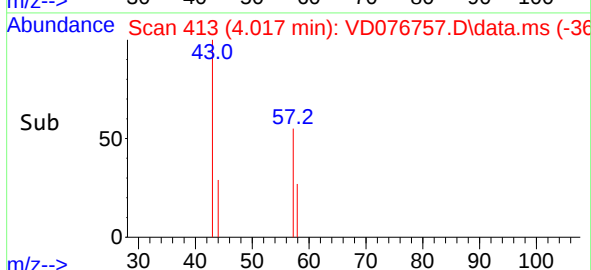
Tgt Ion:168 Resp: 155926  
Ion Ratio Lower Upper  
168 100  
99 52.9 36.7 55.1

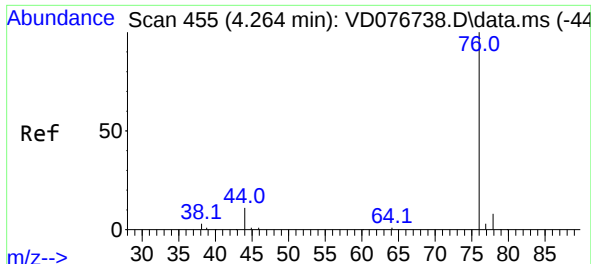


#16  
Acetone  
Concen: 2.726 ug/l  
RT: 4.017 min Scan# 413  
Delta R.T. -0.000 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26



Tgt Ion: 43 Resp: 1011  
Ion Ratio Lower Upper  
43 100  
58 27.5 34.7 52.1#

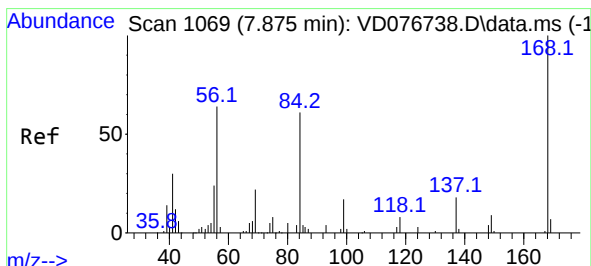
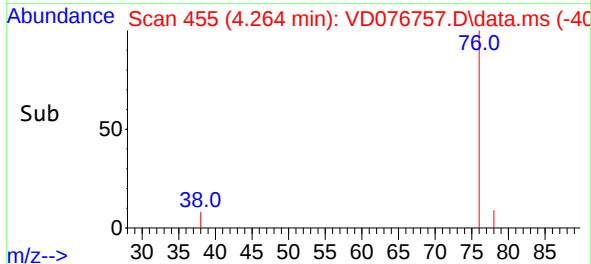
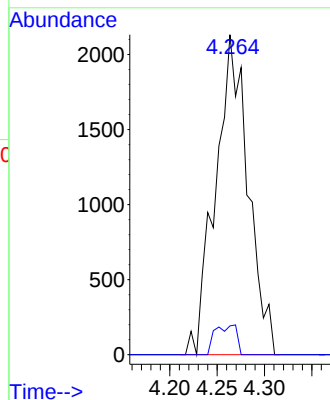
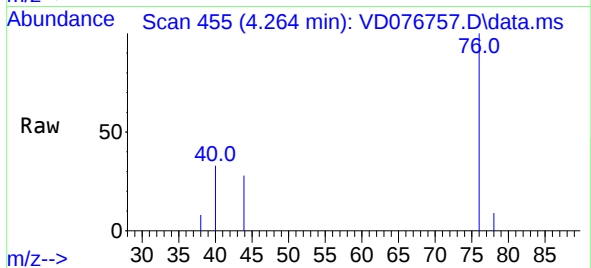




#17  
Carbon Disulfide  
Concen: 1.415 ug/l  
RT: 4.264 min Scan# 417  
Delta R.T. -0.000 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26

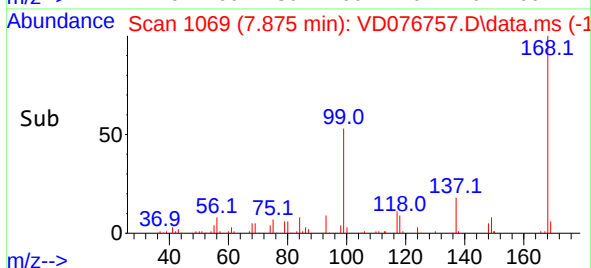
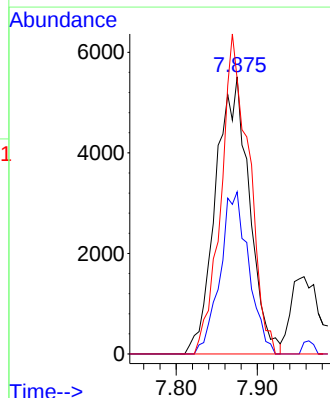
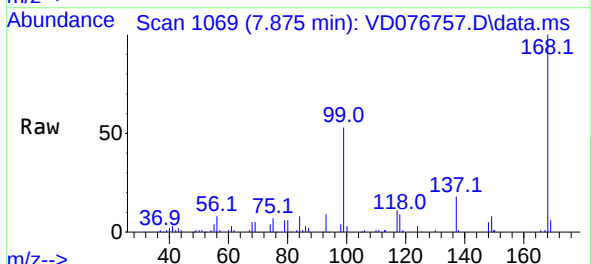
Instrument :  
MSVOA\_D  
ClientSampleId :  
DUP

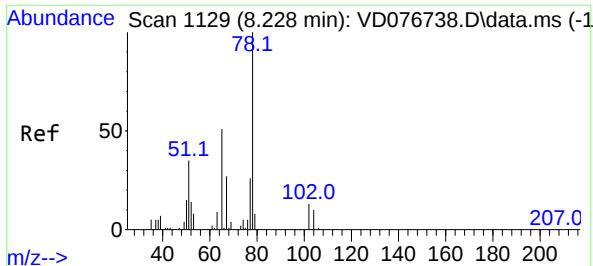
Tgt Ion: 76 Resp: 5092  
Ion Ratio Lower Upper  
76 100  
78 9.0 6.8 10.2



#31  
Cyclohexane  
Concen: 6.948 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. 0.000 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26

Tgt Ion: 56 Resp: 15880  
Ion Ratio Lower Upper  
56 100  
69 58.5 28.6 43.0#  
84 99.2 84.8 127.2





#33

1,2-Dichloroethane-d4

Concen: 62.167 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VD076757.D

Acq: 17 Jul 2023 16:26

Instrument :

MSVOA\_D

ClientSampleId :

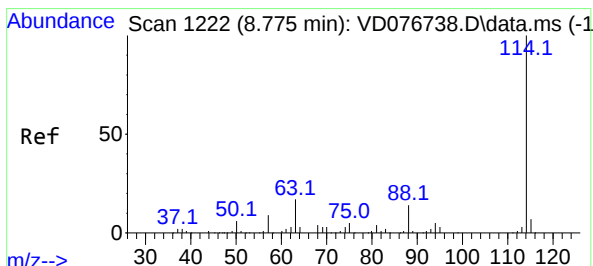
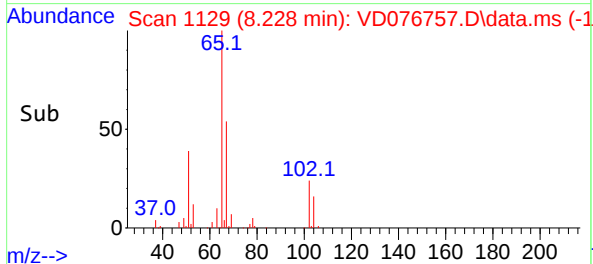
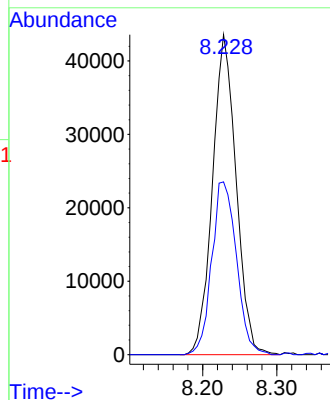
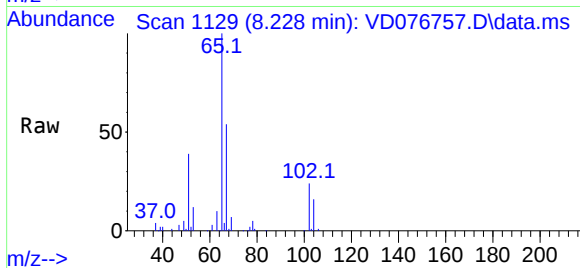
DUP

Tgt Ion: 65 Resp: 96549

Ion Ratio Lower Upper

65 100

67 56.4 0.0 115.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. -0.000 min

Lab File: VD076757.D

Acq: 17 Jul 2023 16:26

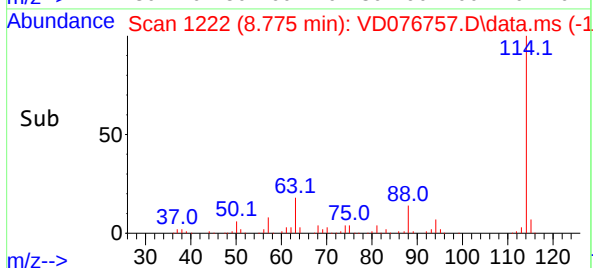
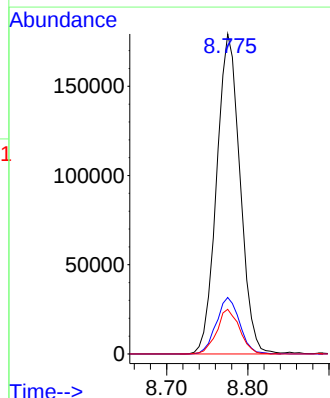
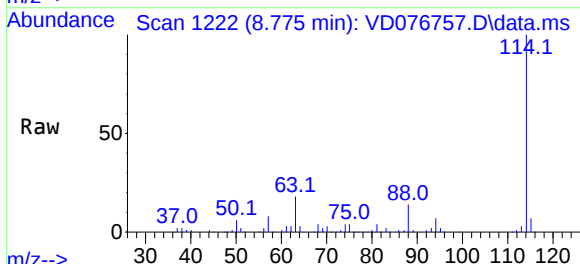
Tgt Ion: 114 Resp: 359050

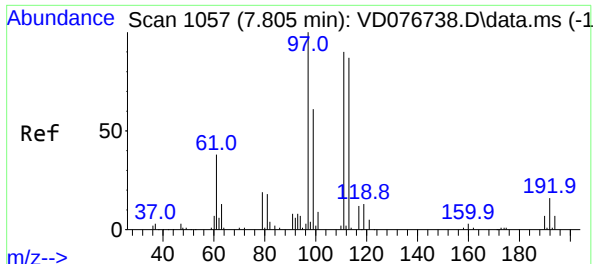
Ion Ratio Lower Upper

114 100

63 17.7 0.0 33.4

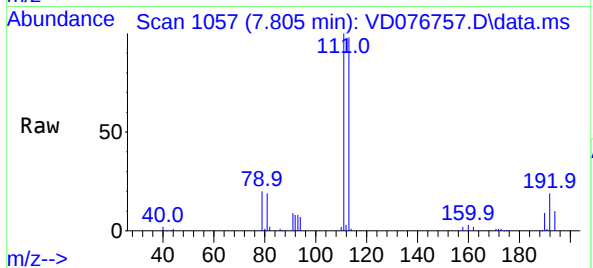
88 14.0 0.0 26.2



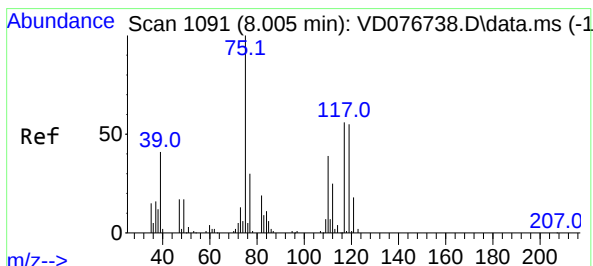
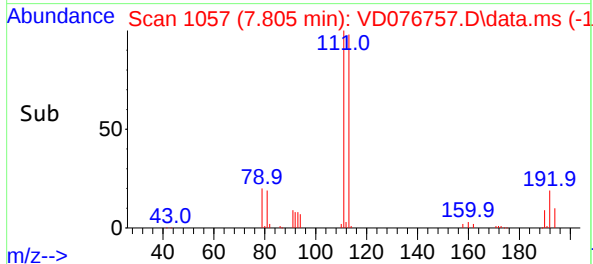
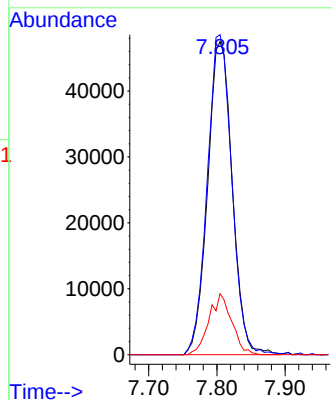


#35  
Dibromofluoromethane  
Concen: 52.921 ug/l  
RT: 7.805 min Scan# 1067  
Delta R.T. -0.000 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26

Instrument :  
MSVOA\_D  
ClientSampleId :  
DUP

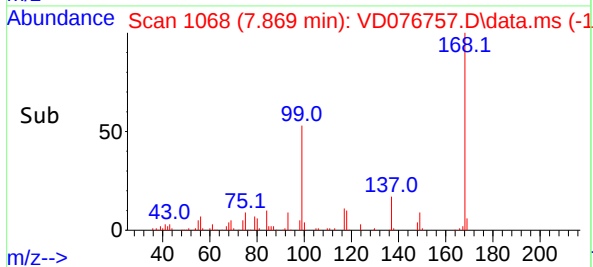
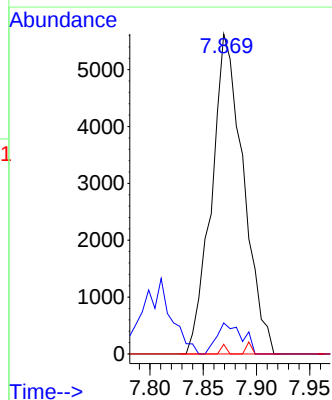
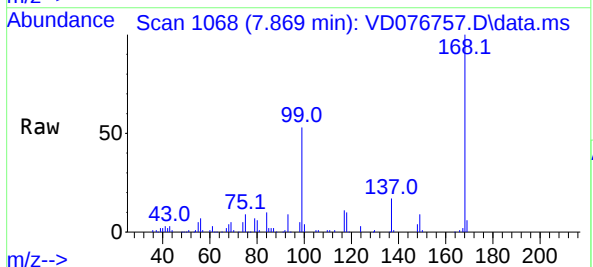


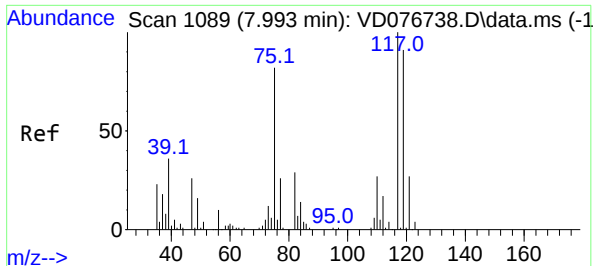
Tgt Ion:113 Resp: 119406  
Ion Ratio Lower Upper  
113 100  
111 101.8 84.7 127.1  
192 17.9 16.8 25.2



#36  
1,1-Dichloropropene  
Concen: 3.952 ug/l  
RT: 7.869 min Scan# 1068  
Delta R.T. -0.136 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26

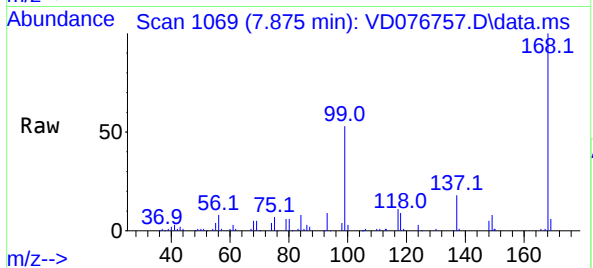
Tgt Ion: 75 Resp: 11651  
Ion Ratio Lower Upper  
75 100  
110 7.7 19.9 59.6#  
77 0.5 24.7 37.1#



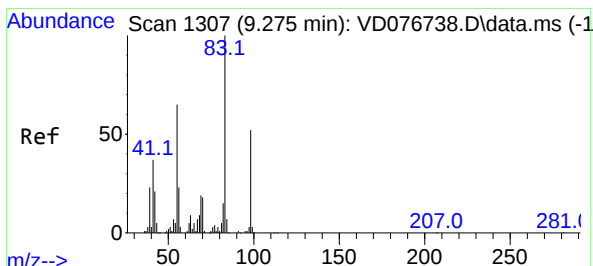
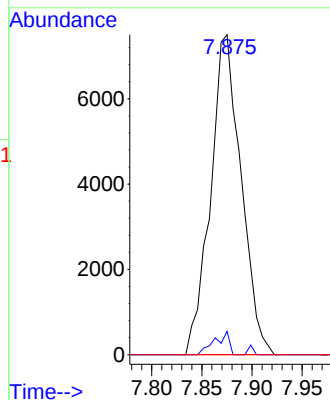
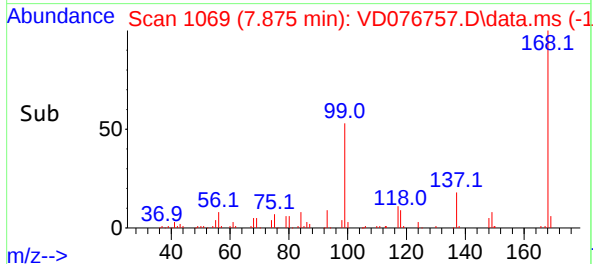


#38  
Carbon Tetrachloride  
Concen: 5.626 ug/l  
RT: 7.875 min Scan# 1089  
Delta R.T. -0.118 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26

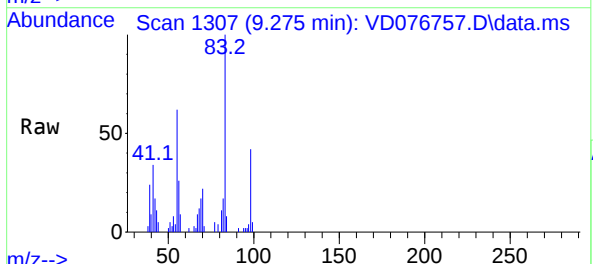
Instrument :  
MSVOA\_D  
ClientSampleId :  
DUP



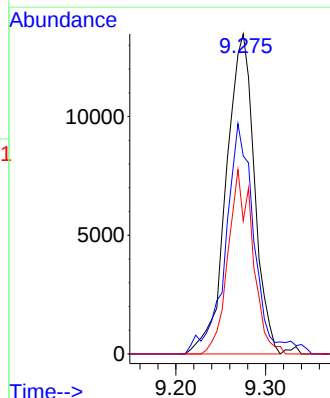
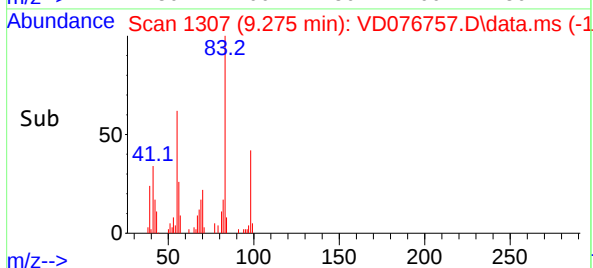
Tgt Ion:117 Resp: 15883  
Ion Ratio Lower Upper  
117 100  
119 7.3 78.0 117.0#  
121 0.0 24.2 36.2#

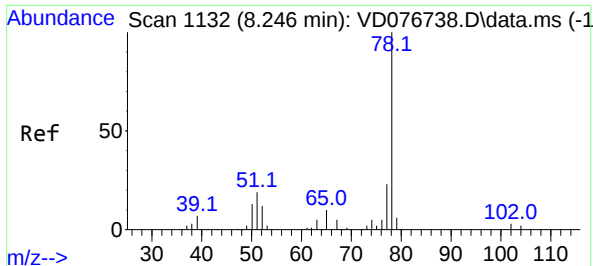


#39  
Methylcyclohexane  
Concen: 8.625 ug/l  
RT: 9.275 min Scan# 1307  
Delta R.T. 0.000 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26



Tgt Ion: 83 Resp: 29363  
Ion Ratio Lower Upper  
83 100  
55 61.9 49.4 74.0  
98 41.6 38.4 57.6

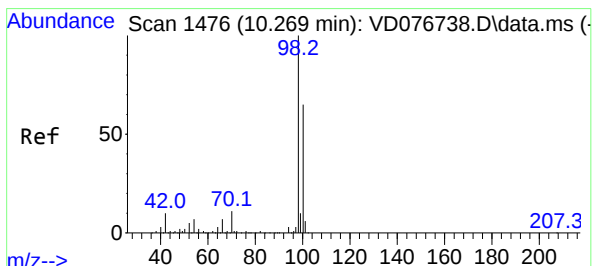
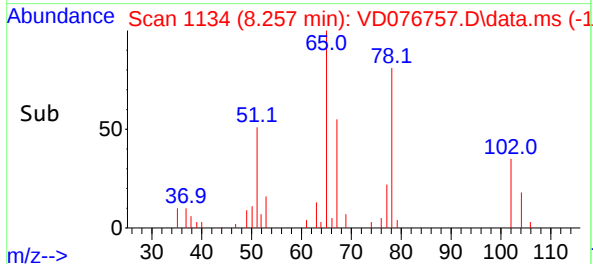
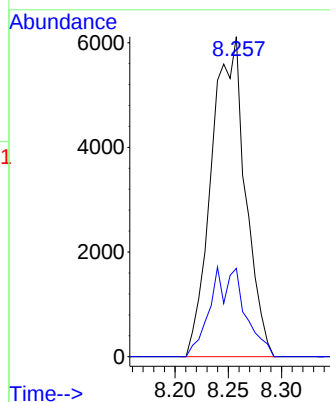
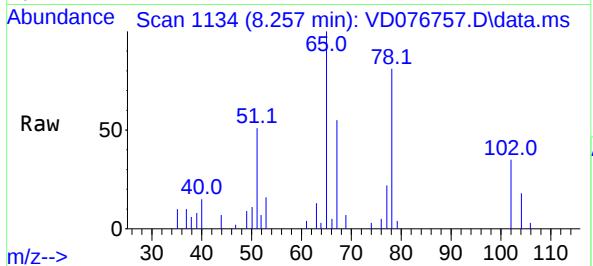




#40  
Benzene  
Concen: 1.451 ug/l  
RT: 8.257 min Scan# 1134  
Delta R.T. 0.011 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26

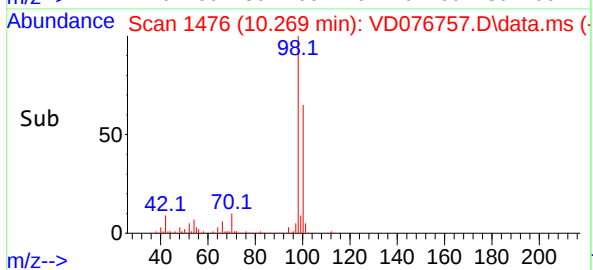
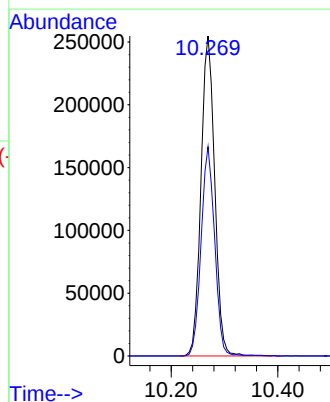
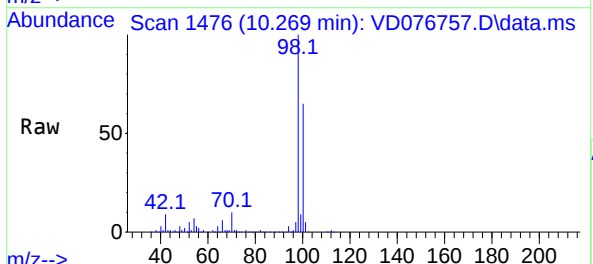
Instrument :  
MSVOA\_D  
ClientSampleId :  
DUP

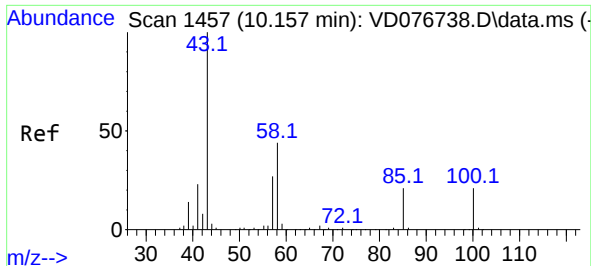
Tgt Ion: 78 Resp: 13496  
Ion Ratio Lower Upper  
78 100  
77 27.6 19.4 29.0



#50  
Toluene-d8  
Concen: 56.333 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26

Tgt Ion: 98 Resp: 454702  
Ion Ratio Lower Upper  
98 100  
100 64.5 50.3 75.5

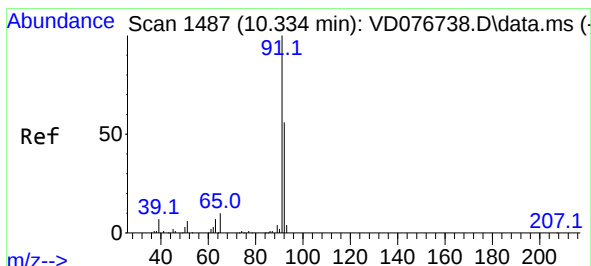
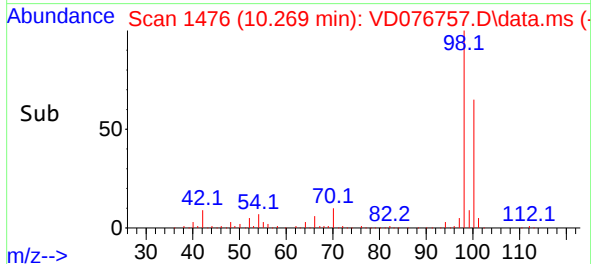
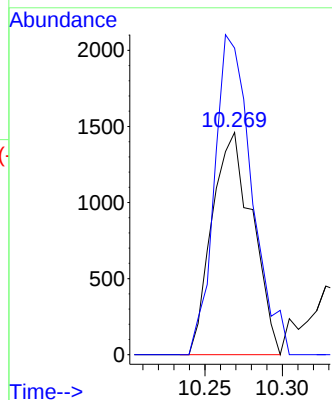
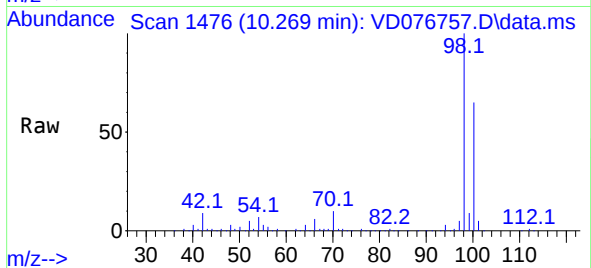




#51  
4-Methyl-2-Pentanone  
Concen: 1.925 ug/l  
RT: 10.269 min Scan# 1457  
Delta R.T. 0.112 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26

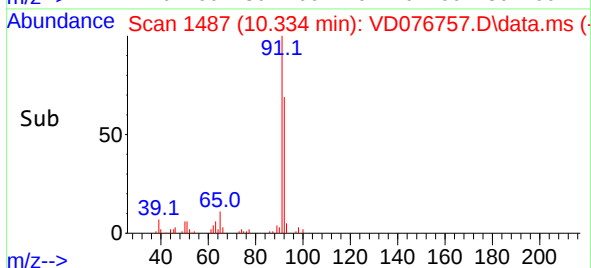
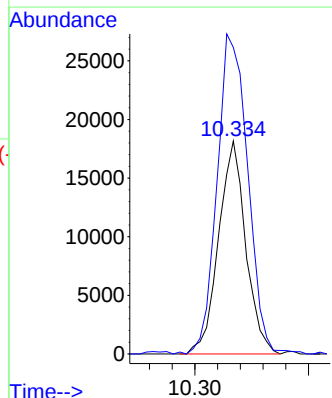
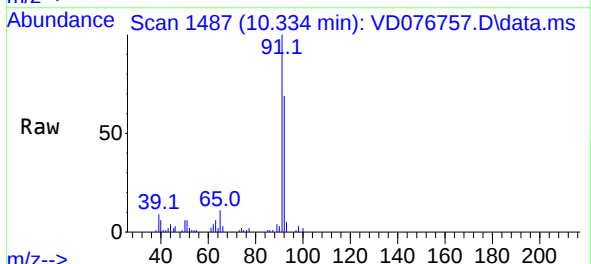
Instrument :  
MSVOA\_D  
ClientSampleId :  
DUP

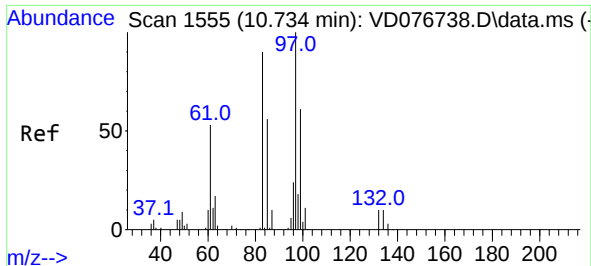
Tgt Ion: 43 Resp: 2637  
Ion Ratio Lower Upper  
43 100  
58 133.9 38.9 58.3#



#52  
Toluene  
Concen: 4.938 ug/l  
RT: 10.334 min Scan# 1487  
Delta R.T. -0.000 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26

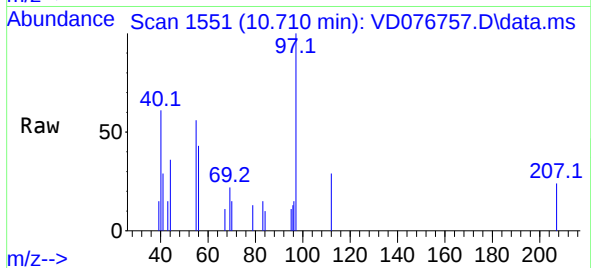
Tgt Ion: 92 Resp: 30169  
Ion Ratio Lower Upper  
92 100  
91 169.7 143.0 214.4





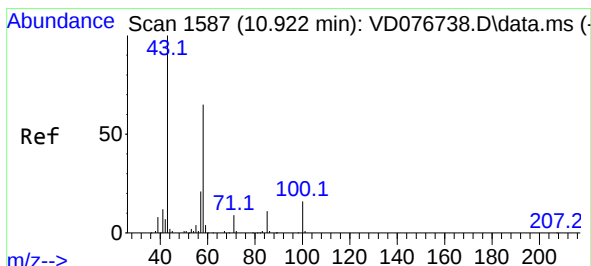
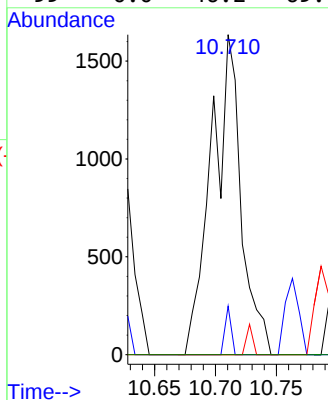
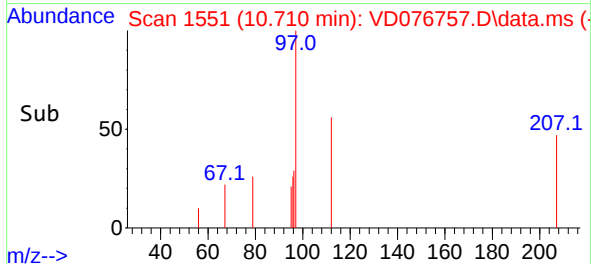
#55  
1,1,2-Trichloroethane  
Concen: 1.351 ug/l  
RT: 10.710 min Scan# 1551  
Delta R.T. -0.024 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26

Instrument :  
MSVOA\_D  
ClientSampleId :  
DUP



Tgt Ion: 97 Resp: 2773

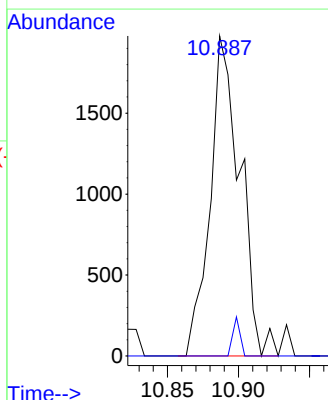
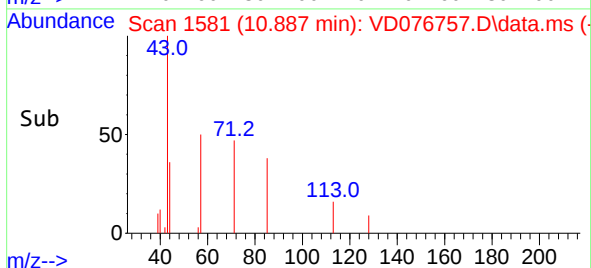
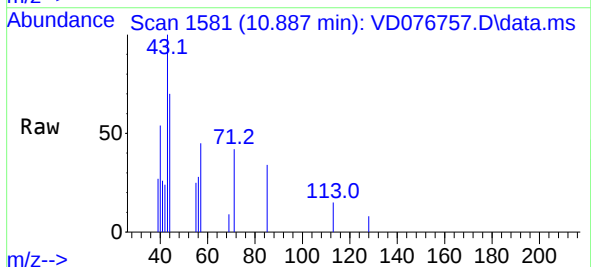
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 15.2  | 65.8  | 98.6# |
| 85  | 0.0   | 45.7  | 68.5# |
| 99  | 0.0   | 46.2  | 69.4# |

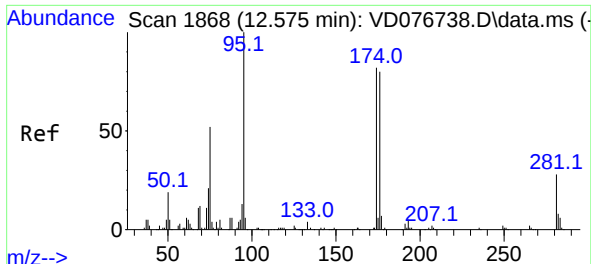


#59  
2-Hexanone  
Concen: 2.973 ug/l  
RT: 10.887 min Scan# 1581  
Delta R.T. -0.035 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26

Tgt Ion: 43 Resp: 2906

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 43  | 100   |       |        |
| 58  | 2.9   | 34.1  | 102.2# |

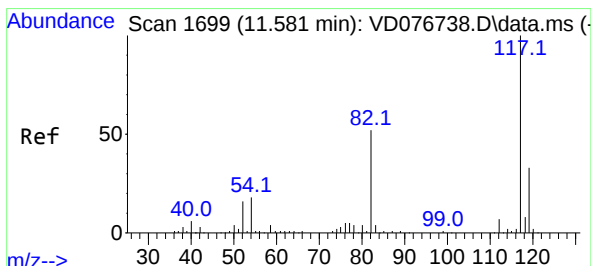
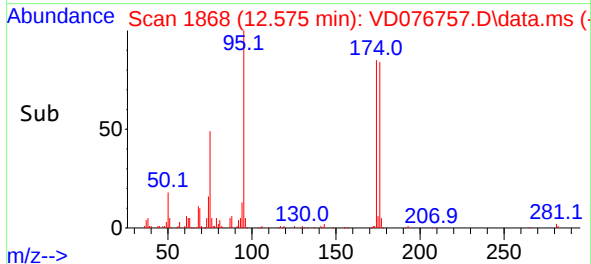
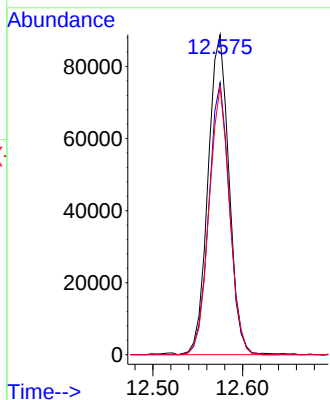
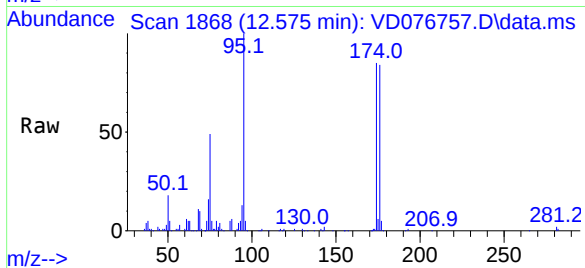




#62  
4-Bromofluorobenzene  
Concen: 55.134 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.000 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26

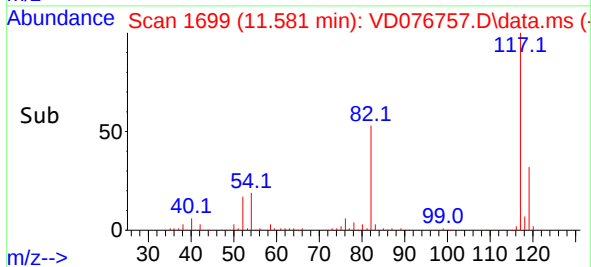
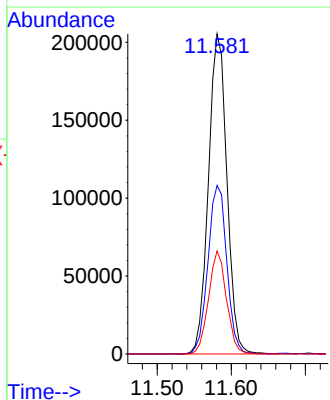
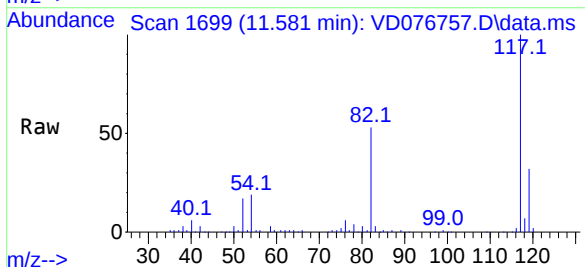
Instrument :  
MSVOA\_D  
ClientSampleId :  
DUP

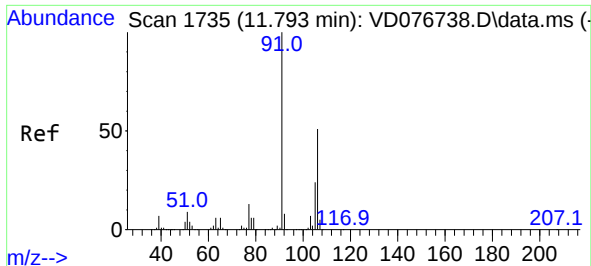
Tgt Ion: 95 Resp: 143964  
Ion Ratio Lower Upper  
95 100  
174 84.1 0.0 201.8  
176 81.9 0.0 191.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1699  
Delta R.T. -0.000 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26

Tgt Ion: 117 Resp: 355539  
Ion Ratio Lower Upper  
117 100  
82 52.6 38.3 57.5  
119 32.2 25.0 37.4

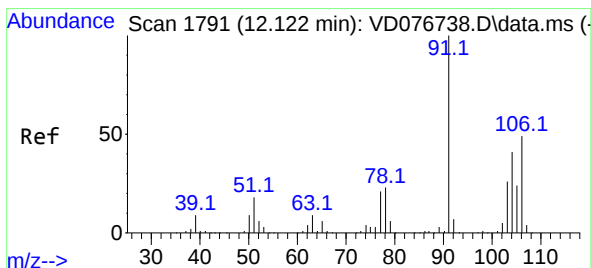
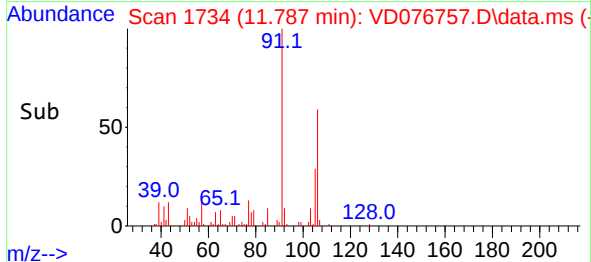
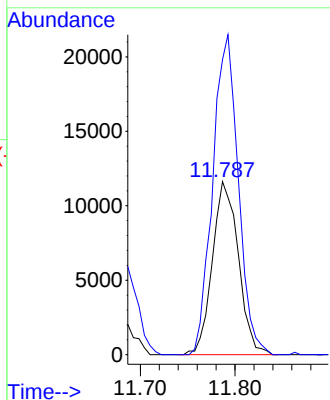
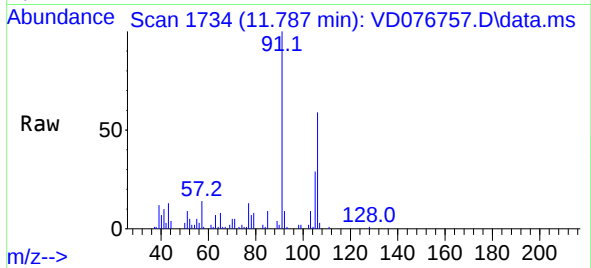




#68  
m/p-Xylenes  
Concen: 4.594 ug/l  
RT: 11.787 min Scan# 1173  
Delta R.T. -0.006 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26

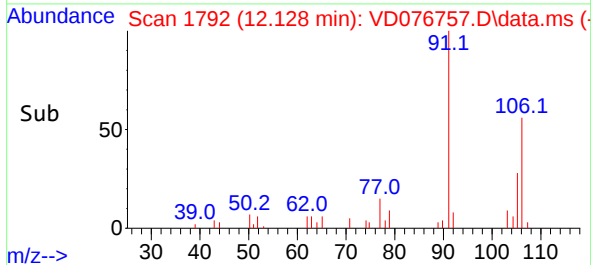
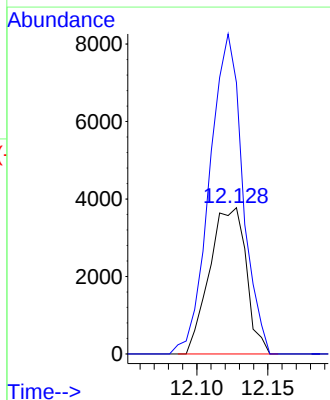
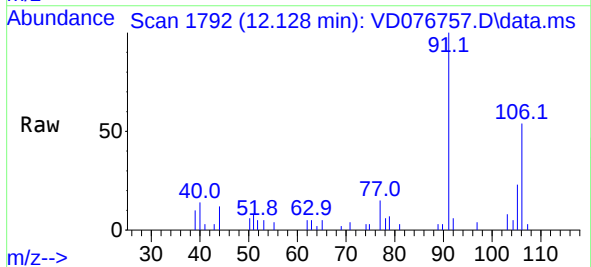
Instrument :  
MSVOA\_D  
ClientSampleId :  
DUP

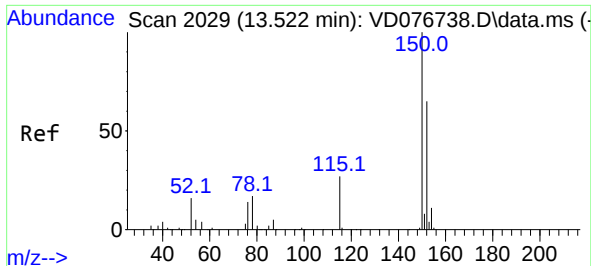
Tgt Ion:106 Resp: 22159  
Ion Ratio Lower Upper  
106 100  
91 182.2 147.0 220.6



#69  
o-Xylene  
Concen: 1.449 ug/l  
RT: 12.128 min Scan# 1792  
Delta R.T. 0.006 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26

Tgt Ion:106 Resp: 6757  
Ion Ratio Lower Upper  
106 100  
91 198.0 97.9 293.6

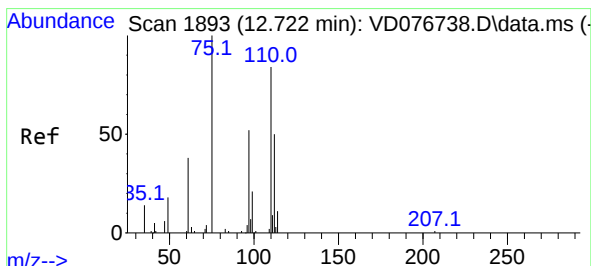
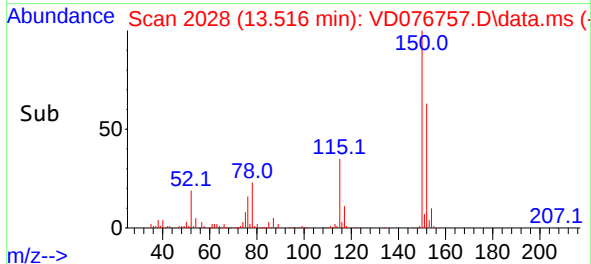
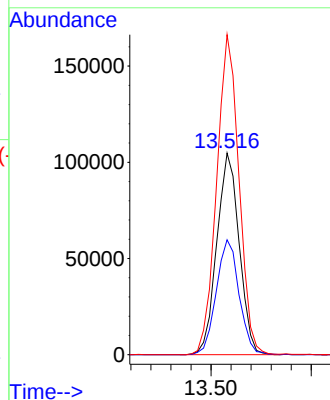
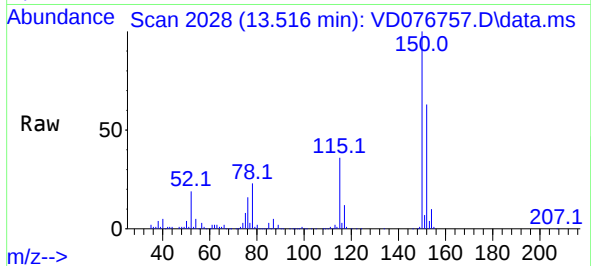




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.516 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26

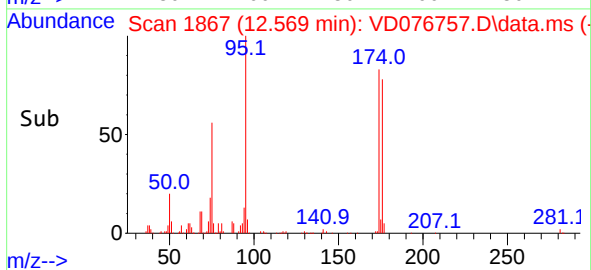
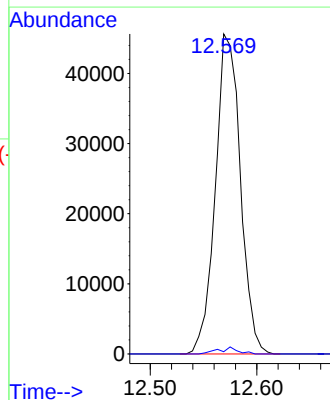
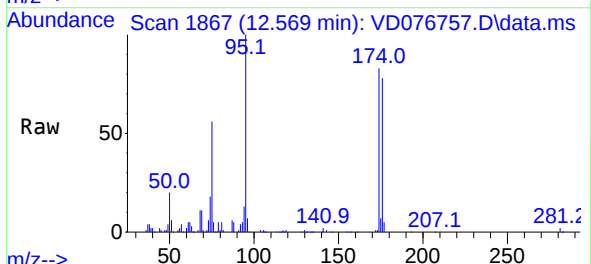
Instrument :  
MSVOA\_D  
ClientSampleId :  
DUP

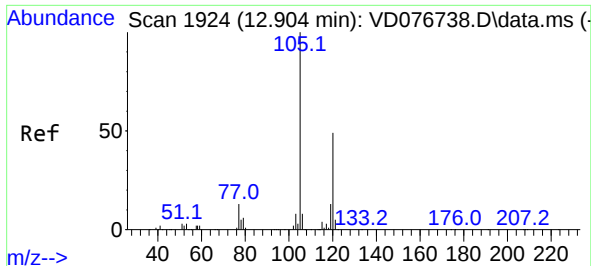
Tgt Ion:152 Resp: 162312  
Ion Ratio Lower Upper  
152 100  
115 58.1 27.1 81.3  
150 158.4 0.0 353.6



#76  
1,2,3-Trichloropropane  
Concen: 48.114 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. -0.153 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26

Tgt Ion: 75 Resp: 74267  
Ion Ratio Lower Upper  
75 100  
77 1.7 0.0 0.0#

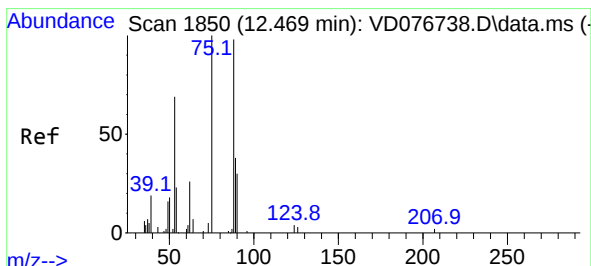
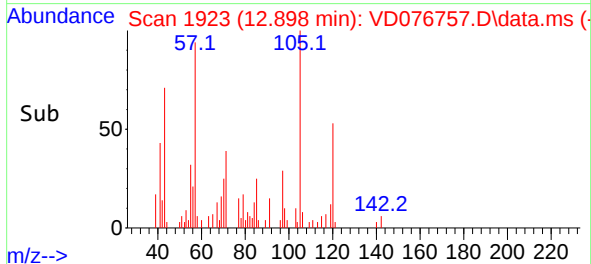
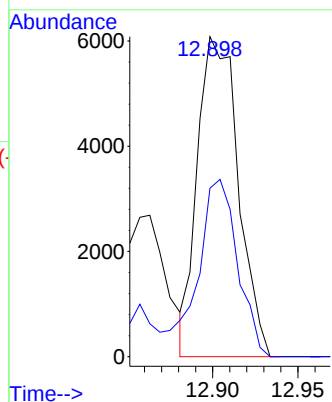
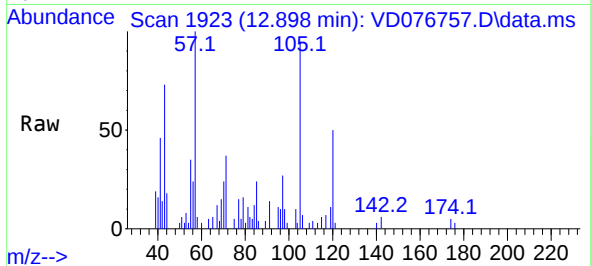




#80  
1,3,5-Trimethylbenzene  
Concen: 1.059 ug/l  
RT: 12.898 min Scan# 1924  
Delta R.T. -0.006 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26

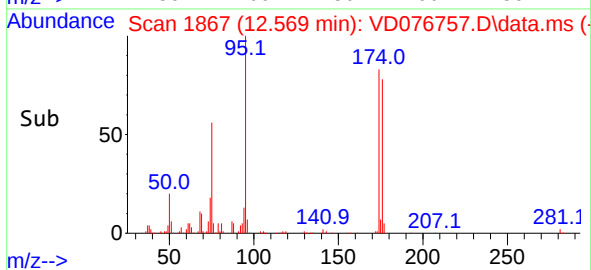
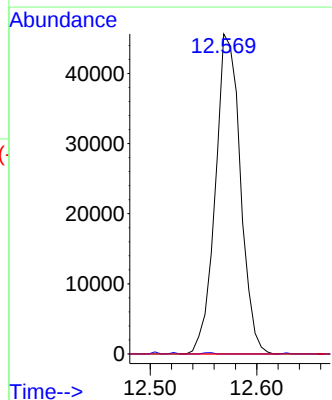
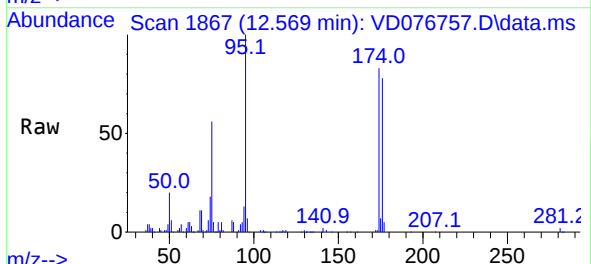
Instrument :  
MSVOA\_D  
ClientSampleId :  
DUP

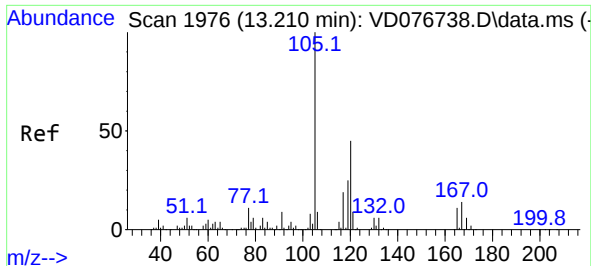
Tgt Ion:105 Resp: 10084  
Ion Ratio Lower Upper  
105 100  
120 54.7 26.4 79.2



#81  
trans-1,4-Dichloro-2-butene  
Concen: 102.399 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. 0.100 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26

Tgt Ion: 75 Resp: 74267  
Ion Ratio Lower Upper  
75 100  
53 0.2 63.0 94.4#  
89 0.0 37.9 56.9#

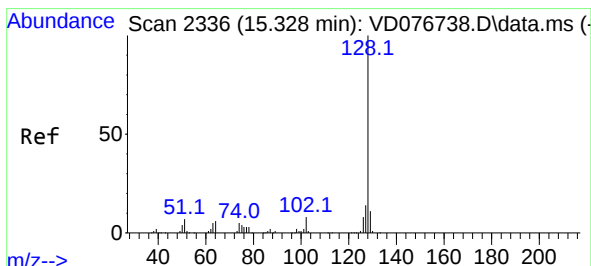
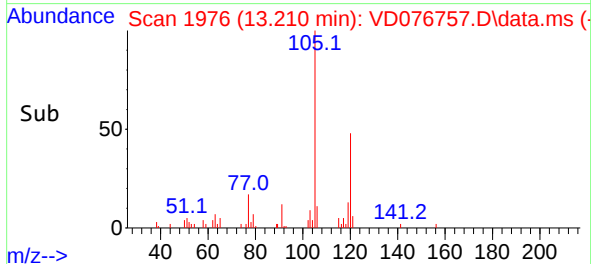
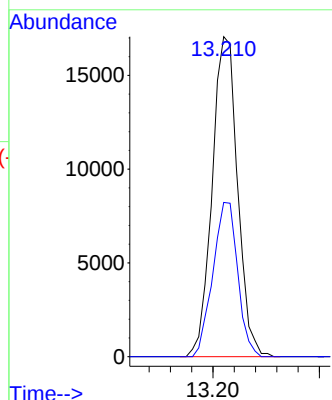
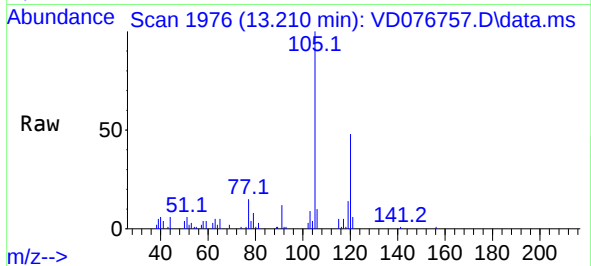




#84  
1,2,4-Trimethylbenzene  
Concen: 2.900 ug/l  
RT: 13.210 min Scan# 1976  
Delta R.T. 0.000 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26

Instrument :  
MSVOA\_D  
ClientSampleId :  
DUP

Tgt Ion:105 Resp: 28216  
Ion Ratio Lower Upper  
105 100  
120 47.0 24.3 72.9



#95  
Naphthalene  
Concen: 1.398 ug/l  
RT: 15.328 min Scan# 2336  
Delta R.T. -0.000 min  
Lab File: VD076757.D  
Acq: 17 Jul 2023 16:26

Tgt Ion:128 Resp: 9102  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.5 15.7  
129 12.2 8.7 13.1

