

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
 Data File : VY023130.D
 Acq On : 15 Aug 2025 17:08
 Operator : SY/MD
 Sample : Q2844-06
 Misc : 3.00g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MOO-25-0223

Quant Time: Aug 18 02:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

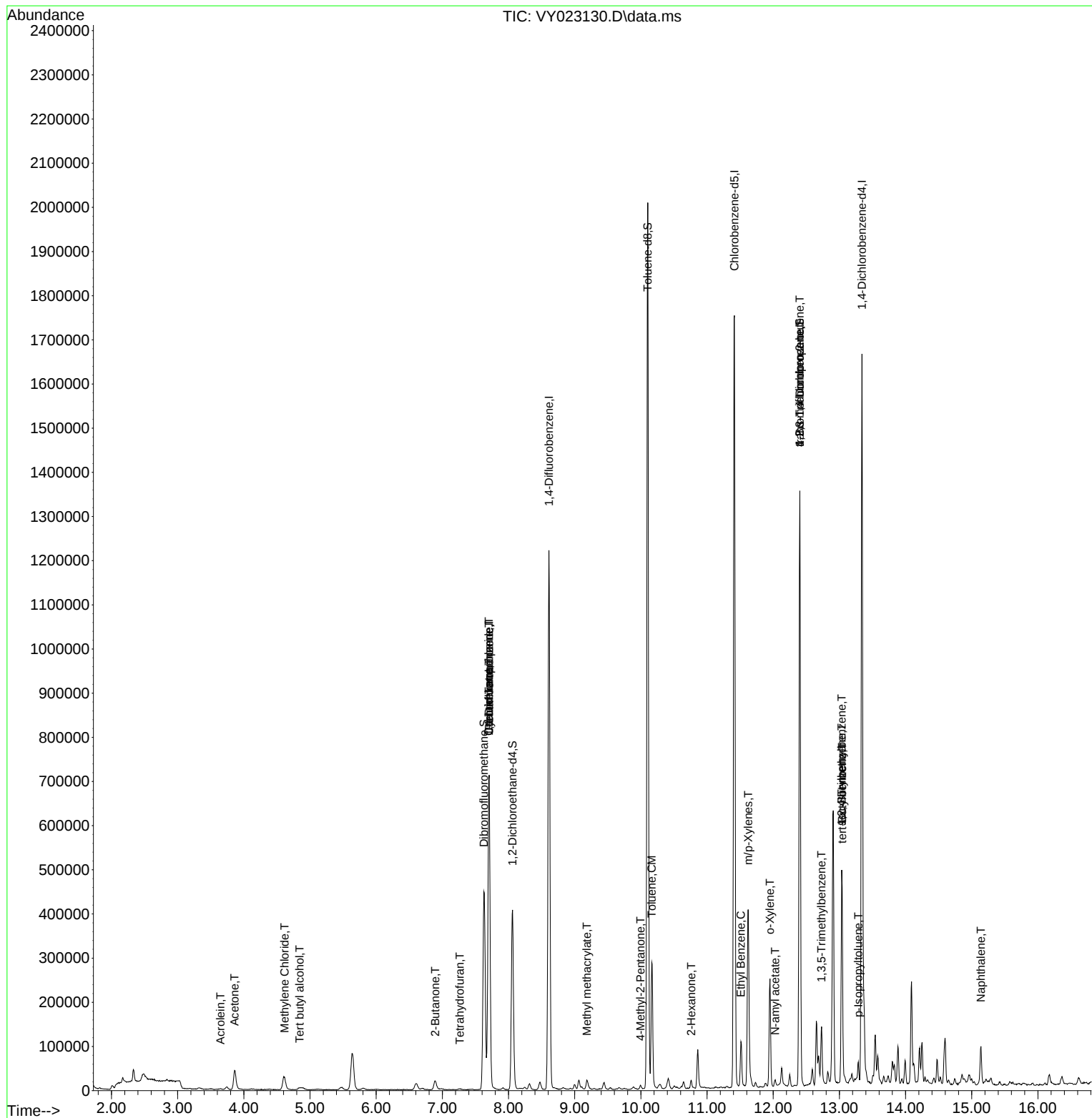
Internal Standards						
1) Pentafluorobenzene	7.707	168	554301	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	1041741	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	943599	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	390457	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	314581	59.547	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 119.100%			
35) Dibromofluoromethane	7.628	113	325848	52.274	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.540%			
50) Toluene-d8	10.103	98	1262039	51.826	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.660%			
62) 4-Bromofluorobenzene	12.401	95	393560	50.254	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.500%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	4.842	59	9053	25.010	ug/l #	75
13) Acrolein	3.647	56	1790	3.377	ug/l #	68
16) Acetone	3.860	43	74248	64.873	ug/l	96
20) Methylene Chloride	4.616	84	22179	1.069	ug/l	99
25) 2-Butanone	6.890	43	28459	18.283	ug/l	94
29) Tetrahydrofuran	7.262	42	1126	1.167	ug/l #	80
31) Cyclohexane	7.701	56	12164	1.236	ug/l #	13
36) 1,1-Dichloropropene	7.701	75	43339	4.678	ug/l #	50
38) Carbon Tetrachloride	7.701	117	54413	5.408	ug/l #	18
48) Methyl methacrylate	9.182	41	5624	1.494	ug/l #	42
51) 4-Methyl-2-Pentanone	9.993	43	5318	1.311	ug/l	96
52) Toluene	10.164	92	121115	6.679	ug/l	99
59) 2-Hexanone	10.761	43	10982	3.975	ug/l	93
67) Ethyl Benzene	11.511	91	68979	1.969	ug/l	98
68) m/p-Xylenes	11.621	106	120332	8.796	ug/l	100
69) o-Xylene	11.950	106	62840	4.905	ug/l	96
74) N-amyl acetate	12.030	43	8961	1.533	ug/l #	47
76) 1,2,3-Trichloropropane	12.401	75	212693	56.442	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.731	105	47959	2.153	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.401	75	212693	136.629	ug/l #	14
83) tert-Butylbenzene	13.042	119	31504	1.566	ug/l #	64
84) 1,2,4-Trimethylbenzene	13.035	105	250773	11.311	ug/l	100
85) sec-Butylbenzene	13.035	105	250773	8.487	ug/l #	56
86) p-Isopropyltoluene	13.285	119	25103	1.023	ug/l	95
95) Naphthalene	15.139	128	67101	5.852	ug/l	99

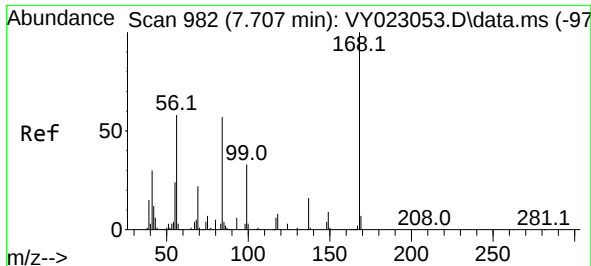
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023130.D
Acq On : 15 Aug 2025 17:08
Operator : SY/MD
Sample : Q2844-06
Misc : 3.00g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0223

Quant Time: Aug 18 02:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

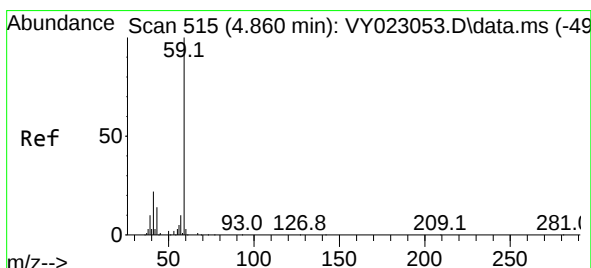
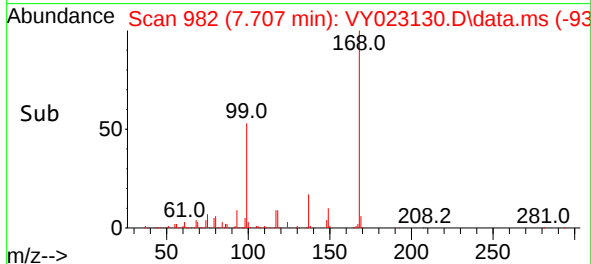
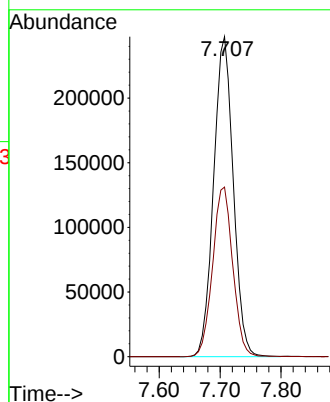
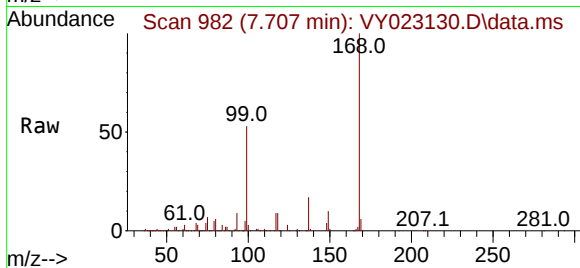




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY023130.D
Acq: 15 Aug 2025 17:08

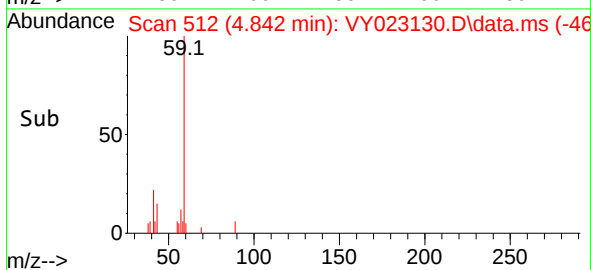
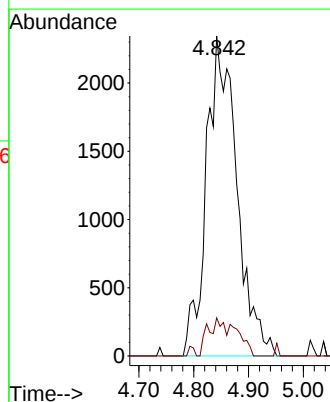
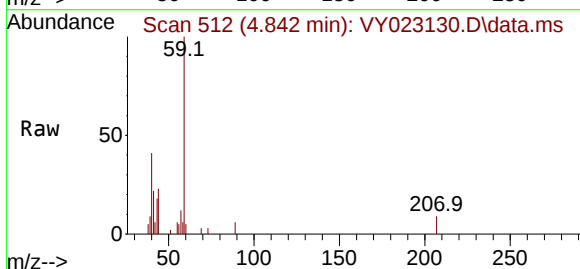
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0223

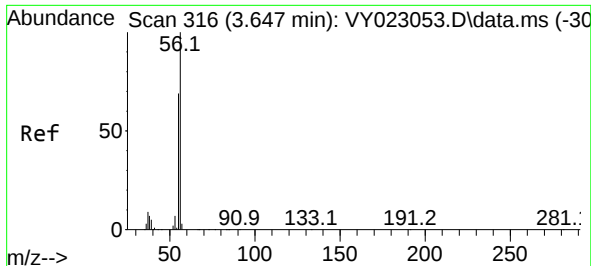
Tgt Ion:168 Resp: 554301
Ion Ratio Lower Upper
168 100
99 53.0 42.8 64.2



#11
Tert butyl alcohol
Concen: 25.010 ug/l
RT: 4.842 min Scan# 512
Delta R.T. -0.018 min
Lab File: VY023130.D
Acq: 15 Aug 2025 17:08

Tgt Ion: 59 Resp: 9053
Ion Ratio Lower Upper
59 100
57 1.5 8.6 13.0#





#13

Acrolein

Concen: 3.377 ug/l

RT: 3.647 min Scan# 316

Delta R.T. 0.000 min

Lab File: VY023130.D

Acq: 15 Aug 2025 17:08

Instrument :

MSVOA_Y

ClientSampleId :

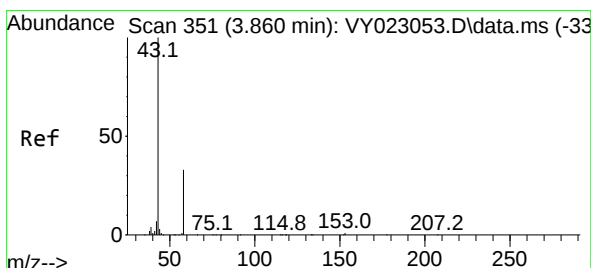
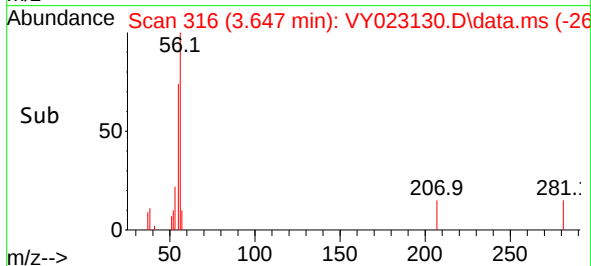
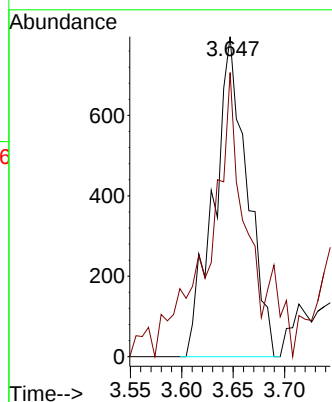
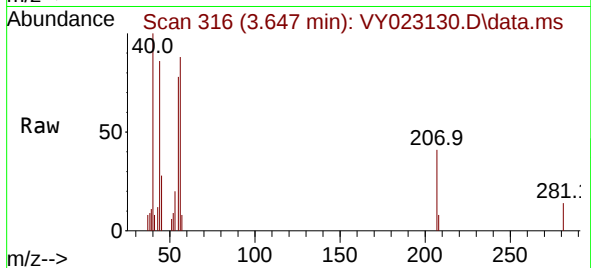
MOO-25-0223

Tgt Ion: 56 Resp: 1790

Ion Ratio Lower Upper

56 100

55 95.3 55.2 82.8#



#16

Acetone

Concen: 64.873 ug/l

RT: 3.860 min Scan# 351

Delta R.T. 0.000 min

Lab File: VY023130.D

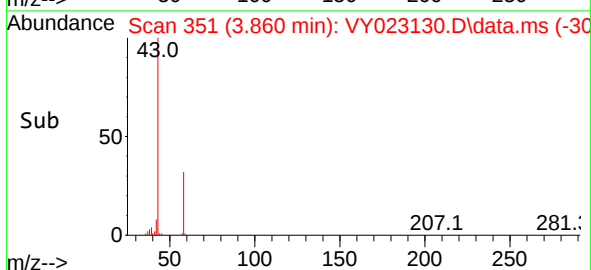
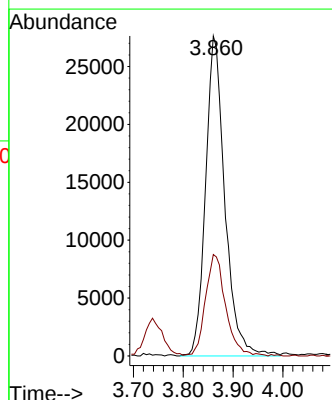
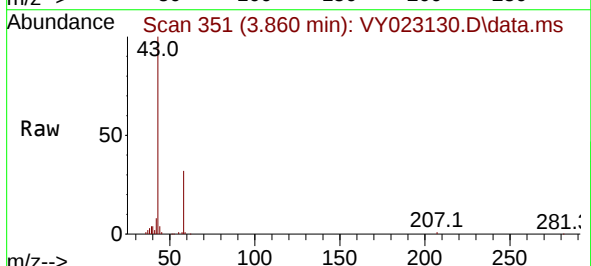
Acq: 15 Aug 2025 17:08

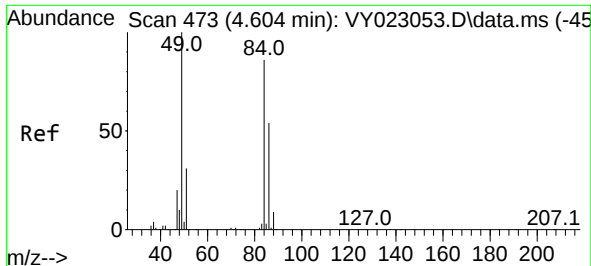
Tgt Ion: 43 Resp: 74248

Ion Ratio Lower Upper

43 100

58 31.5 27.1 40.7

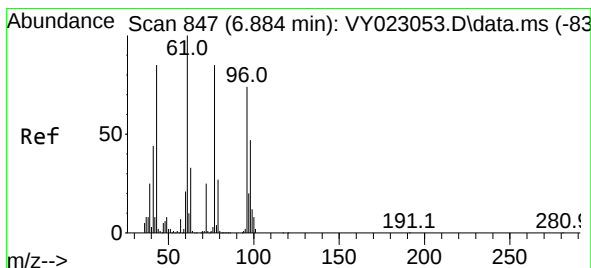
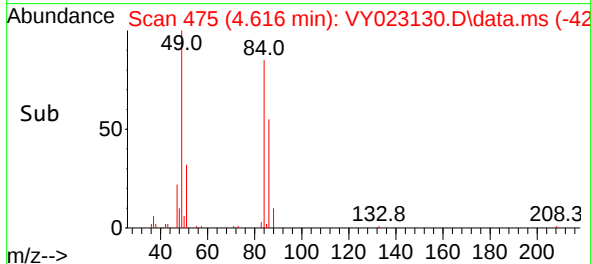
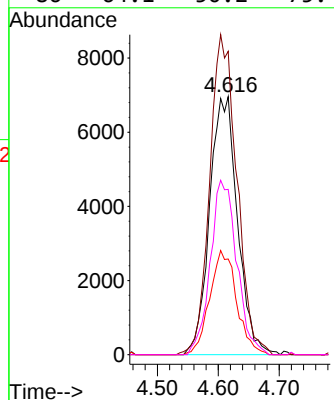
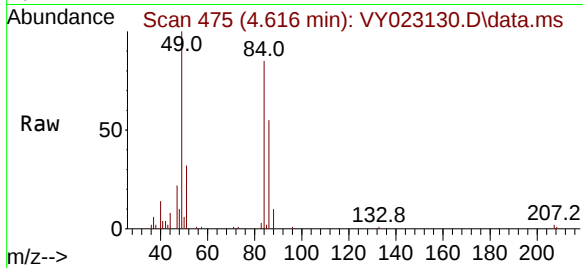




#20
Methylene Chloride
Concen: 1.069 ug/l
RT: 4.616 min Scan# 41
Delta R.T. 0.012 min
Lab File: VY023130.D
Acq: 15 Aug 2025 17:08

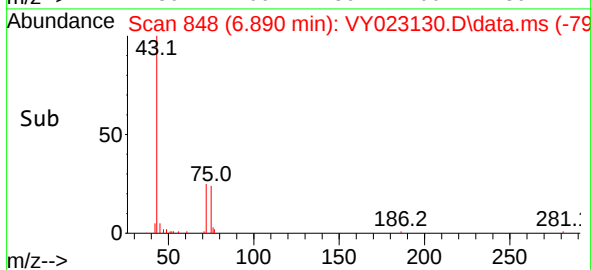
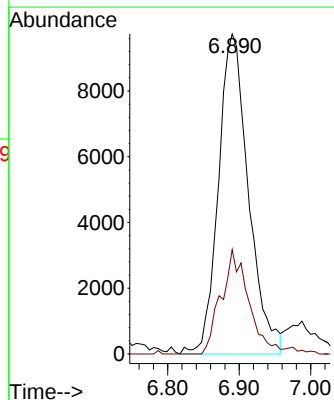
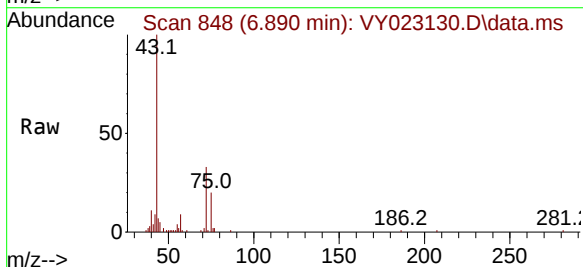
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0223

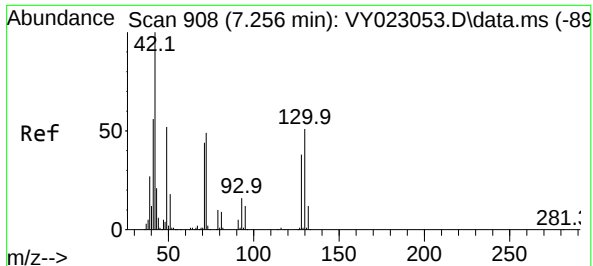
Tgt Ion:	84	Resp:	22179
Ion	Ratio	Lower	Upper
84	100		
49	117.6	93.0	139.6
51	37.1	29.0	43.4
86	64.1	50.2	75.4



#25
2-Butanone
Concen: 18.283 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023130.D
Acq: 15 Aug 2025 17:08

Tgt Ion:	43	Resp:	28459
Ion	Ratio	Lower	Upper
43	100		
72	32.6	23.5	35.3





#29

Tetrahydrofuran

Concen: 1.167 ug/l

RT: 7.262 min Scan# 908

Delta R.T. 0.006 min

Lab File: VY023130.D

Acq: 15 Aug 2025 17:08

Instrument :

MSVOA_Y

ClientSampleId :

MOO-25-0223

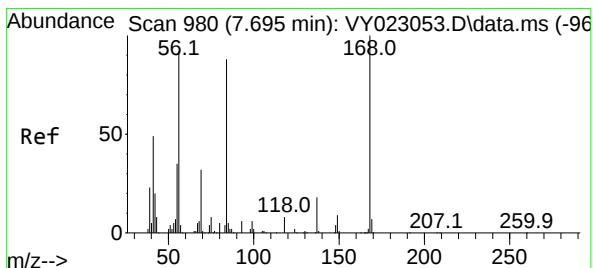
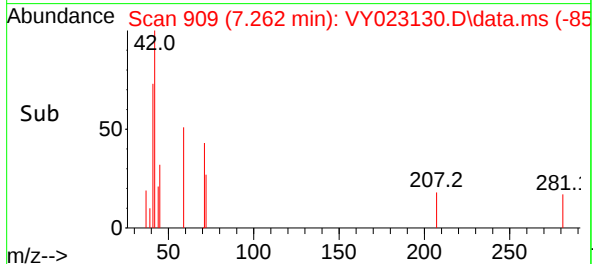
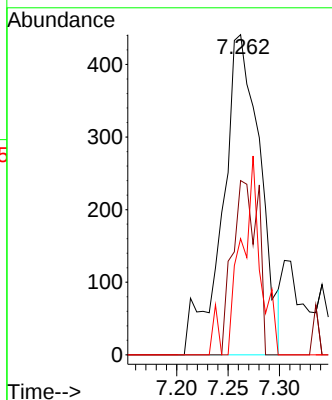
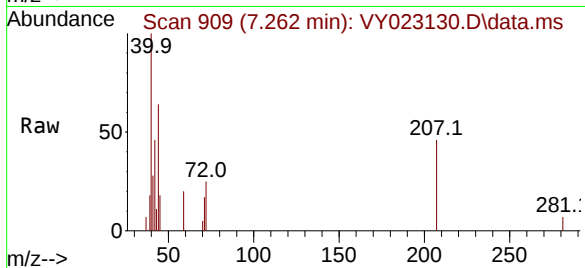
Tgt Ion: 42 Resp: 1126

Ion Ratio Lower Upper

42 100

72 36.8 39.4 59.2#

71 31.0 36.5 54.7#



#31

Cyclohexane

Concen: 1.236 ug/l

RT: 7.701 min Scan# 981

Delta R.T. 0.006 min

Lab File: VY023130.D

Acq: 15 Aug 2025 17:08

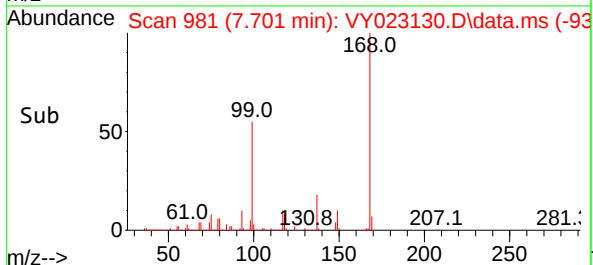
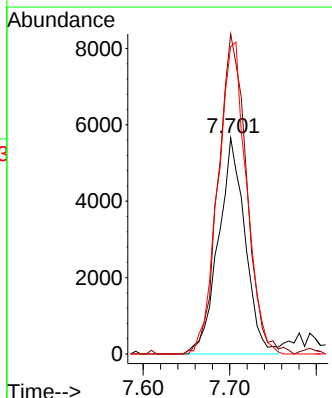
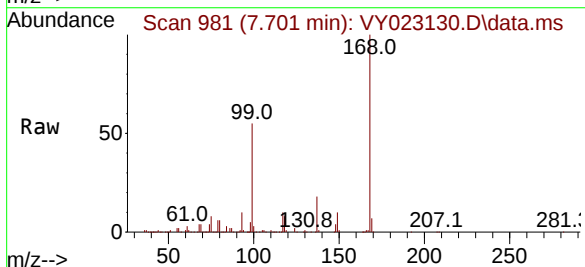
Tgt Ion: 56 Resp: 12164

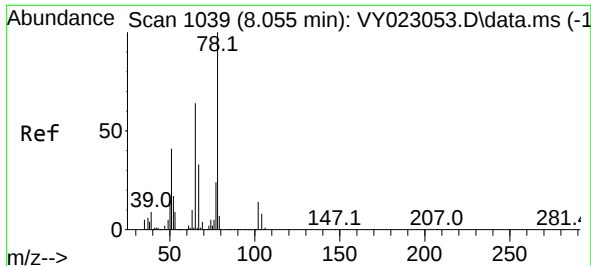
Ion Ratio Lower Upper

56 100

69 148.0 28.2 42.2#

84 142.2 76.6 114.8#





#33

1,2-Dichloroethane-d4

Concen: 59.547 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VY023130.D

Acq: 15 Aug 2025 17:08

Instrument :

MSVOA_Y

ClientSampleId :

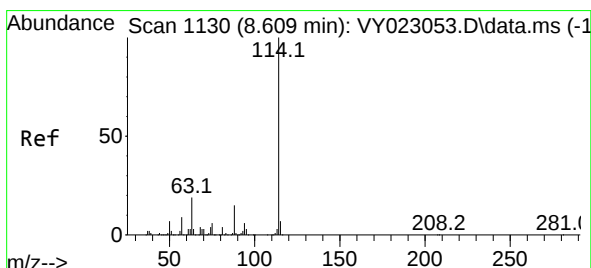
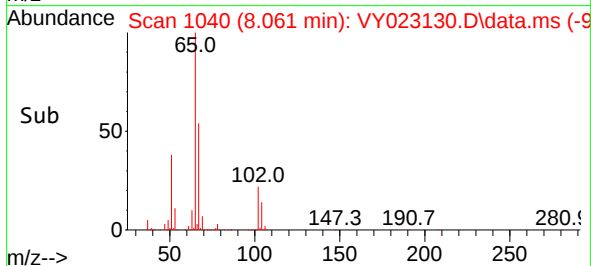
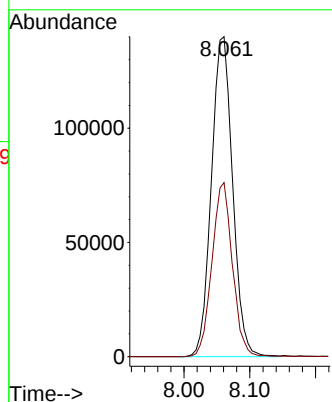
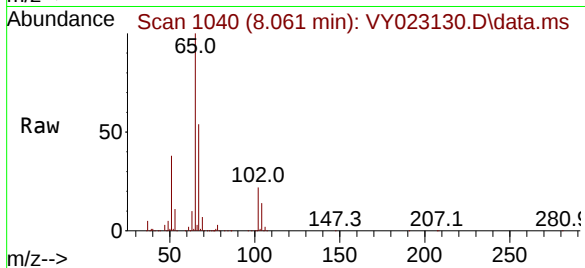
MOO-25-0223

Tgt Ion: 65 Resp: 314581

Ion Ratio Lower Upper

65 100

67 52.6 0.0 106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VY023130.D

Acq: 15 Aug 2025 17:08

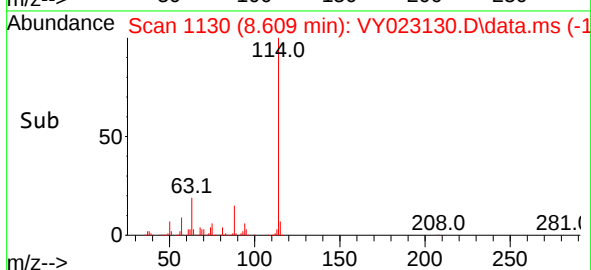
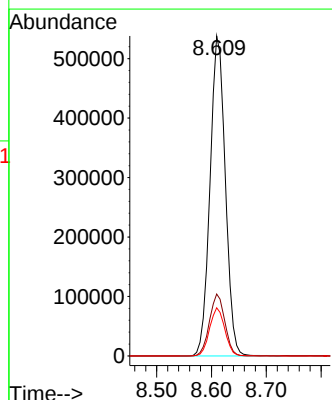
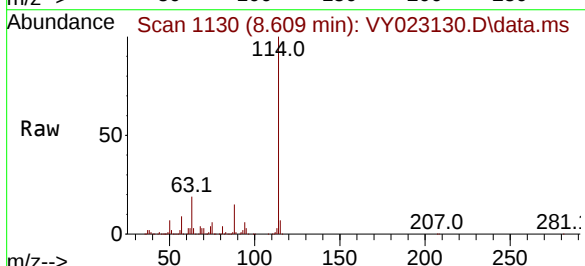
Tgt Ion:114 Resp: 1041741

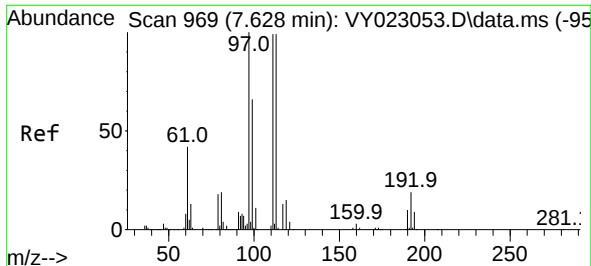
Ion Ratio Lower Upper

114 100

63 19.4 0.0 38.4

88 15.1 0.0 30.0





#35

Dibromofluoromethane

Concen: 52.274 ug/l

RT: 7.628 min Scan# 9

Delta R.T. 0.000 min

Lab File: VY023130.D

Acq: 15 Aug 2025 17:08

Instrument :

MSVOA_Y

ClientSampleId :

MOO-25-0223

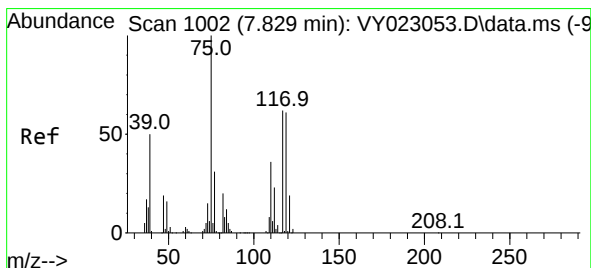
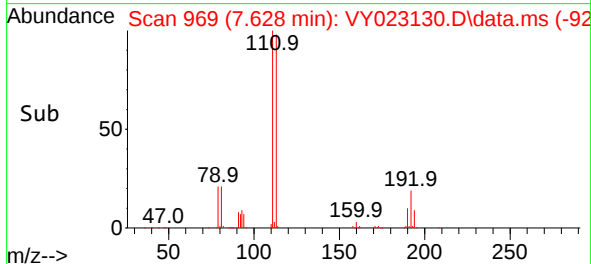
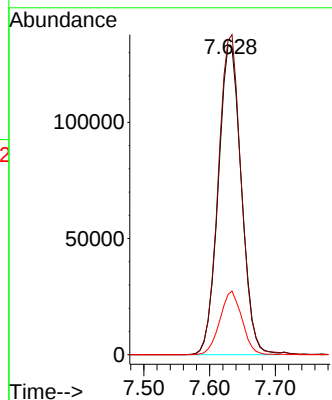
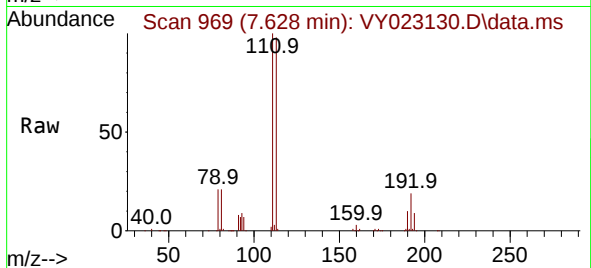
Tgt Ion:113 Resp: 325848

Ion Ratio Lower Upper

113 100

111 102.9 81.1 121.7

192 19.7 16.2 24.4



#36

1,1-Dichloropropene

Concen: 4.678 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.128 min

Lab File: VY023130.D

Acq: 15 Aug 2025 17:08

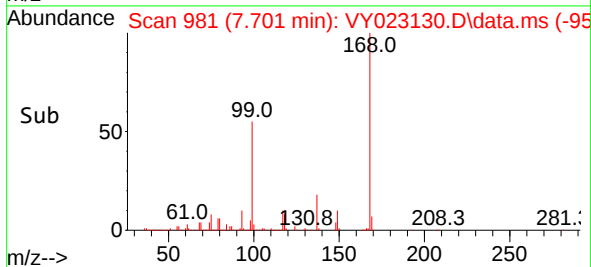
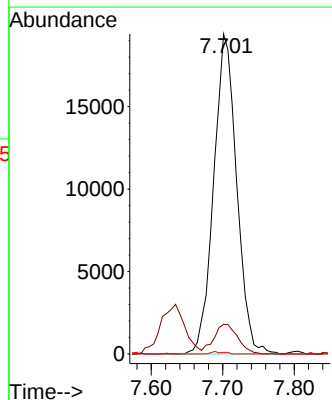
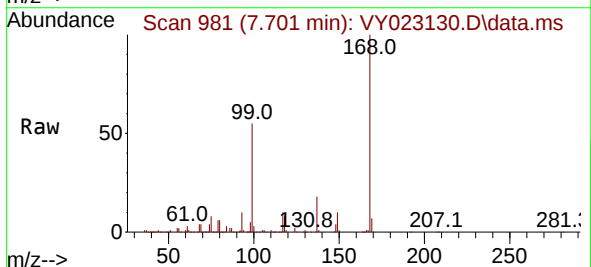
Tgt Ion: 75 Resp: 43339

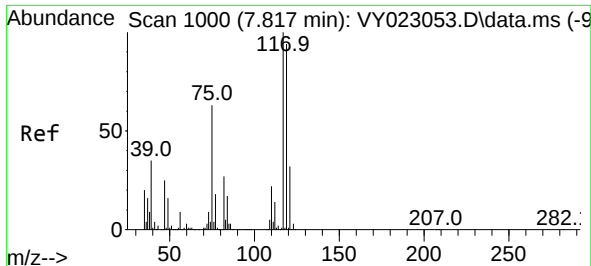
Ion Ratio Lower Upper

75 100

110 9.6 18.1 54.4#

77 0.4 24.6 37.0#

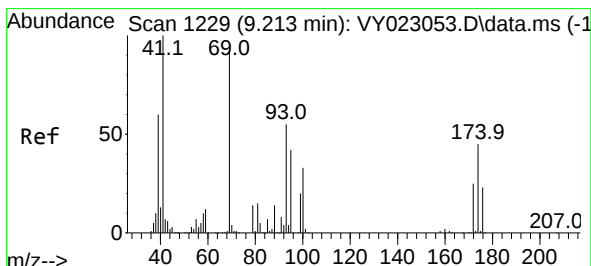
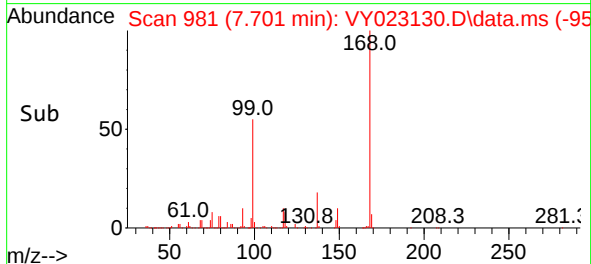
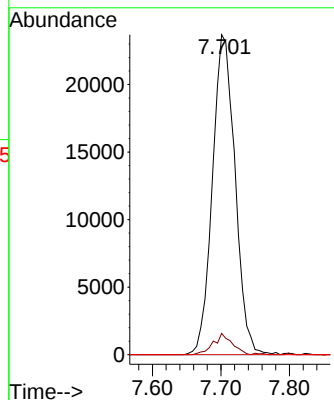
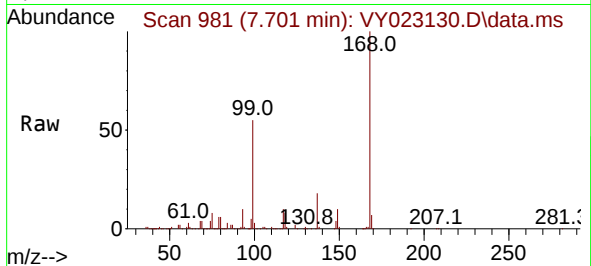




#38
Carbon Tetrachloride
Concen: 5.408 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY023130.D
Acq: 15 Aug 2025 17:08

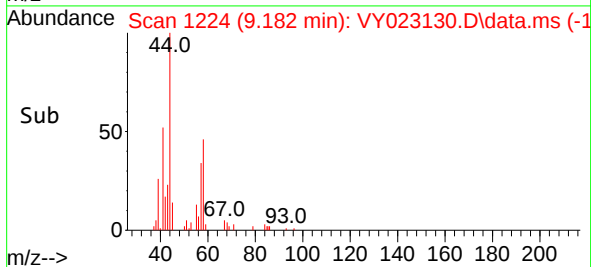
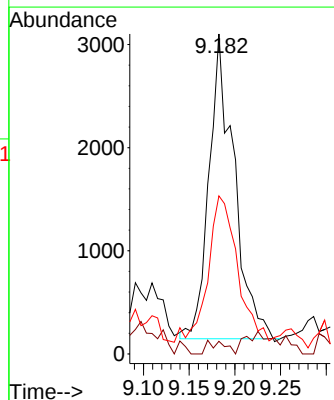
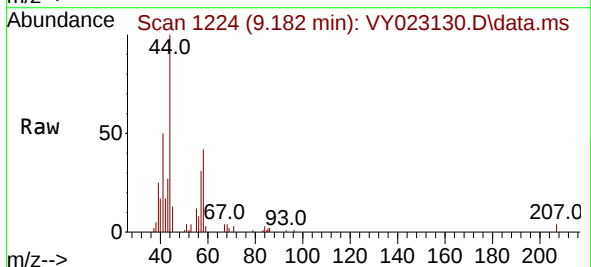
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0223

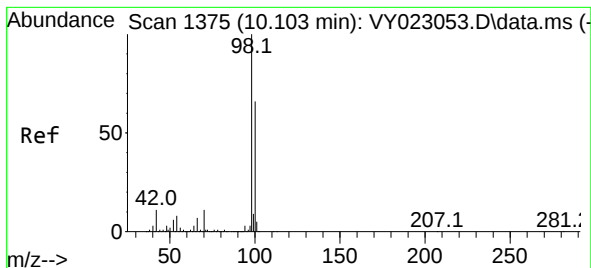
Tgt Ion: 117 Resp: 54413
Ion Ratio Lower Upper
117 100
119 6.6 75.6 113.4#
121 0.0 25.8 38.8#



#48
Methyl methacrylate
Concen: 1.494 ug/l
RT: 9.182 min Scan# 1224
Delta R.T. -0.030 min
Lab File: VY023130.D
Acq: 15 Aug 2025 17:08

Tgt Ion: 41 Resp: 5624
Ion Ratio Lower Upper
41 100
69 3.0 73.2 109.8#
39 56.6 47.0 70.4

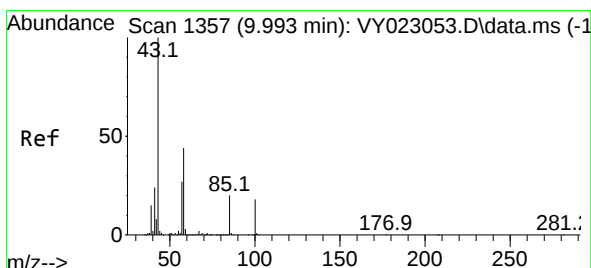
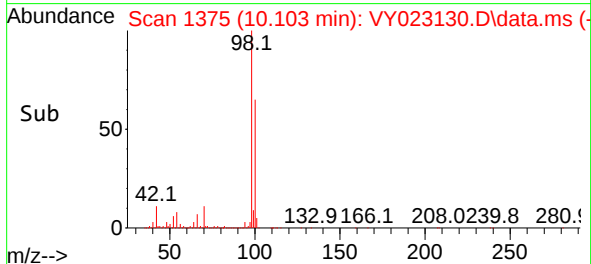
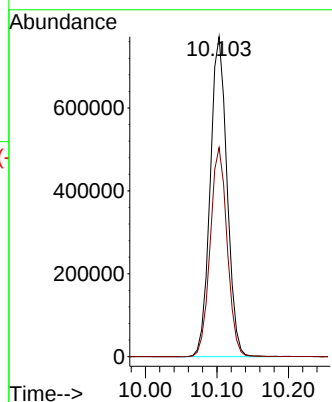
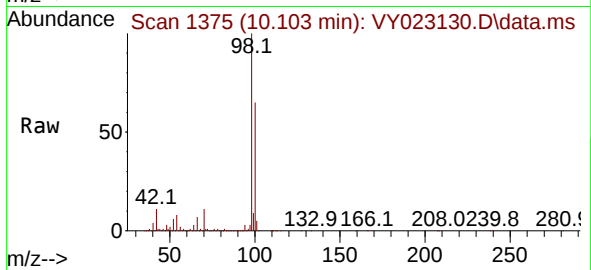




#50
Toluene-d8
Concen: 51.826 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023130.D
Acq: 15 Aug 2025 17:08

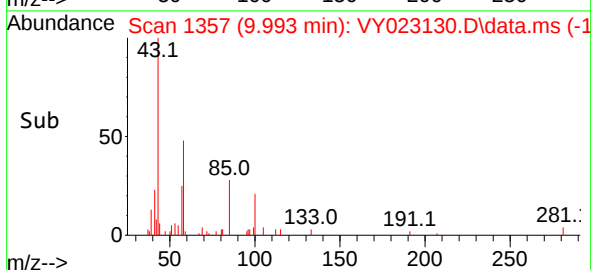
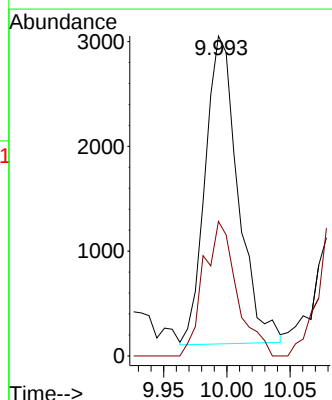
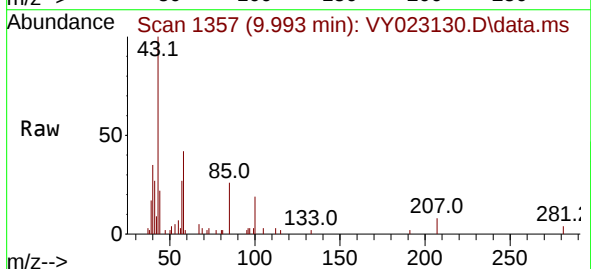
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0223

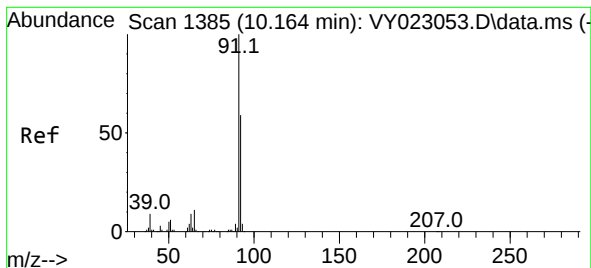
Tgt Ion: 98 Resp: 1262039
Ion Ratio Lower Upper
98 100
100 65.9 52.3 78.5



#51
4-Methyl-2-Pentanone
Concen: 1.311 ug/l
RT: 9.993 min Scan# 1357
Delta R.T. 0.000 min
Lab File: VY023130.D
Acq: 15 Aug 2025 17:08

Tgt Ion: 43 Resp: 5318
Ion Ratio Lower Upper
43 100
58 44.1 33.5 50.3





#52

Toluene

Concen: 6.679 ug/l

RT: 10.164 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY023130.D

Acq: 15 Aug 2025 17:08

Instrument :

MSVOA_Y

ClientSampleId :

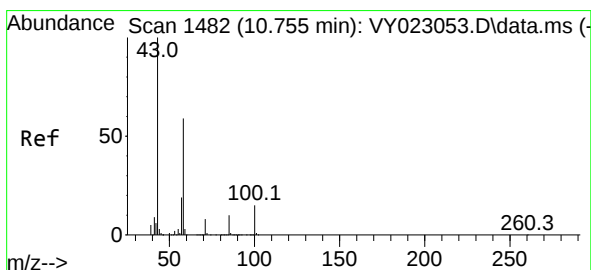
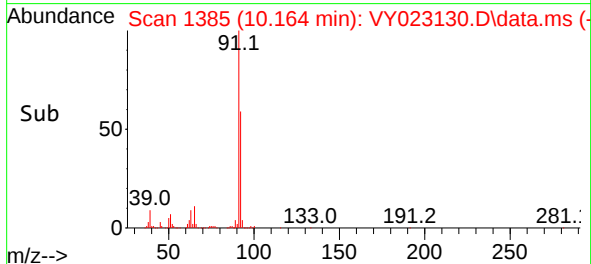
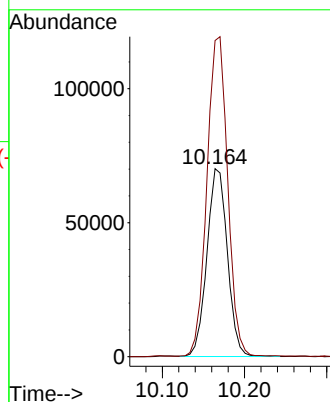
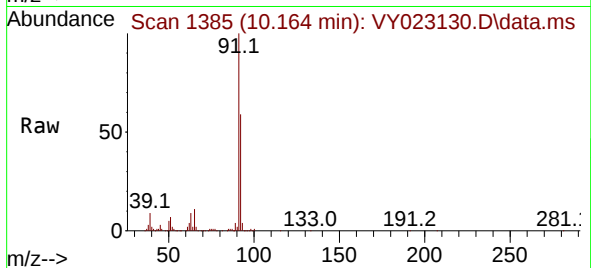
MOO-25-0223

Tgt Ion: 92 Resp: 121115

Ion Ratio Lower Upper

92 100

91 172.2 136.4 204.6



#59

2-Hexanone

Concen: 3.975 ug/l

RT: 10.761 min Scan# 1483

Delta R.T. 0.006 min

Lab File: VY023130.D

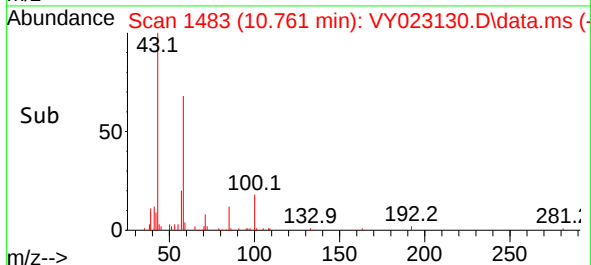
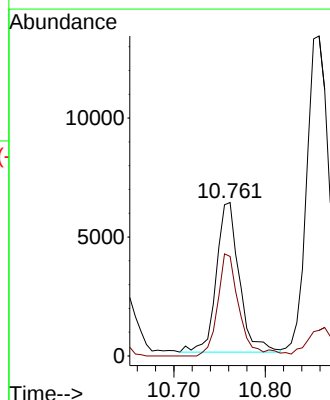
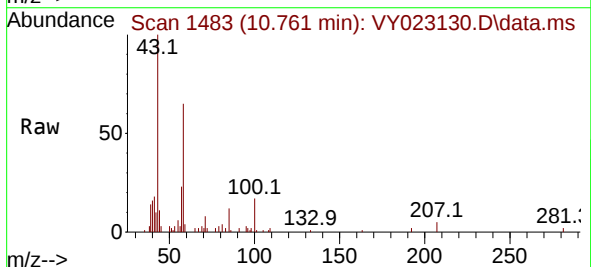
Acq: 15 Aug 2025 17:08

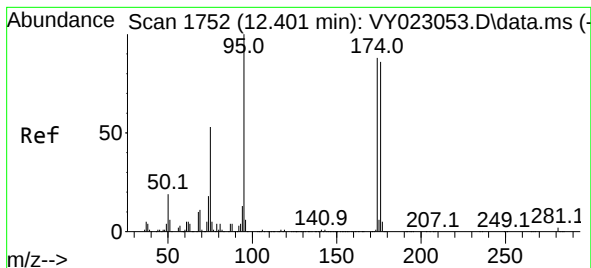
Tgt Ion: 43 Resp: 10982

Ion Ratio Lower Upper

43 100

58 64.3 29.5 88.5





#62

4-Bromofluorobenzene

Concen: 50.254 ug/l

RT: 12.401 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY023130.D

Acq: 15 Aug 2025 17:08

Instrument :

MSVOA_Y

ClientSampleId :

MOO-25-0223

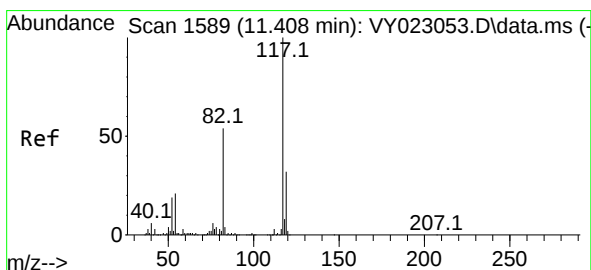
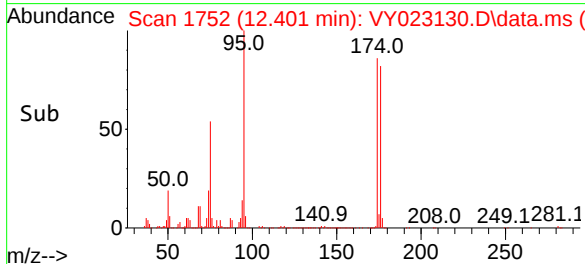
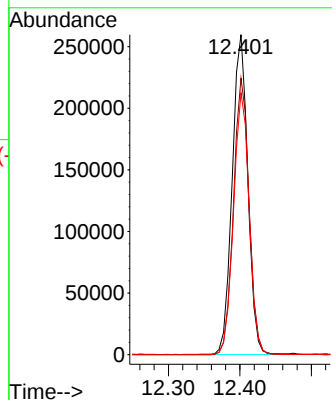
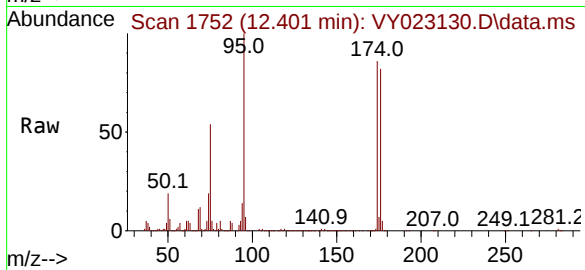
Tgt Ion: 95 Resp: 393560

Ion Ratio Lower Upper

95 100

174 86.4 0.0 171.6

176 82.1 0.0 167.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. 0.006 min

Lab File: VY023130.D

Acq: 15 Aug 2025 17:08

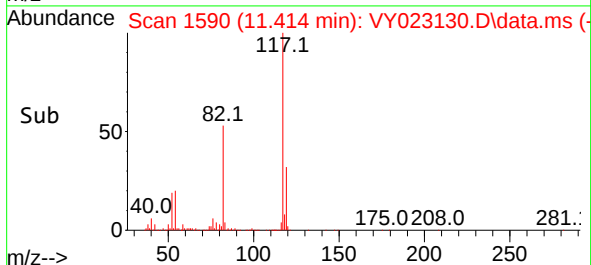
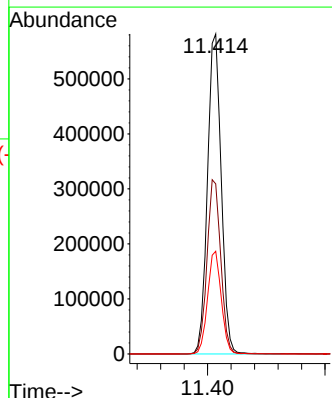
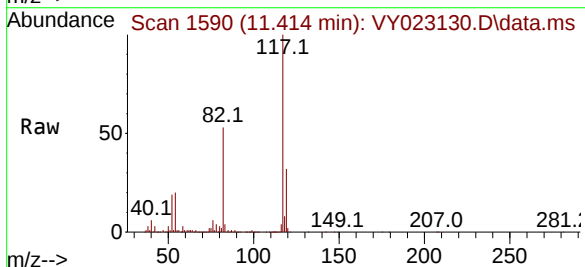
Tgt Ion: 117 Resp: 943599

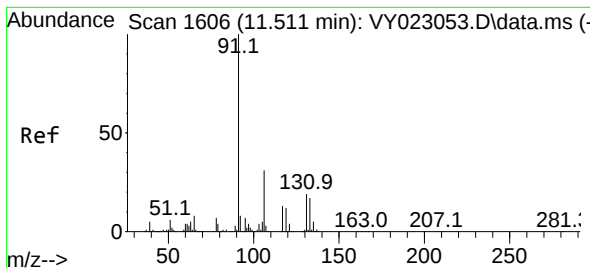
Ion Ratio Lower Upper

117 100

82 53.2 43.4 65.0

119 32.1 25.6 38.4





#67

Ethyl Benzene

Concen: 1.969 ug/l

RT: 11.511 min Scan# 1606

Delta R.T. 0.000 min

Lab File: VY023130.D

Acq: 15 Aug 2025 17:08

Instrument :

MSVOA_Y

ClientSampleId :

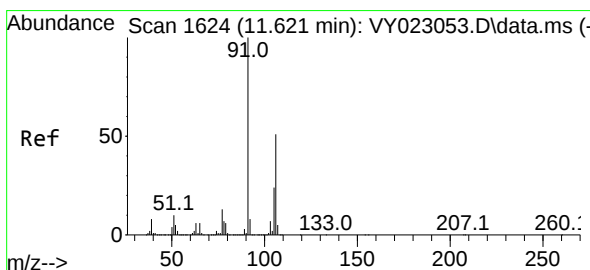
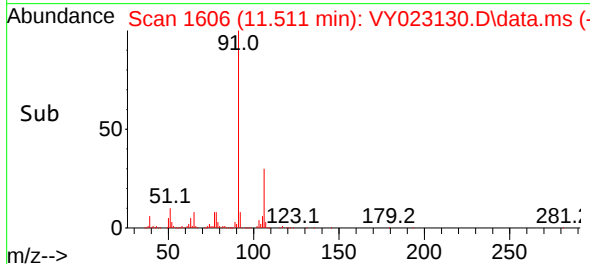
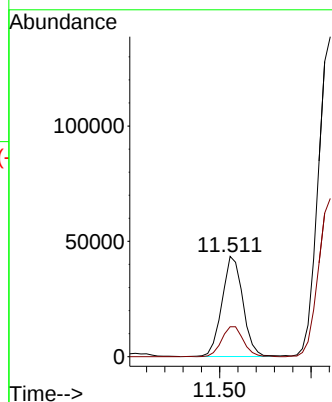
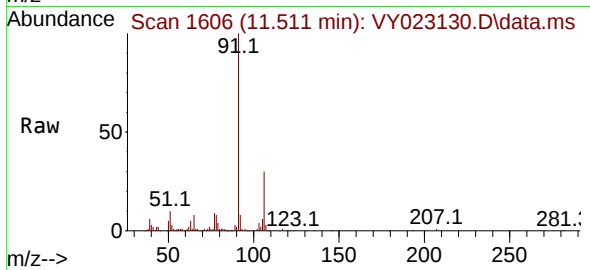
MOO-25-0223

Tgt Ion: 91 Resp: 68979

Ion Ratio Lower Upper

91 100

106 30.0 25.0 37.4



#68

m/p-Xylenes

Concen: 8.796 ug/l

RT: 11.621 min Scan# 1624

Delta R.T. 0.000 min

Lab File: VY023130.D

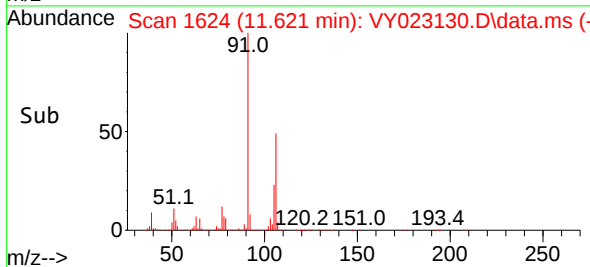
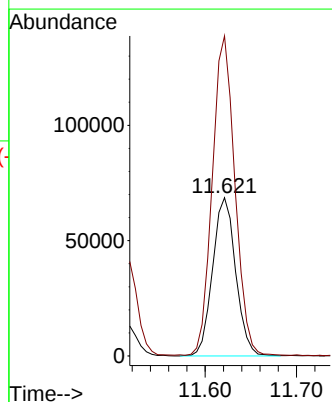
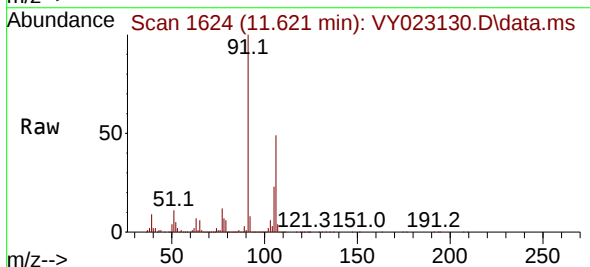
Acq: 15 Aug 2025 17:08

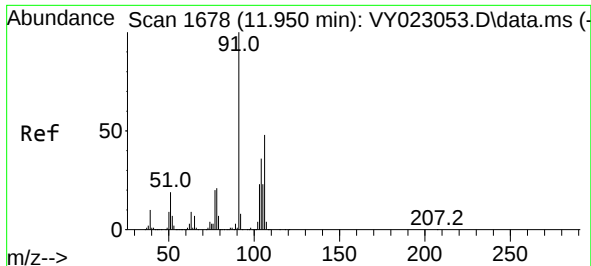
Tgt Ion:106 Resp: 120332

Ion Ratio Lower Upper

106 100

91 198.2 158.6 238.0

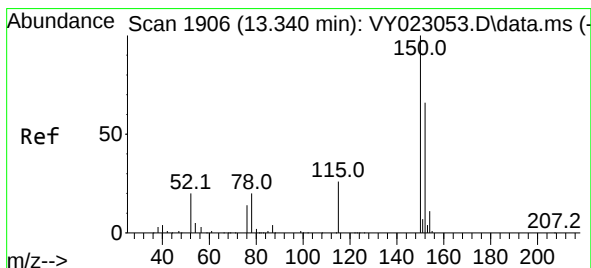
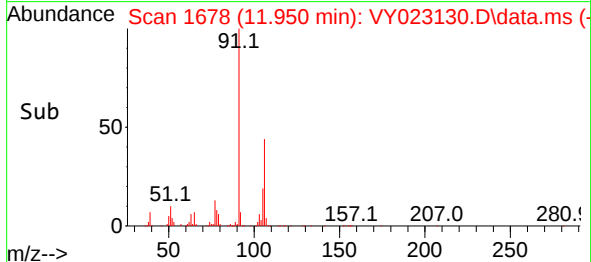
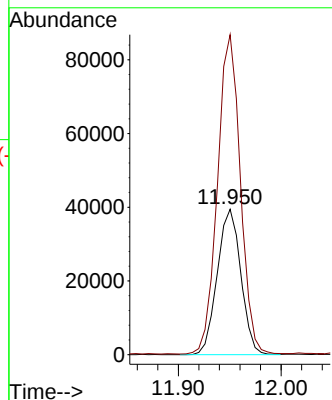
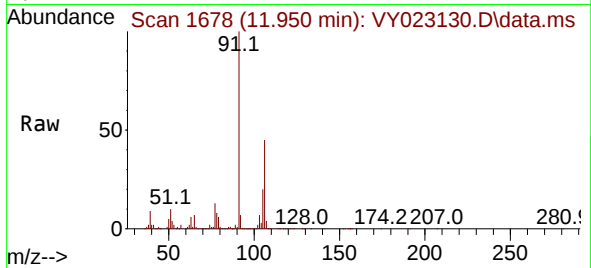




#69
o-Xylene
Concen: 4.905 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. 0.000 min
Lab File: VY023130.D
Acq: 15 Aug 2025 17:08

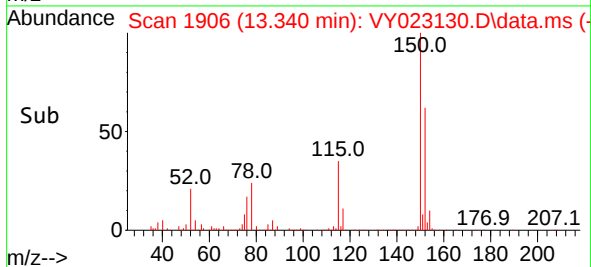
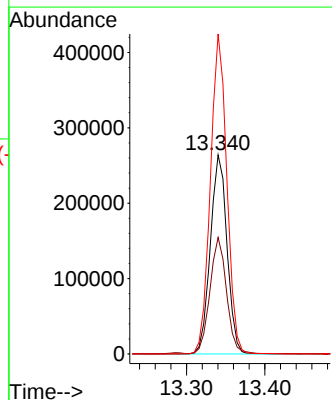
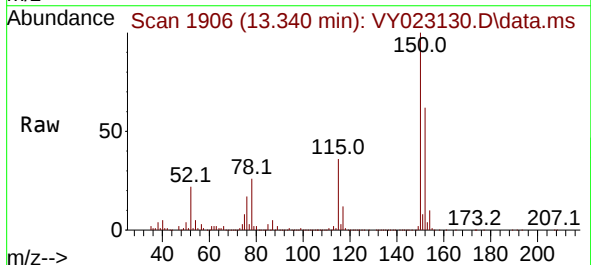
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0223

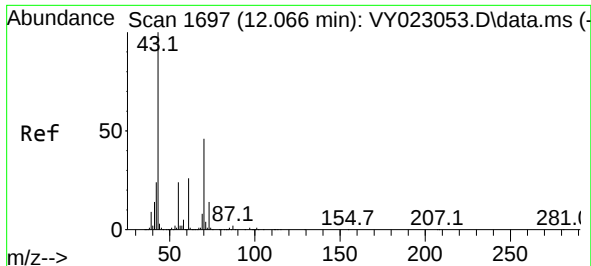
Tgt Ion:106 Resp: 62840
Ion Ratio Lower Upper
106 100
91 212.5 103.2 309.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023130.D
Acq: 15 Aug 2025 17:08

Tgt Ion:152 Resp: 390457
Ion Ratio Lower Upper
152 100
115 58.2 28.2 84.6
150 157.9 0.0 348.0

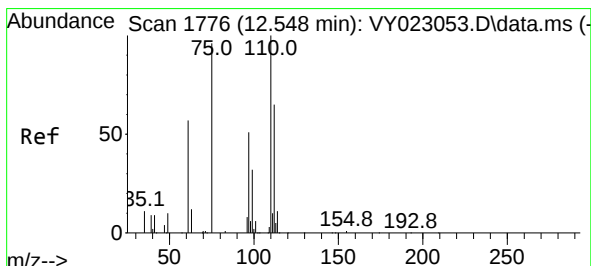
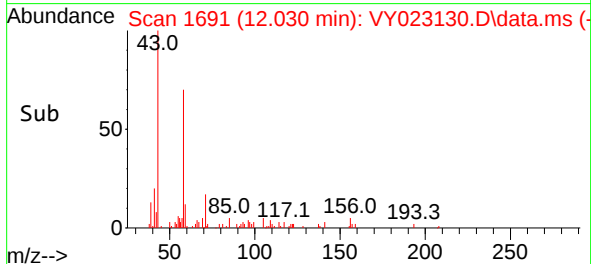
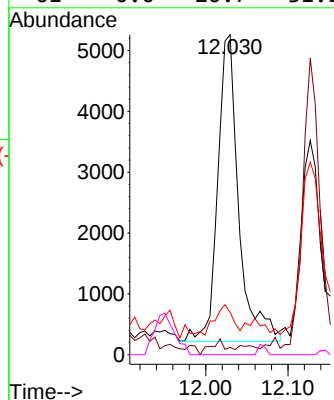
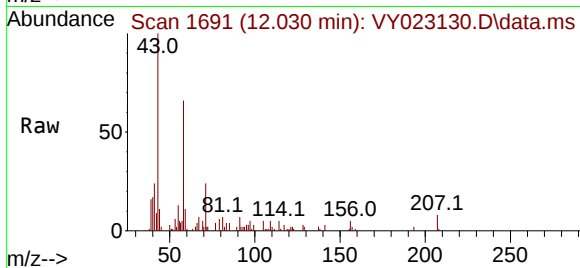




#74
N-amy1 acetate
Concen: 1.533 ug/l
RT: 12.030 min Scan# 1752
Delta R.T. -0.037 min
Lab File: VY023130.D
Acq: 15 Aug 2025 17:08

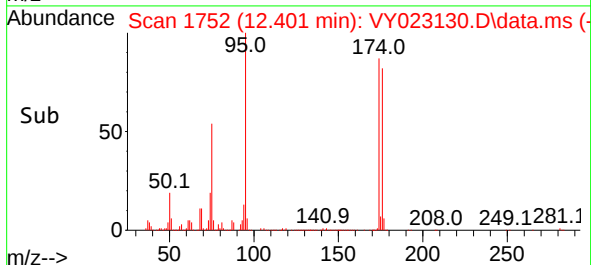
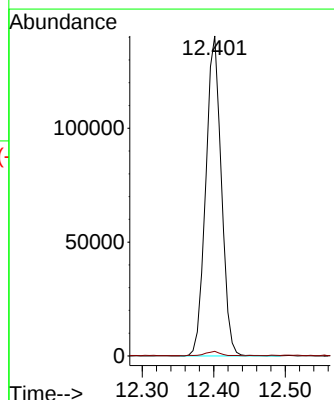
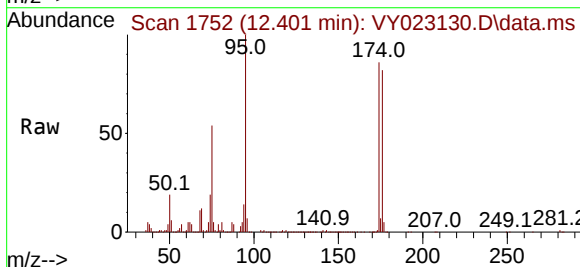
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0223

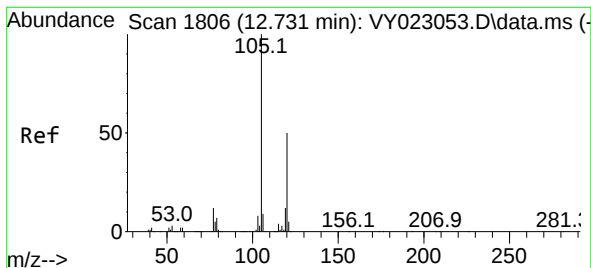
Tgt Ion: 43 Resp: 8961
Ion Ratio Lower Upper
43 100
70 3.9 37.5 56.3#
55 7.5 20.7 31.1#
61 0.0 20.7 31.1#



#76
1,2,3-Trichloropropane
Concen: 56.442 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.146 min
Lab File: VY023130.D
Acq: 15 Aug 2025 17:08

Tgt Ion: 75 Resp: 212693
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 2.153 ug/l

RT: 12.731 min Scan# 1806

Delta R.T. 0.000 min

Lab File: VY023130.D

Acq: 15 Aug 2025 17:08

Instrument :

MSVOA_Y

ClientSampleId :

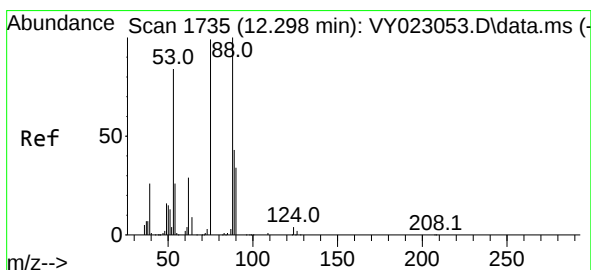
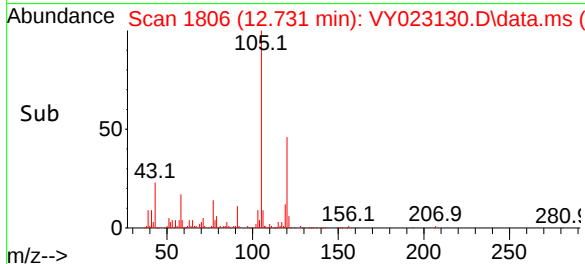
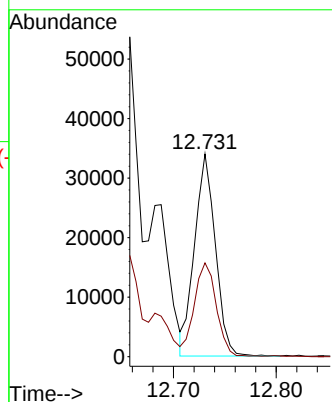
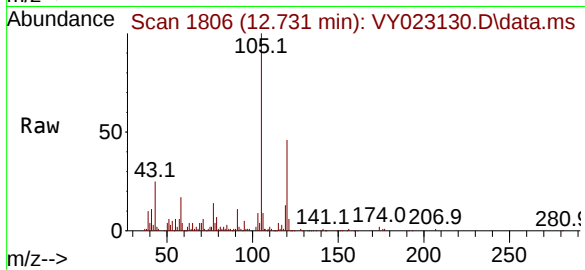
MOO-25-0223

Tgt Ion:105 Resp: 47959

Ion Ratio Lower Upper

105 100

120 48.7 24.8 74.4



#81

trans-1,4-Dichloro-2-butene

Concen: 136.629 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. 0.104 min

Lab File: VY023130.D

Acq: 15 Aug 2025 17:08

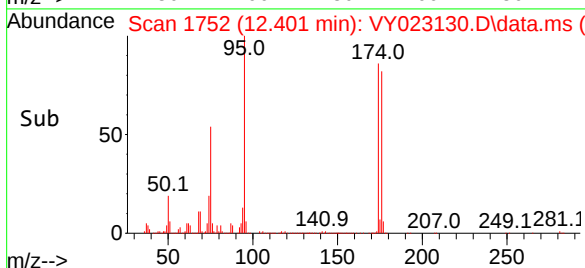
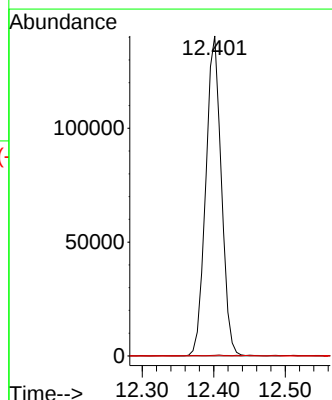
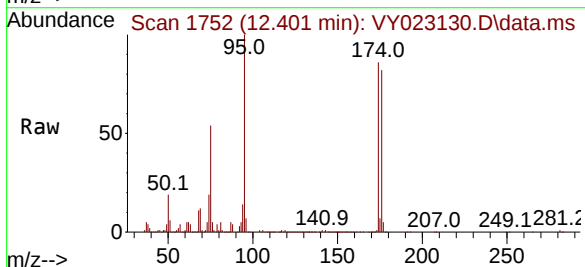
Tgt Ion: 75 Resp: 212693

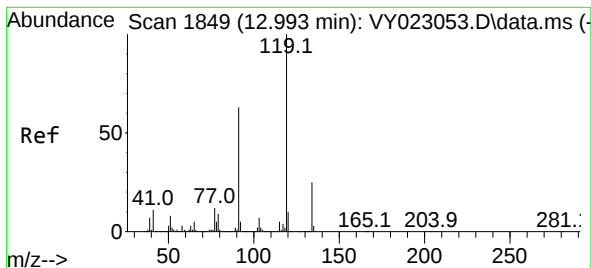
Ion Ratio Lower Upper

75 100

53 0.1 70.8 106.2#

89 0.0 38.1 57.1#





#83

tert-Butylbenzene

Concen: 1.566 ug/l

RT: 13.042 min Scan# 1857

Delta R.T. 0.049 min

Lab File: VY023130.D

Acq: 15 Aug 2025 17:08

Instrument :

MSVOA_Y

ClientSampleId :

MOO-25-0223

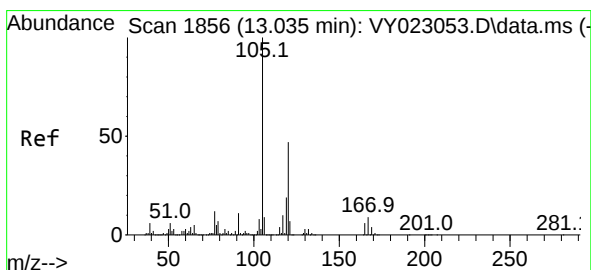
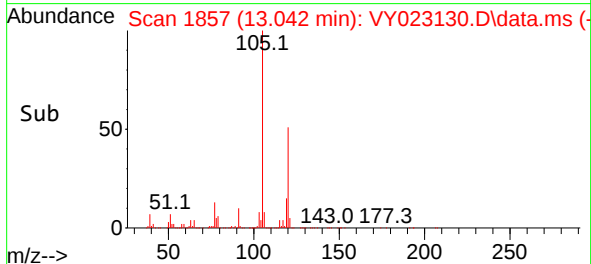
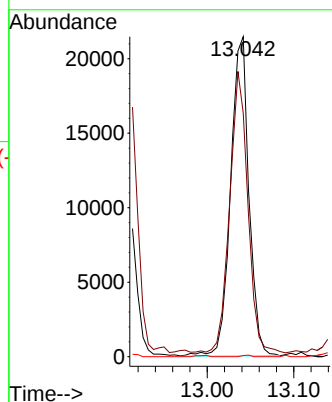
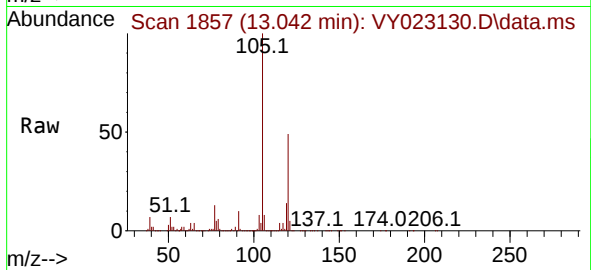
Tgt Ion:119 Resp: 31504

Ion Ratio Lower Upper

119 100

91 86.9 31.6 94.8

134 0.0 12.9 38.7#



#84

1,2,4-Trimethylbenzene

Concen: 11.311 ug/l

RT: 13.035 min Scan# 1856

Delta R.T. 0.000 min

Lab File: VY023130.D

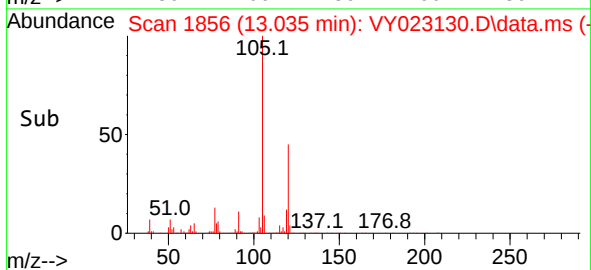
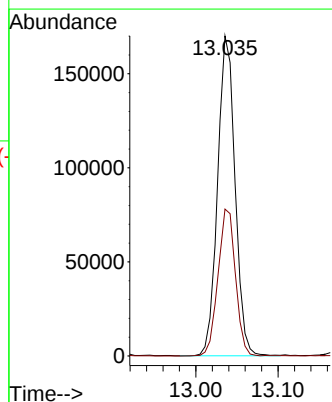
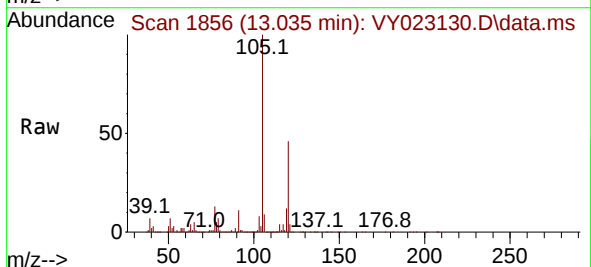
Acq: 15 Aug 2025 17:08

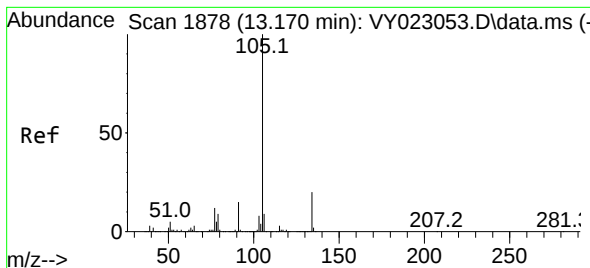
Tgt Ion:105 Resp: 250773

Ion Ratio Lower Upper

105 100

120 46.2 23.0 69.0





#85

sec-Butylbenzene

Concen: 8.487 ug/l

RT: 13.035 min Scan# 1856

Delta R.T. -0.134 min

Lab File: VY023130.D

Acq: 15 Aug 2025 17:08

Instrument :

MSVOA_Y

ClientSampleId :

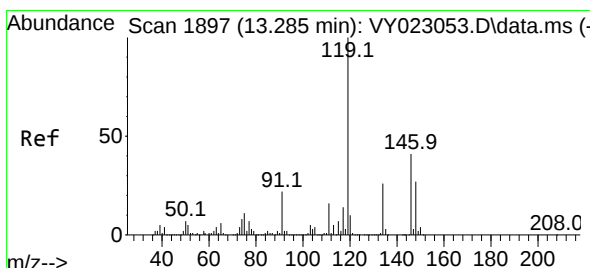
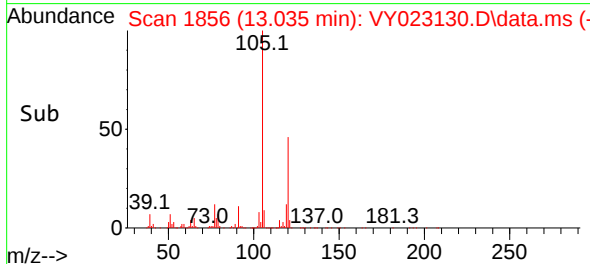
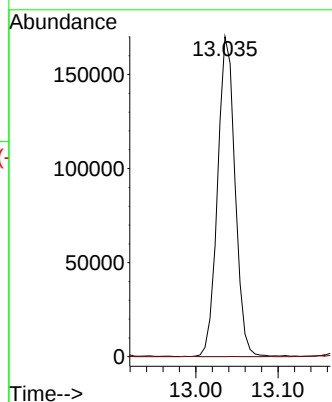
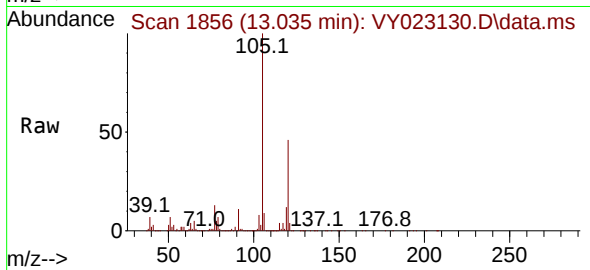
MOO-25-0223

Tgt Ion:105 Resp: 250773

Ion Ratio Lower Upper

105 100

134 0.0 10.2 30.4#



#86

p-Isopropyltoluene

Concen: 1.023 ug/l

RT: 13.285 min Scan# 1897

Delta R.T. 0.000 min

Lab File: VY023130.D

Acq: 15 Aug 2025 17:08

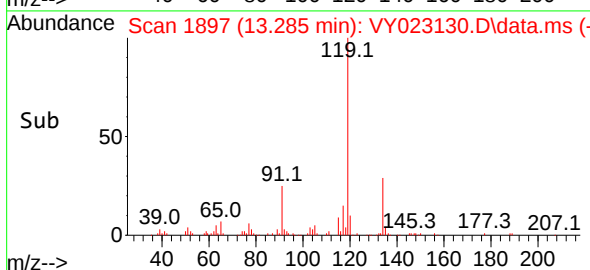
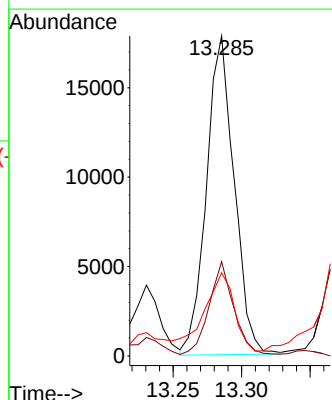
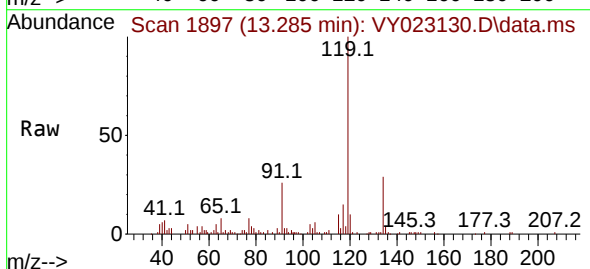
Tgt Ion:119 Resp: 25103

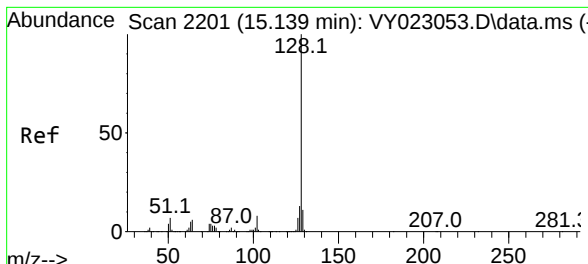
Ion Ratio Lower Upper

119 100

134 27.1 13.2 39.6

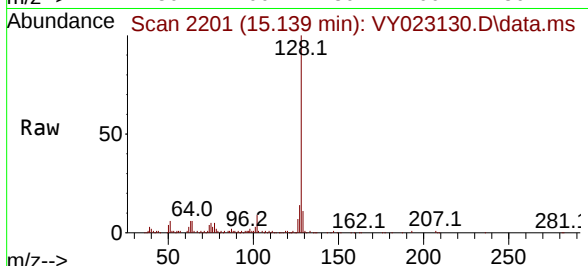
91 26.7 11.3 33.8





#95
 Naphthalene
 Concen: 5.852 ug/l
 RT: 15.139 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VY023130.D
 Acq: 15 Aug 2025 17:08

Instrument :
 MSVOA_Y
 ClientSampleId :
 MOO-25-0223



Tgt Ion:	128	Resp:	67101
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.4	15.6
129	10.7	9.0	13.4

