

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY090922\  
 Data File : VY010435.D  
 Acq On : 09 Sep 2022 22:03  
 Operator : KP/MD  
 Sample : N4520-01  
 Misc : 5.01g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 600535069

Quant Time: Sep 12 03:01:24 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090922S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 09 17:08:30 2022  
 Response via : Initial Calibration

| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.783     | 168   | 188766   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685     | 114   | 315169   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.489    | 117   | 295692   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422    | 152   | 137507   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.136     | 65    | 104682   | 55.062    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 110.120% |          |
| 35) Dibromofluoromethane      | 7.710     | 113   | 97843    | 43.712    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 87.420%  |          |
| 50) Toluene-d8                | 10.179    | 98    | 372709   | 51.377    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 49 - 140 | Recovery  | = 102.760% |          |
| 62) 4-Bromofluorobenzene      | 12.477    | 95    | 125610   | 42.797    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 25 - 144 | Recovery  | = 85.600%  |          |
| Target Compounds              |           |       |          |           |            |          |
|                               |           |       |          |           | Qvalue     |          |
| 2) Dichlorodifluoromethane    | 1.900     | 85    | 84       | Below Cal | #          | 43       |
| 11) Tert butyl alcohol        | 4.936     | 59    | 2058     | Below Cal | #          | 77       |
| 16) Acetone                   | 3.936     | 43    | 1152     | 2.640     | ug/l       | 95       |
| 20) Methylene Chloride        | 4.704     | 84    | 9924     | Below Cal | #          | 83       |
| 25) 2-Butanone                | 6.972     | 43    | 2517     | 3.630     | ug/l       | # 70     |
| 26) 2,2-Dichloropropane       | 6.972     | 77    | 3541     | 1.047     | ug/l       | # 55     |
| 31) Cyclohexane               | 7.783     | 56    | 4001     | 1.246     | ug/l       | # 1      |
| 36) 1,1-Dichloropropene       | 7.783     | 75    | 13447    | 4.388     | ug/l       | # 53     |
| 37) Ethyl Acetate             | 6.972     | 43    | 2517     | 1.562     | ug/l       | # 1      |
| 38) Carbon Tetrachloride      | 7.783     | 117   | 18324    | 5.375     | ug/l       | # 16     |
| 76) 1,2,3-Trichloropropane    | 12.477    | 75    | 65830    | 43.377    | ug/l       | # 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.477    | 75    | 65830    | 96.313    | ug/l       | # 7      |
| -----                         |           |       |          |           |            |          |

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

Quant Time: Sep 12 03:01:24 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090922S.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 09 17:08:30 2022  
Response via : Initial Calibration

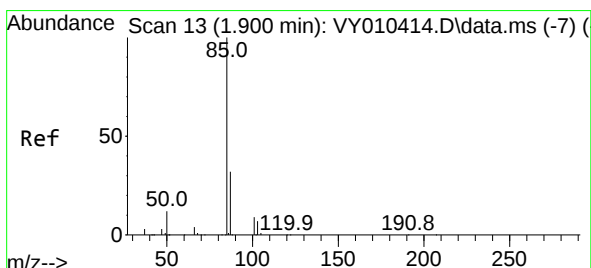
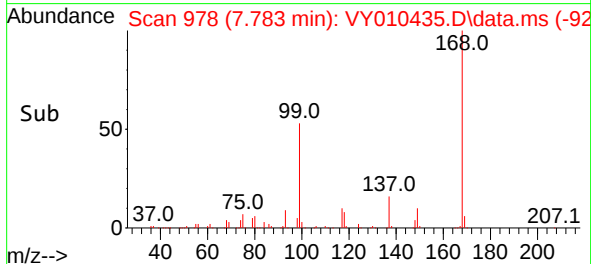
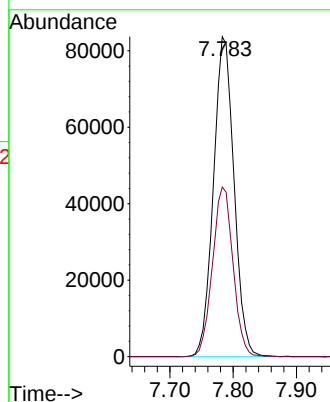
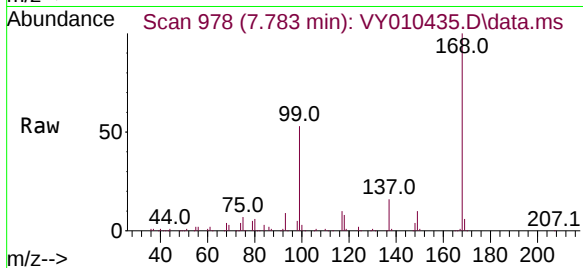




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY010435.D  
Acq: 09 Sep 2022 22:03

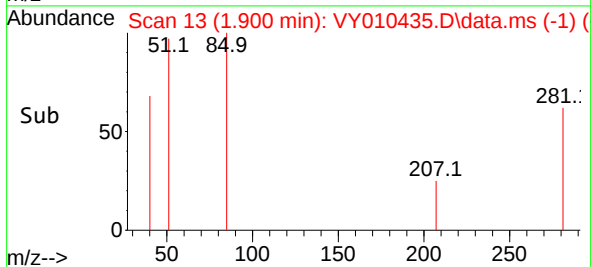
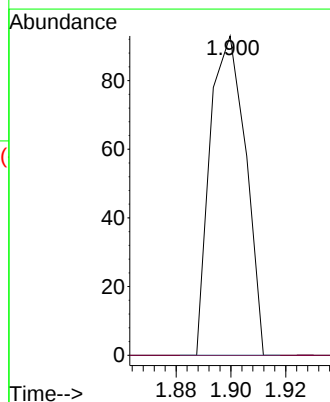
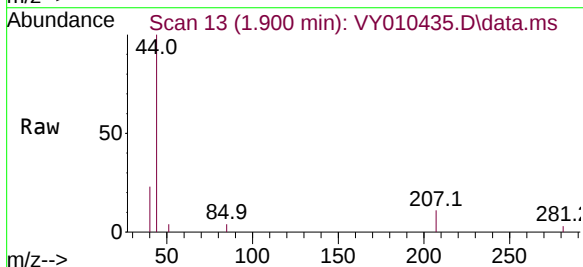
Instrument :  
MSVOA\_Y  
ClientSampleId :  
600535069

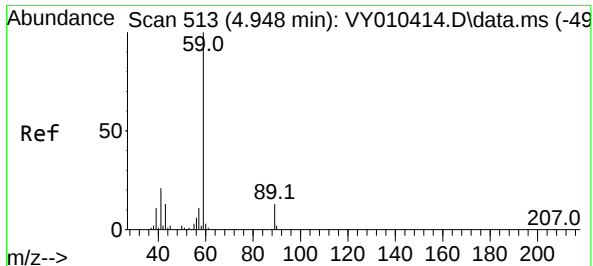
Tgt Ion:168 Resp: 188766  
Ion Ratio Lower Upper  
168 100  
99 53.0 46.9 70.3



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.900 min Scan# 13  
Delta R.T. -0.000 min  
Lab File: VY010435.D  
Acq: 09 Sep 2022 22:03

Tgt Ion: 85 Resp: 84  
Ion Ratio Lower Upper  
85 100  
87 0.0 16.1 48.2#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.936 min Scan# 51

Delta R.T. -0.012 min

Lab File: VY010435.D

Acq: 09 Sep 2022 22:03

Instrument :

MSVOA\_Y

ClientSampleId :

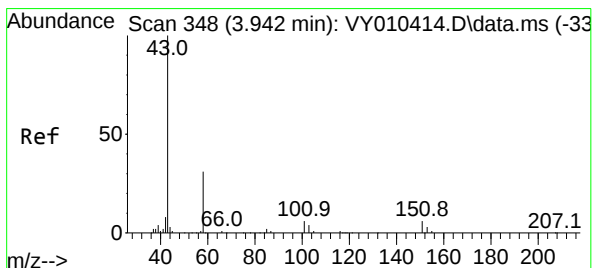
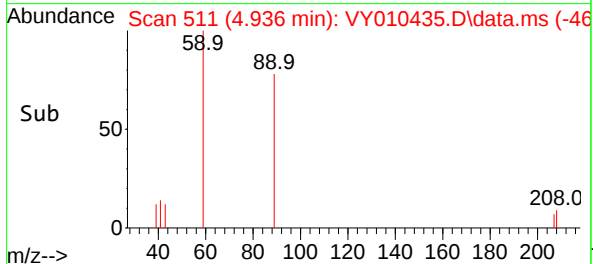
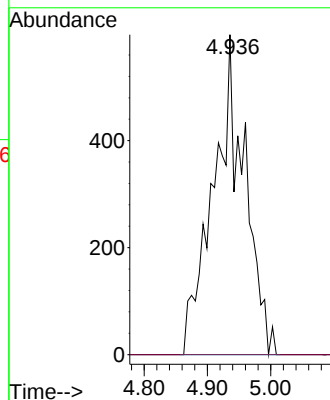
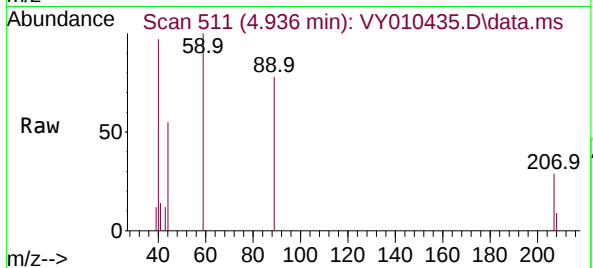
600535069

Tgt Ion: 59 Resp: 2058

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#



#16

Acetone

Concen: 2.640 ug/l

RT: 3.936 min Scan# 347

Delta R.T. -0.006 min

Lab File: VY010435.D

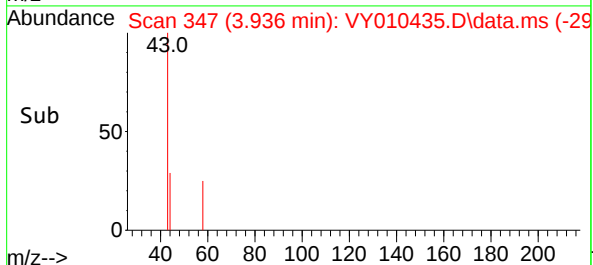
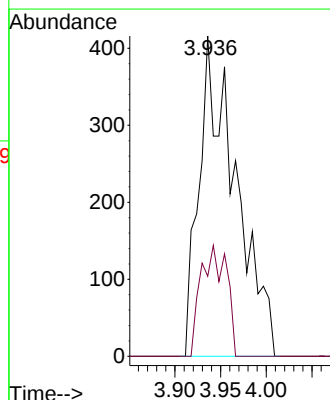
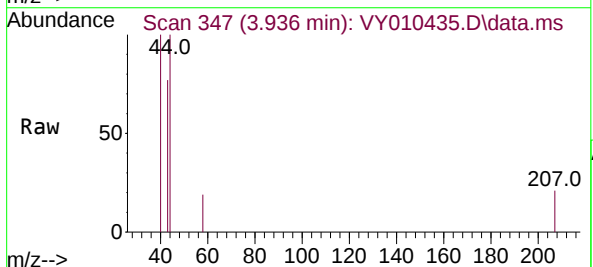
Acq: 09 Sep 2022 22:03

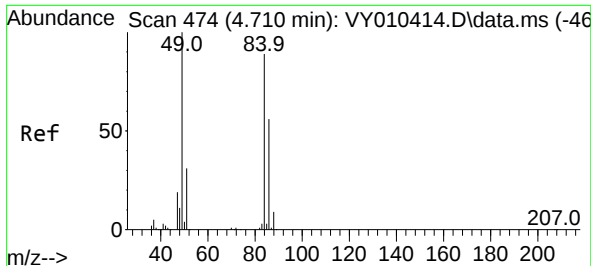
Tgt Ion: 43 Resp: 1152

Ion Ratio Lower Upper

43 100

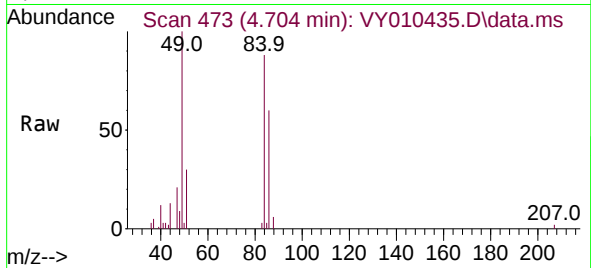
58 25.0 22.0 33.0



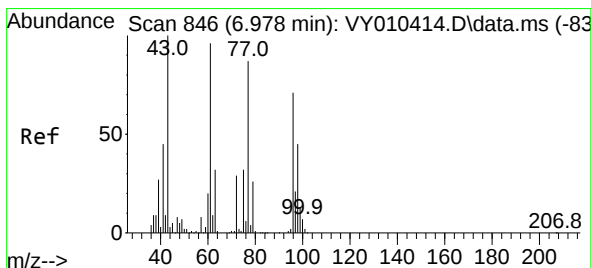
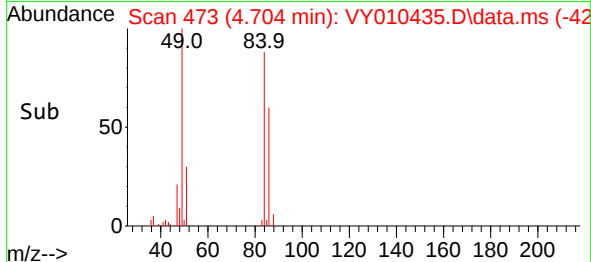
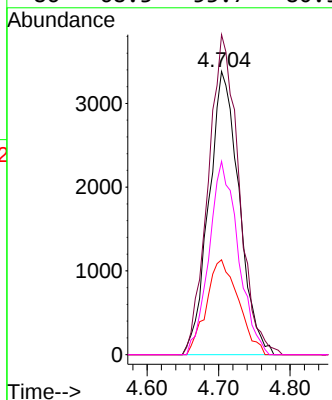


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.704 min Scan# 41  
Delta R.T. -0.006 min  
Lab File: VY010435.D  
Acq: 09 Sep 2022 22:03

Instrument :  
MSVOA\_Y  
ClientSampleId :  
600535069

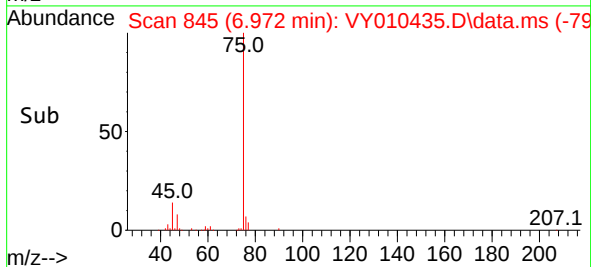
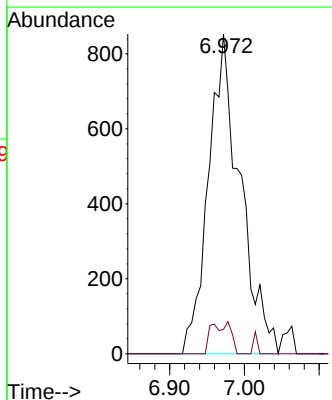
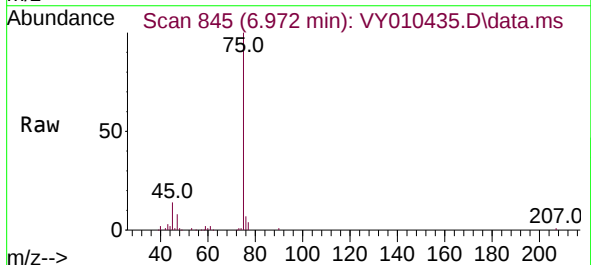


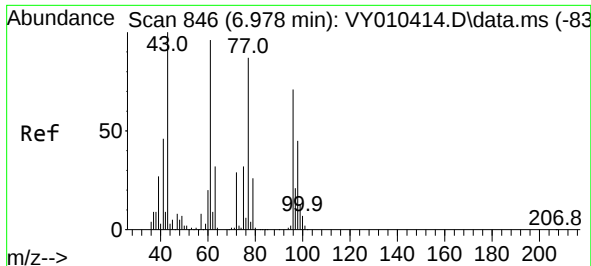
Tgt Ion: 84 Resp: 9924  
Ion Ratio Lower Upper  
84 100  
49 113.0 114.4 171.6#  
51 33.5 35.3 52.9#  
86 68.3 53.7 80.5



#25  
2-Butanone  
Concen: 3.630 ug/l  
RT: 6.972 min Scan# 845  
Delta R.T. -0.006 min  
Lab File: VY010435.D  
Acq: 09 Sep 2022 22:03

Tgt Ion: 43 Resp: 2517  
Ion Ratio Lower Upper  
43 100  
72 7.6 17.7 26.5#





#26

2,2-Dichloropropane

Concen: 1.047 ug/l

RT: 6.972 min Scan# 846

Delta R.T. -0.006 min

Lab File: VY010435.D

Acq: 09 Sep 2022 22:03

Instrument :

MSVOA\_Y

ClientSampleId :

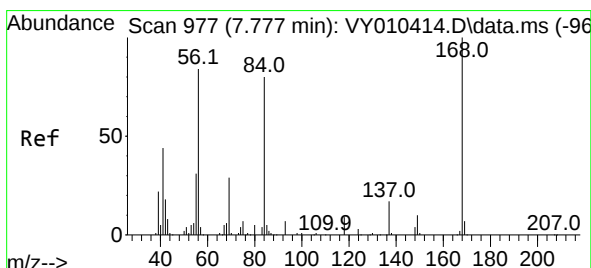
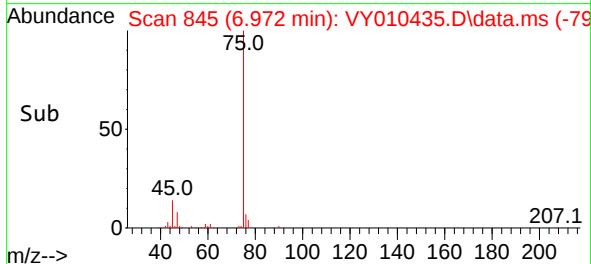
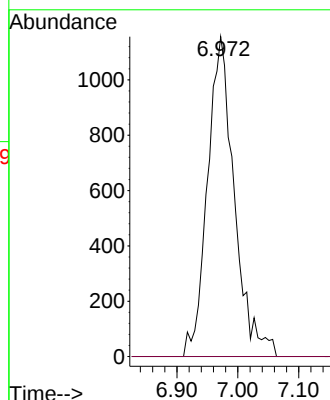
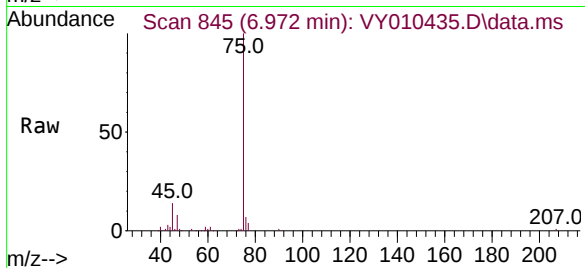
600535069

Tgt Ion: 77 Resp: 3541

Ion Ratio Lower Upper

77 100

97 0.0 10.4 31.4#



#31

Cyclohexane

Concen: 1.246 ug/l

RT: 7.783 min Scan# 978

Delta R.T. 0.006 min

Lab File: VY010435.D

Acq: 09 Sep 2022 22:03

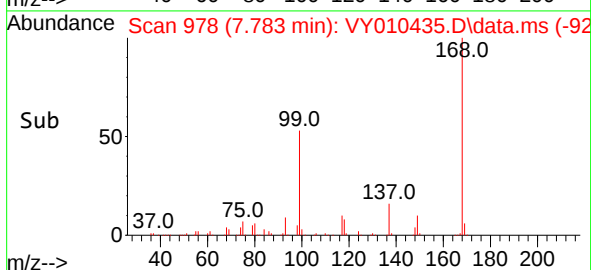
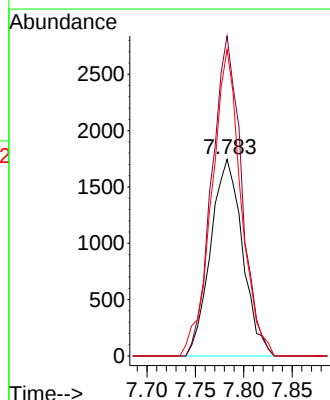
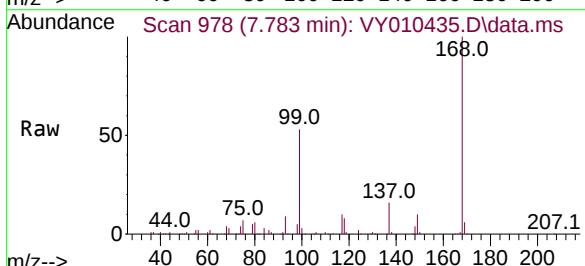
Tgt Ion: 56 Resp: 4001

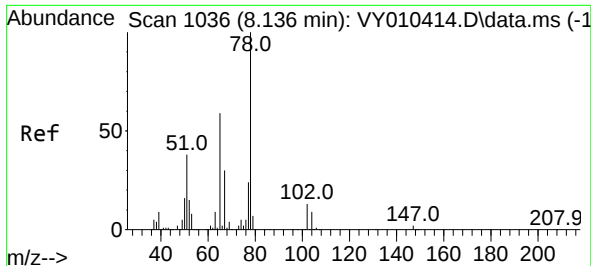
Ion Ratio Lower Upper

56 100

69 162.7 26.7 40.1#

84 155.8 67.2 100.8#

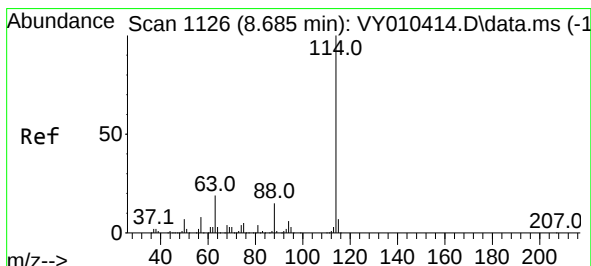
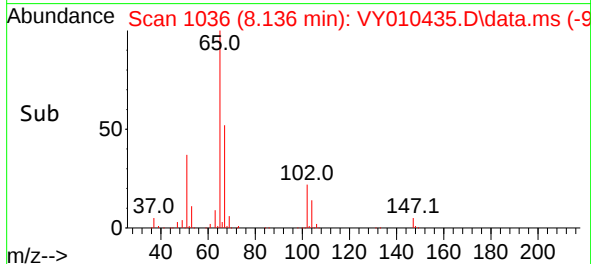
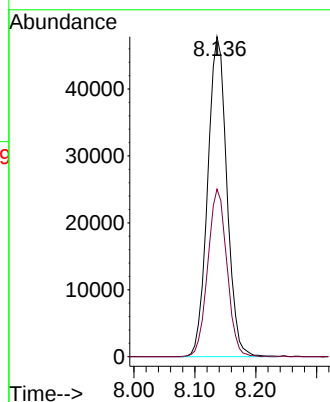
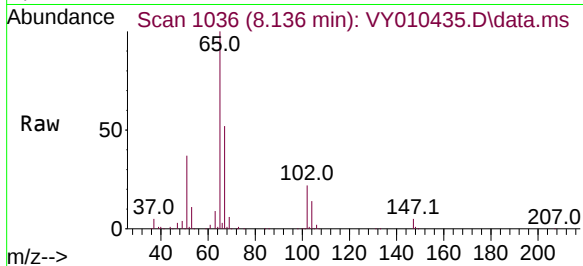




#33  
 1,2-Dichloroethane-d4  
 Concen: 55.062 ug/l  
 RT: 8.136 min Scan# 1036  
 Delta R.T. 0.000 min  
 Lab File: VY010435.D  
 Acq: 09 Sep 2022 22:03

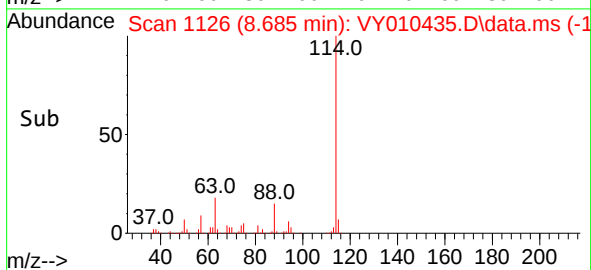
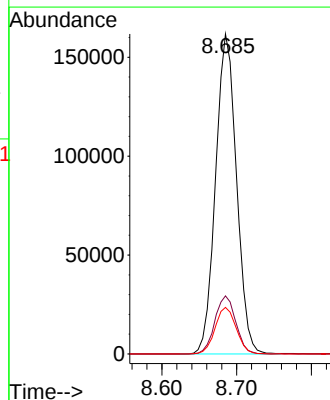
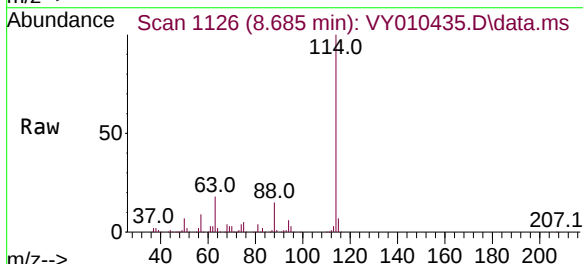
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
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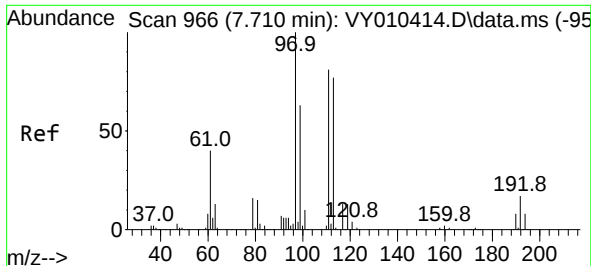
Tgt Ion: 65 Resp: 104682  
 Ion Ratio Lower Upper  
 65 100  
 67 52.1 0.0 99.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.685 min Scan# 1126  
 Delta R.T. 0.000 min  
 Lab File: VY010435.D  
 Acq: 09 Sep 2022 22:03

Tgt Ion: 114 Resp: 315169  
 Ion Ratio Lower Upper  
 114 100  
 63 18.2 0.0 43.2  
 88 14.6 0.0 31.8

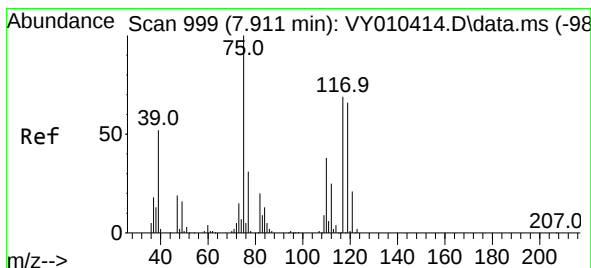
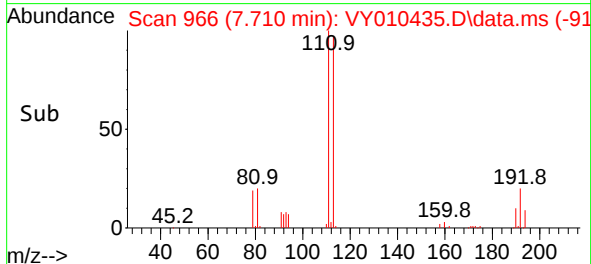
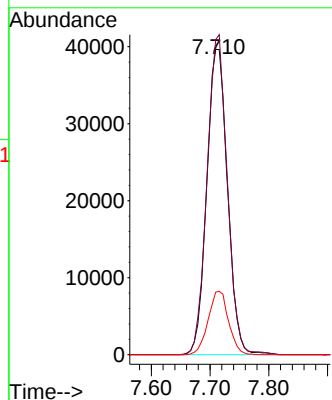
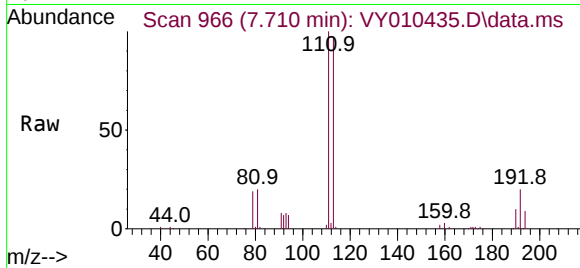




#35  
Dibromofluoromethane  
Concen: 43.712 ug/l  
RT: 7.710 min Scan# 910  
Delta R.T. -0.000 min  
Lab File: VY010435.D  
Acq: 09 Sep 2022 22:03

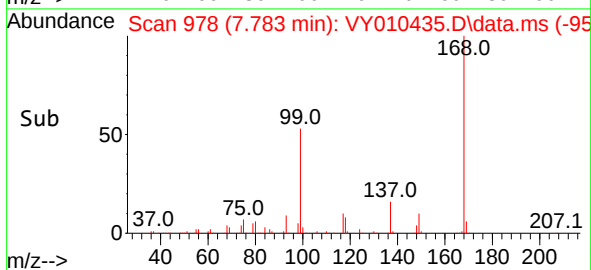
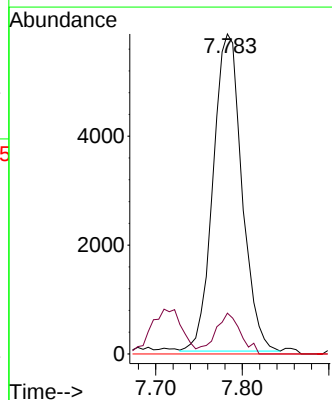
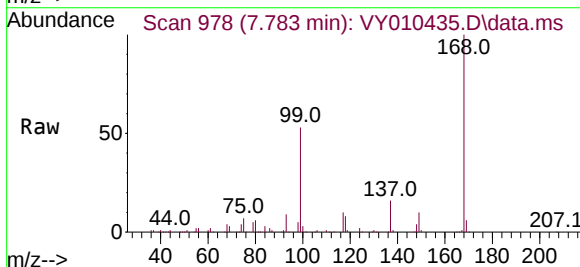
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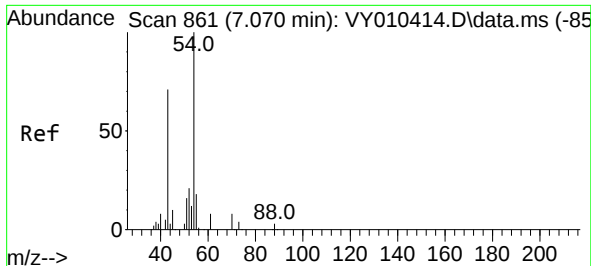
Tgt Ion:113 Resp: 97843  
Ion Ratio Lower Upper  
113 100  
111 102.0 82.6 124.0  
192 20.3 17.6 26.4



#36  
1,1-Dichloropropene  
Concen: 4.388 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.128 min  
Lab File: VY010435.D  
Acq: 09 Sep 2022 22:03

Tgt Ion: 75 Resp: 13447  
Ion Ratio Lower Upper  
75 100  
110 11.2 17.1 51.2#  
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 1.562 ug/l

RT: 6.972 min Scan# 84

Delta R.T. -0.098 min

Lab File: VY010435.D

Acq: 09 Sep 2022 22:03

Instrument :

MSVOA\_Y

ClientSampleId :

600535069

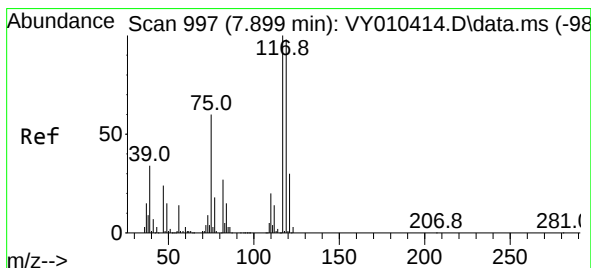
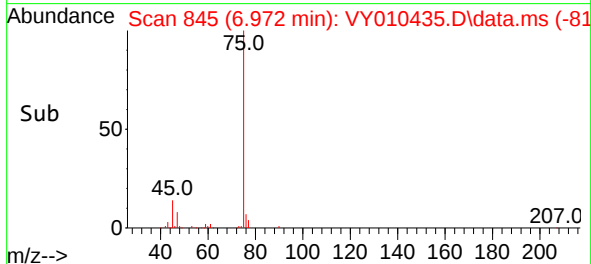
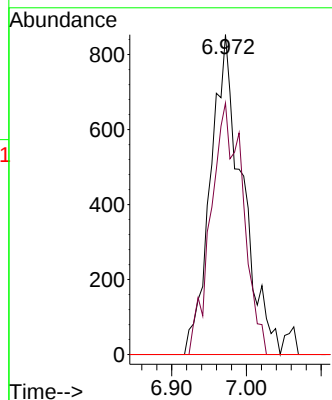
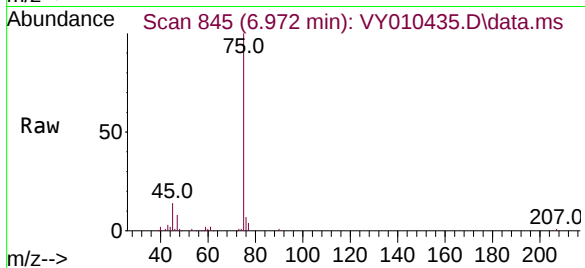
Tgt Ion: 43 Resp: 2517

Ion Ratio Lower Upper

43 100

61 79.4 9.7 14.5#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 5.375 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.116 min

Lab File: VY010435.D

Acq: 09 Sep 2022 22:03

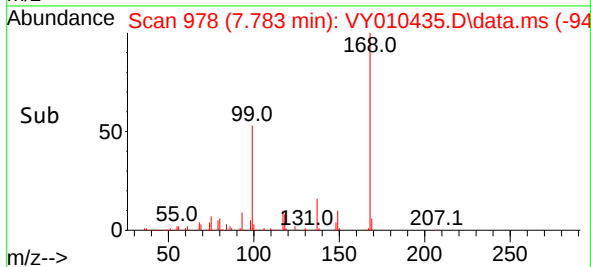
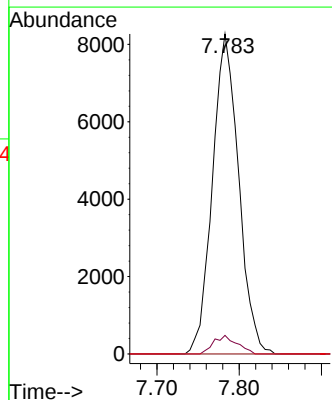
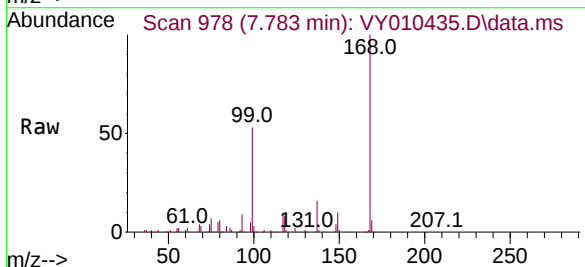
Tgt Ion: 117 Resp: 18324

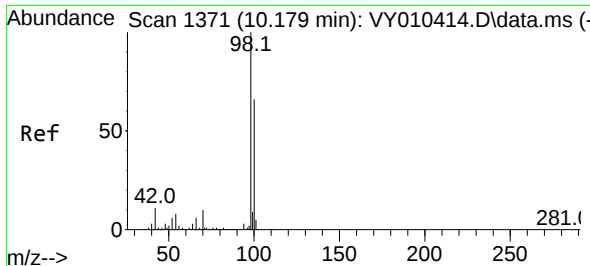
Ion Ratio Lower Upper

117 100

119 5.8 77.9 116.9#

121 0.0 24.8 37.2#

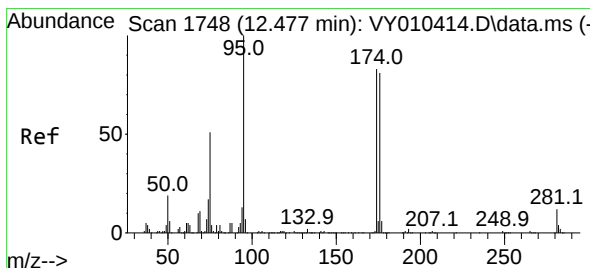
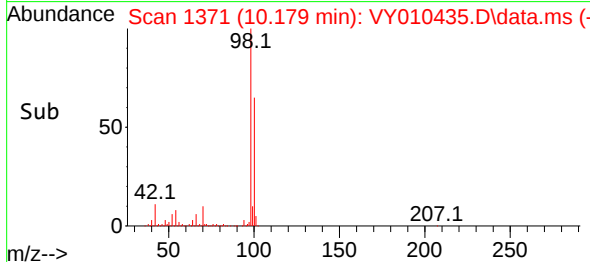
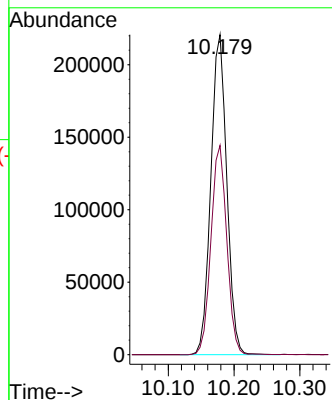
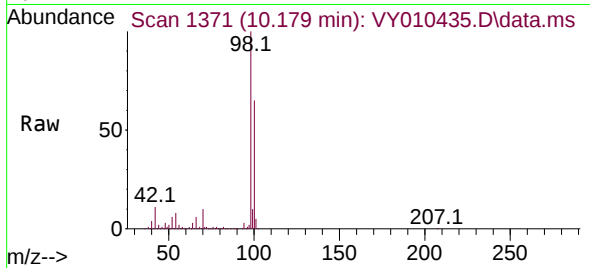




#50  
Toluene-d8  
Concen: 51.377 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY010435.D  
Acq: 09 Sep 2022 22:03

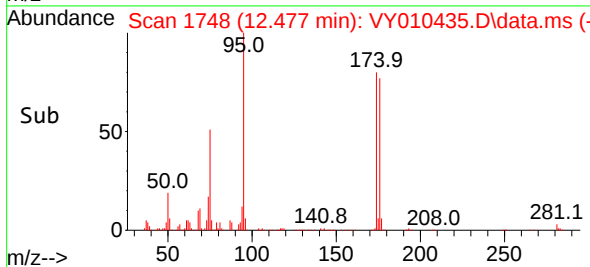
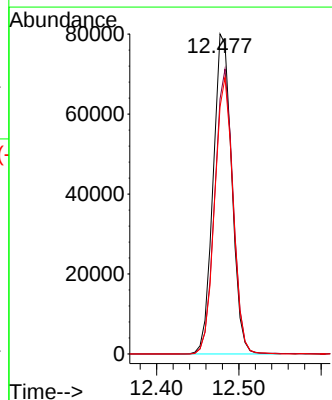
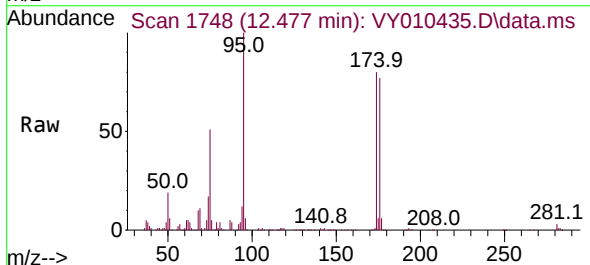
Instrument :  
MSVOA\_Y  
ClientSampleId :  
600535069

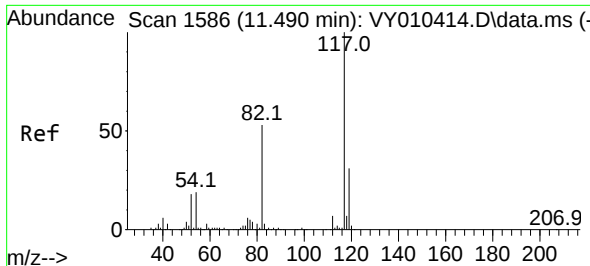
Tgt Ion: 98 Resp: 372709  
Ion Ratio Lower Upper  
98 100  
100 65.0 50.2 75.2



#62  
4-Bromofluorobenzene  
Concen: 42.797 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.000 min  
Lab File: VY010435.D  
Acq: 09 Sep 2022 22:03

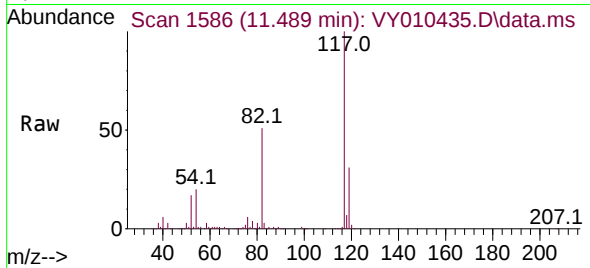
Tgt Ion: 95 Resp: 125610  
Ion Ratio Lower Upper  
95 100  
174 87.8 0.0 177.0  
176 85.5 0.0 175.8



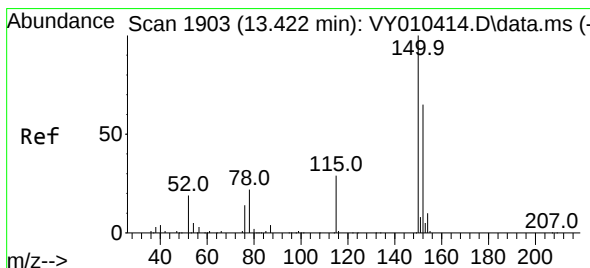
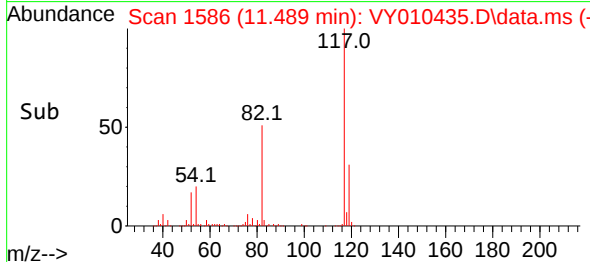
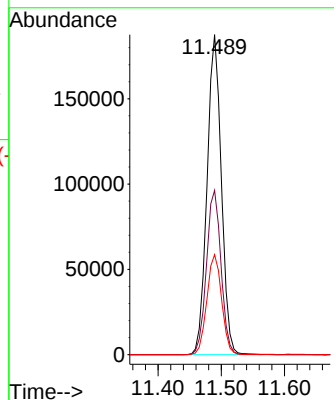


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 11  
Delta R.T. -0.001 min  
Lab File: VY010435.D  
Acq: 09 Sep 2022 22:03

Instrument :  
MSVOA\_Y  
ClientSampleId :  
600535069

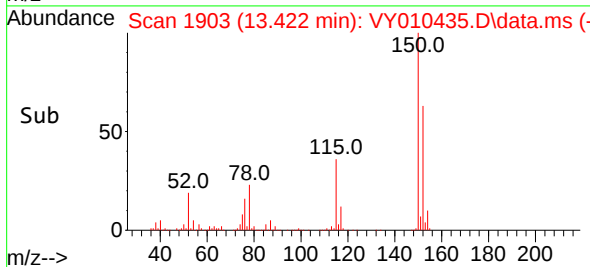
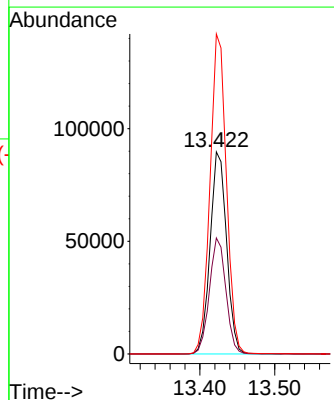
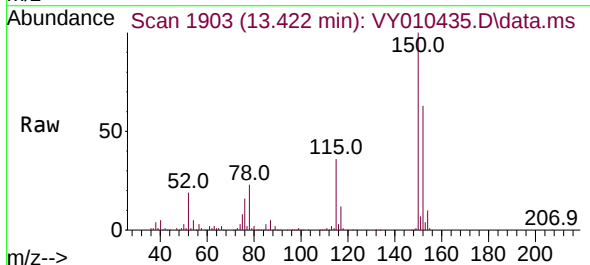


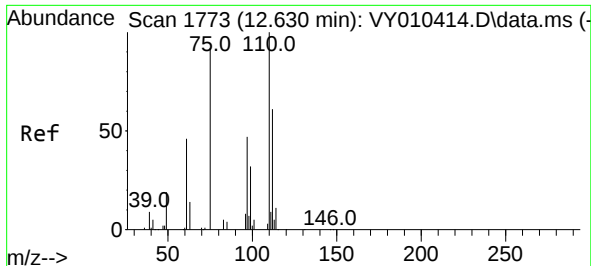
Tgt Ion:117 Resp: 295692  
Ion Ratio Lower Upper  
117 100  
82 51.3 43.0 64.4  
119 31.2 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. -0.000 min  
Lab File: VY010435.D  
Acq: 09 Sep 2022 22:03

Tgt Ion:152 Resp: 137507  
Ion Ratio Lower Upper  
152 100  
115 57.3 28.2 84.7  
150 157.4 0.0 347.6

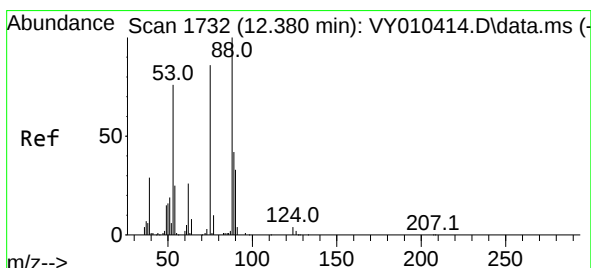
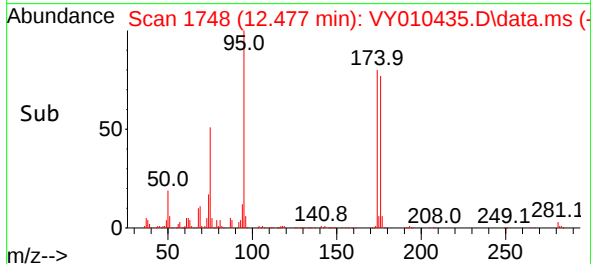
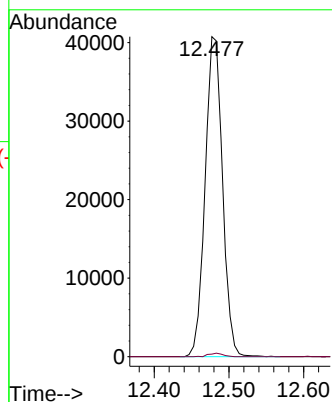
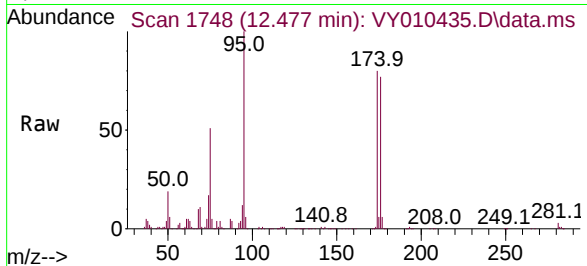




#76  
1,2,3-Trichloropropane  
Concen: 43.377 ug/l  
RT: 12.477 min Scan# 1773  
Delta R.T. -0.153 min  
Lab File: VY010435.D  
Acq: 09 Sep 2022 22:03

Instrument :  
MSVOA\_Y  
ClientSampleId :  
600535069

Tgt Ion: 75 Resp: 65830  
Ion Ratio Lower Upper  
75 100  
77 0.9 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 96.313 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.097 min  
Lab File: VY010435.D  
Acq: 09 Sep 2022 22:03

Tgt Ion: 75 Resp: 65830  
Ion Ratio Lower Upper  
75 100  
53 0.0 85.3 127.9#  
89 0.0 37.0 55.4#

