

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101525\
 Data File : VY023477.D
 Acq On : 15 Oct 2025 15:05
 Operator : SY/MD
 Sample : Q3355-01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 16 02:45:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

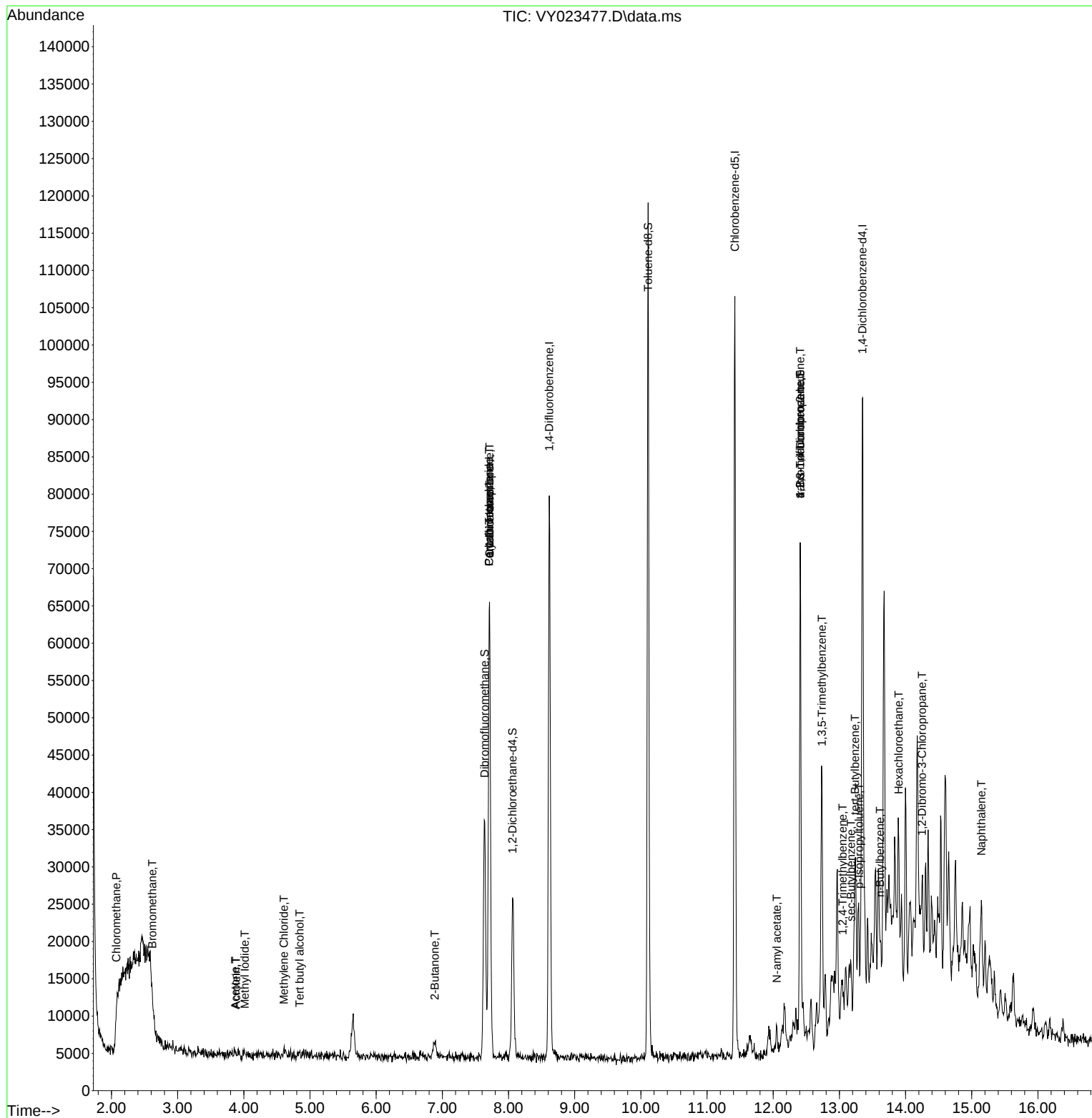
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.707	168	50647	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	68855	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	56907	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	21615	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	17966	42.421	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	84.840%
35) Dibromofluoromethane	7.640	113	23294	55.058	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	110.120%
50) Toluene-d8	10.109	98	76642	48.643	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.280%
62) 4-Bromofluorobenzene	12.408	95	18657	35.866	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	71.740%
Target Compounds						
					Qvalue	
3) Chloromethane	2.074	50	633	1.275	ug/l #	80
5) Bromomethane	2.617	94	1389	2.559	ug/l #	64
10) Methyl Iodide	4.013	142	557	1.074	ug/l #	85
11) Tert butyl alcohol	4.842	59	83	2.634	ug/l #	72
13) Acrolein	3.885	56	52	1.168	ug/l #	15
16) Acetone	3.873	43	531	5.266	ug/l #	57
20) Methylene Chloride	4.604	84	712	1.306	ug/l #	64
25) 2-Butanone	6.884	43	219	1.779	ug/l #	40
31) Cyclohexane	7.713	56	976	1.385	ug/l #	1
36) 1,1-Dichloropropene	7.713	75	3866	6.902	ug/l #	47
38) Carbon Tetrachloride	7.707	117	4916	7.238	ug/l #	21
74) N-amyl acetate	12.054	43	745	2.912	ug/l #	73
76) 1,2,3-Trichloropropane	12.408	75	9994	52.406	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.737	105	3212	2.790	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.408	75	9994	128.510	ug/l #	16
83) tert-Butylbenzene	13.237	119	2640	2.484	ug/l	75
84) 1,2,4-Trimethylbenzene	13.048	105	1465	1.275	ug/l	95
85) sec-Butylbenzene	13.176	105	1847	1.211	ug/l	90
86) p-Isopropyltoluene	13.298	119	1707	1.315	ug/l	89
89) n-Butylbenzene	13.615	91	2020	1.786	ug/l #	73
90) Hexachloroethane	13.895	117	1086	3.890	ug/l #	6
92) 1,2-Dibromo-3-Chloropr...	14.249	75	63	1.648	ug/l #	1
95) Naphthalene	15.145	128	9513	14.822	ug/l	99

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

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ALS Vial : 9 Sample Multiplier: 1

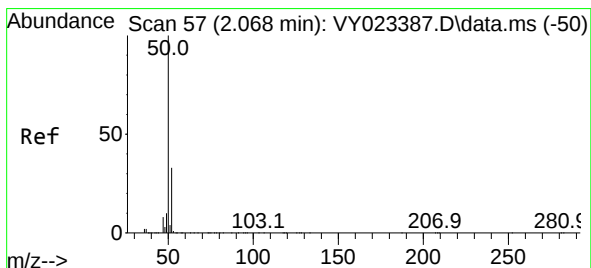
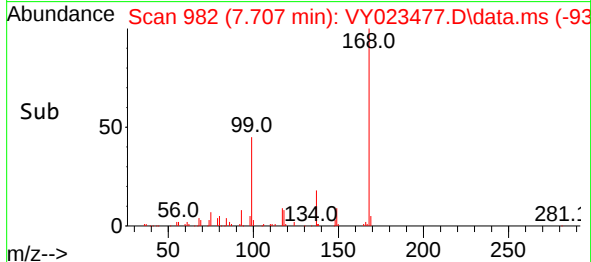
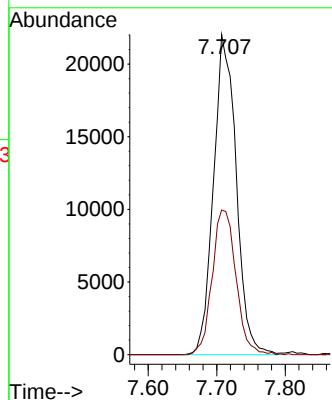
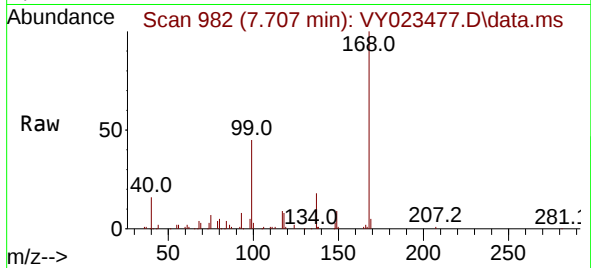
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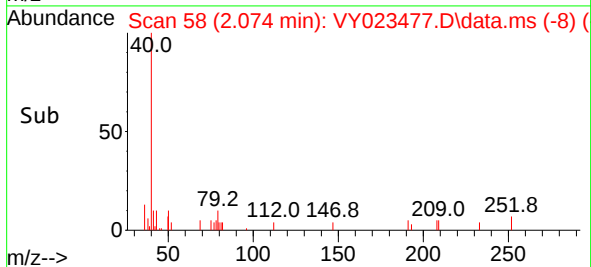
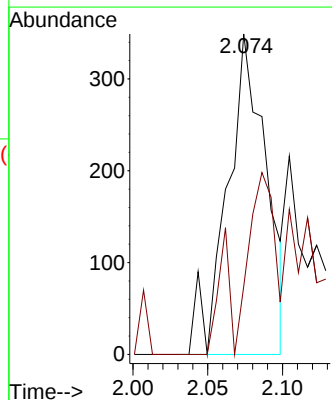
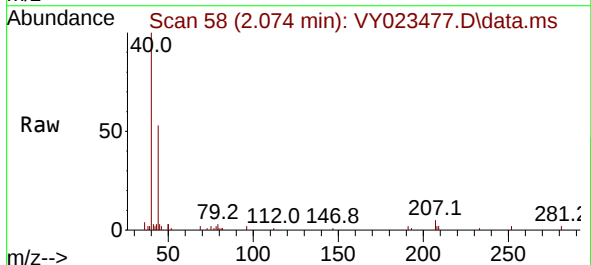
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

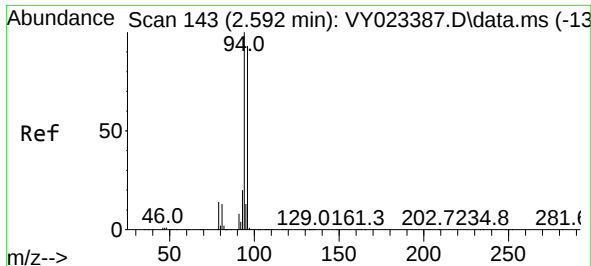
Tgt Ion:168 Resp: 50647
Ion Ratio Lower Upper
168 100
99 45.2 39.7 59.5



#3
Chloromethane
Concen: 1.275 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.006 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

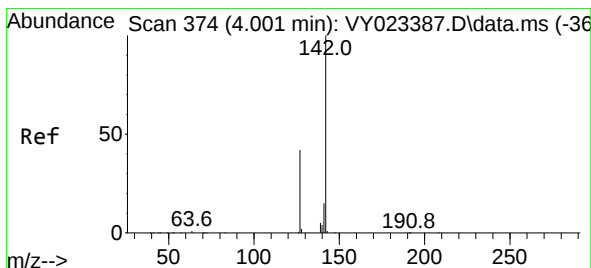
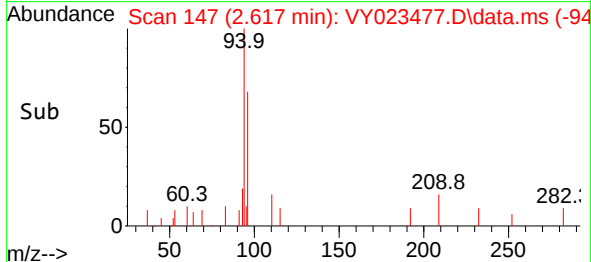
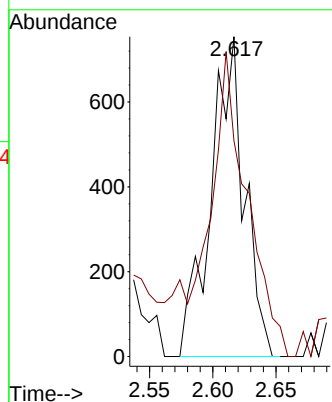
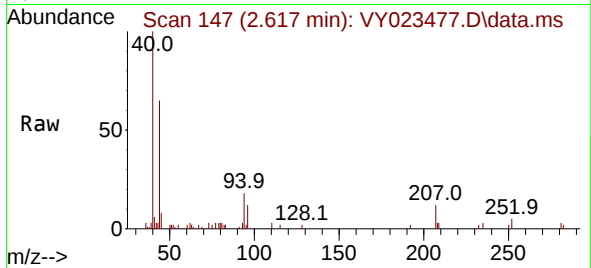
Tgt Ion: 50 Resp: 633
Ion Ratio Lower Upper
50 100
52 21.2 26.2 39.2#





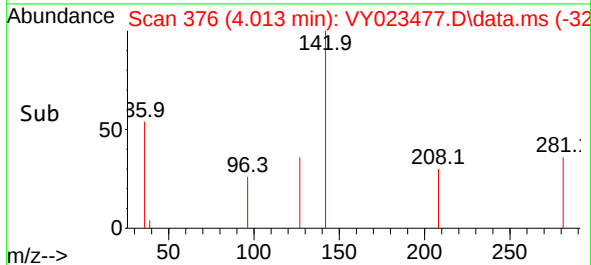
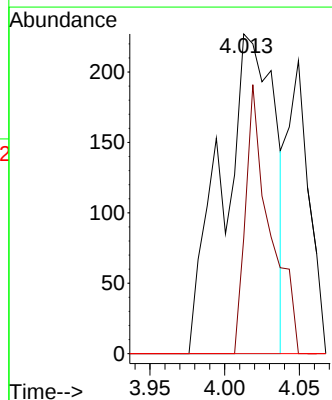
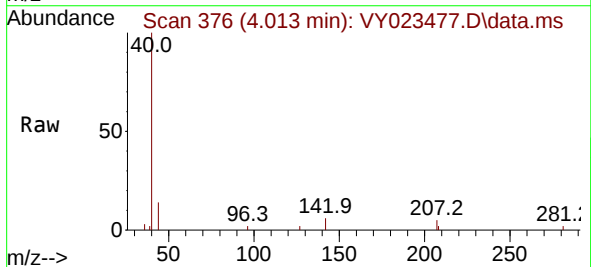
#5
Bromomethane
Concen: 2.559 ug/l
RT: 2.617 min Scan# 147
Delta R.T. 0.024 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

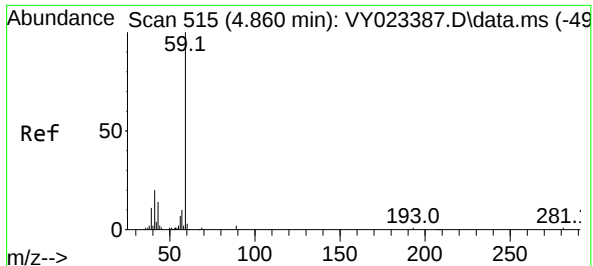
Tgt Ion: 94 Resp: 1389
Ion Ratio Lower Upper
94 100
96 58.1 74.5 111.7#



#10
Methyl Iodide
Concen: 1.074 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.012 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

Tgt Ion: 142 Resp: 557
Ion Ratio Lower Upper
142 100
127 38.6 34.8 52.2
141 0.0 11.6 17.4#

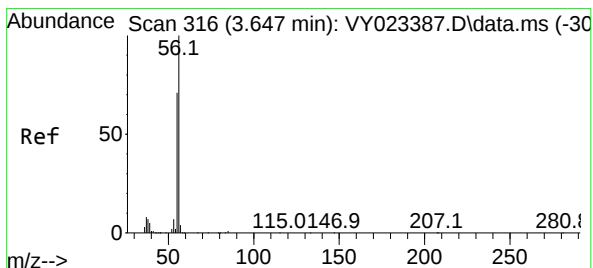
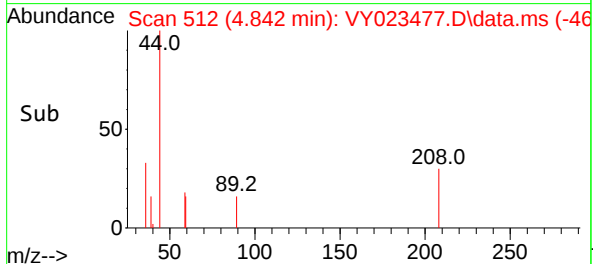
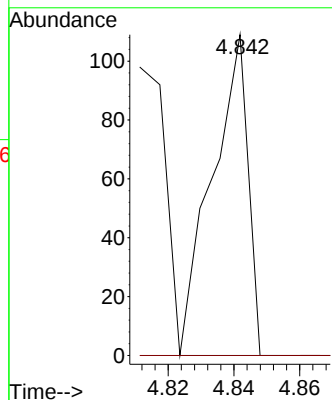
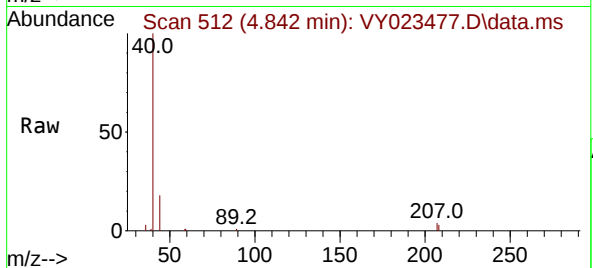




#11

Tert butyl alcohol
Concen: 2.634 ug/l
RT: 4.842 min Scan# 512
Delta R.T. -0.018 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

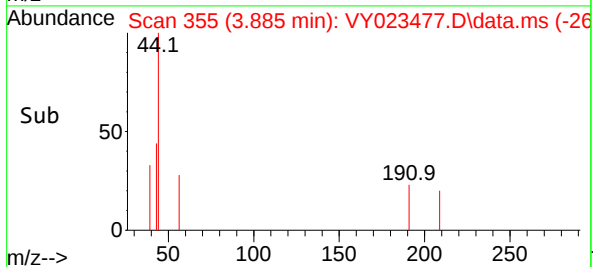
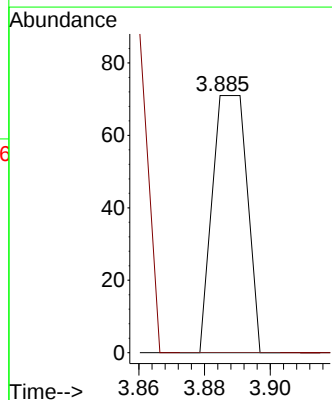
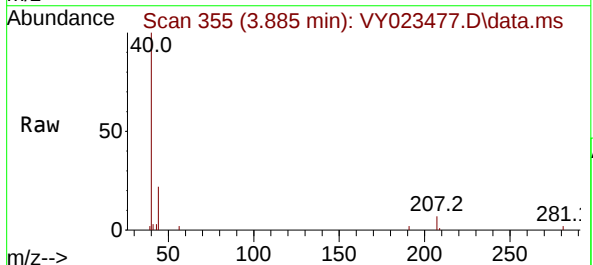
Tgt Ion: 59 Resp: 83
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

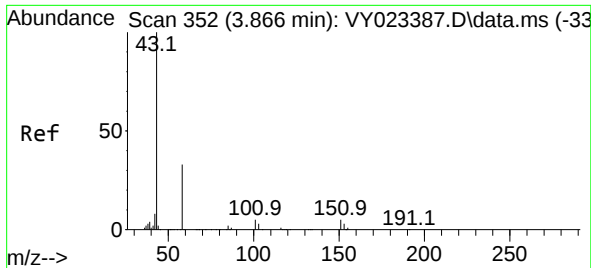


#13

Acrolein
Concen: 1.168 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.238 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

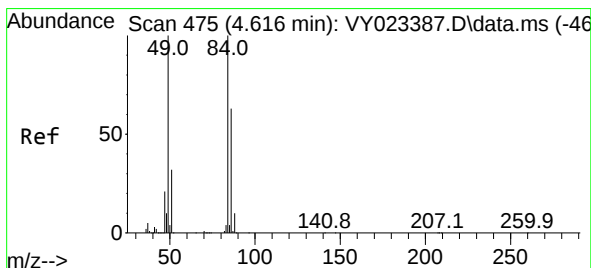
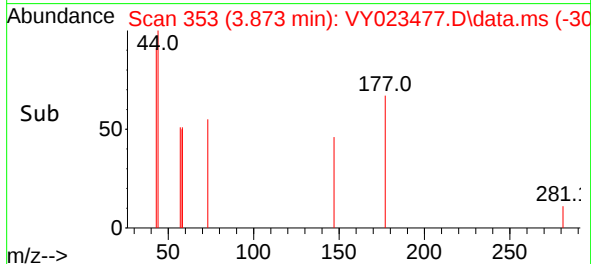
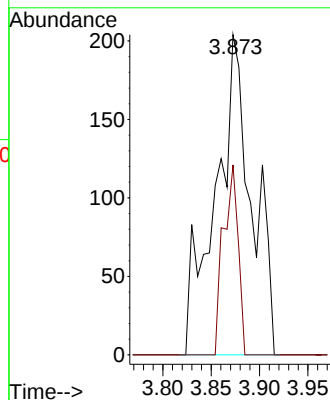
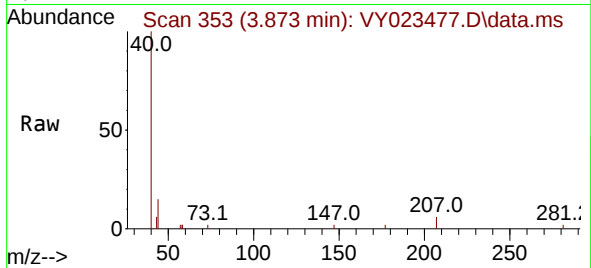
Tgt Ion: 56 Resp: 52
Ion Ratio Lower Upper
56 100
55 0.0 56.1 84.1#





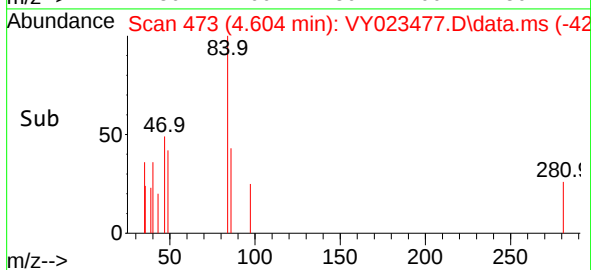
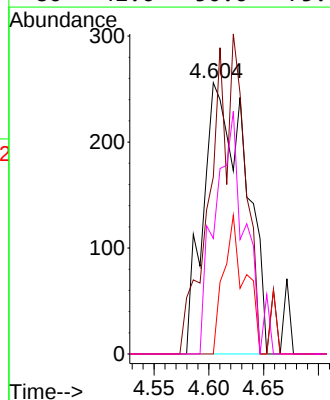
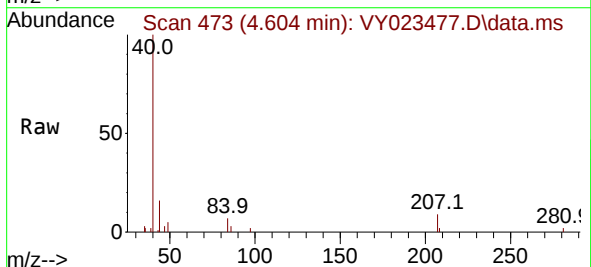
#16
Acetone
Concen: 5.266 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

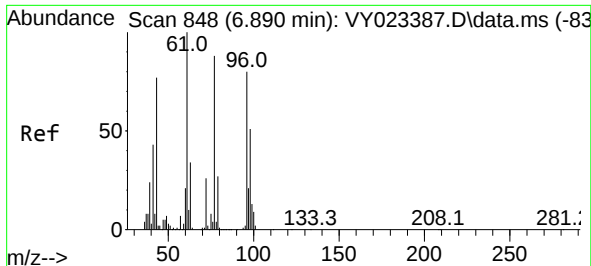
Tgt Ion: 43 Resp: 531
Ion Ratio Lower Upper
43 100
58 59.3 27.7 41.5#



#20
Methylene Chloride
Concen: 1.306 ug/l
RT: 4.604 min Scan# 473
Delta R.T. -0.012 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

Tgt Ion: 84 Resp: 712
Ion Ratio Lower Upper
84 100
49 65.2 80.2 120.4#
51 0.0 25.9 38.9#
86 42.6 50.6 75.8#





#25

2-Butanone

Concen: 1.779 ug/l

RT: 6.884 min Scan# 847

Delta R.T. -0.006 min

Lab File: VY023477.D

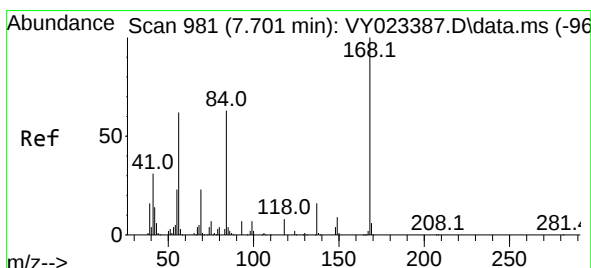
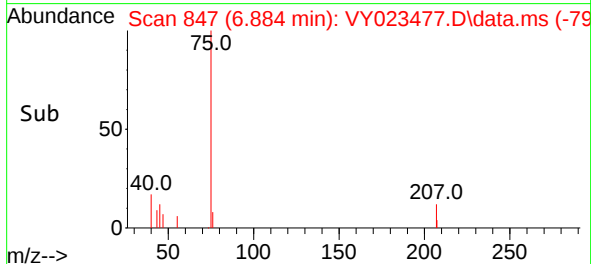
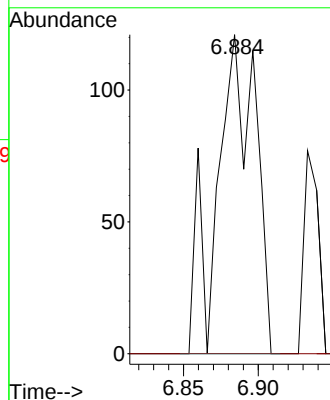
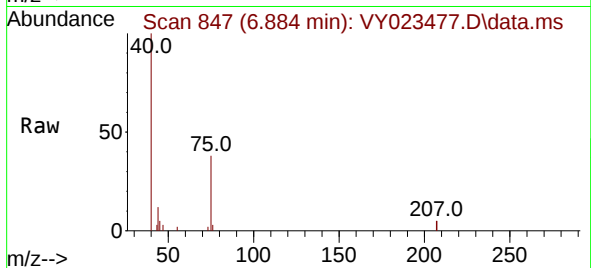
Acq: 15 Oct 2025 15:05

Tgt Ion: 43 Resp: 219

Ion Ratio Lower Upper

43 100

72 0.0 27.4 41.2#



#31

Cyclohexane

Concen: 1.385 ug/l

RT: 7.713 min Scan# 983

Delta R.T. 0.012 min

Lab File: VY023477.D

Acq: 15 Oct 2025 15:05

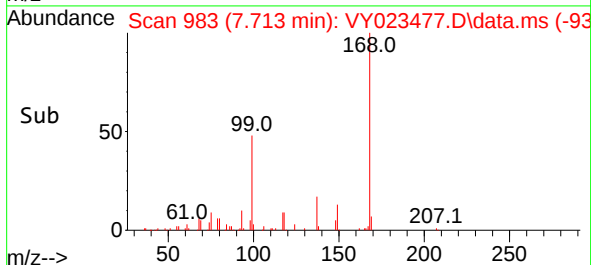
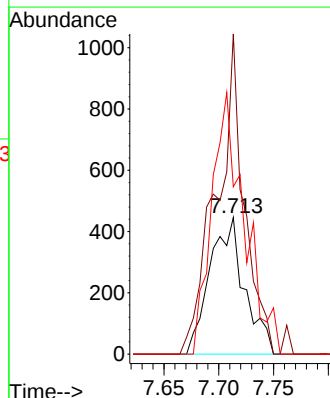
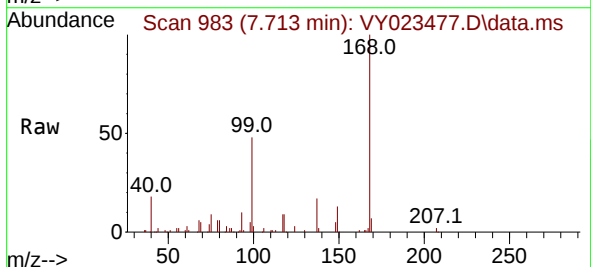
Tgt Ion: 56 Resp: 976

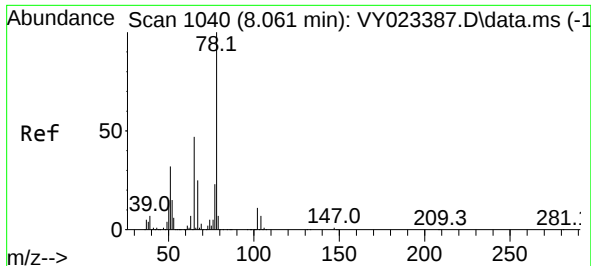
Ion Ratio Lower Upper

56 100

69 234.3 30.0 45.0#

84 122.4 81.2 121.8#





#33

1,2-Dichloroethane-d4

Concen: 42.421 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VY023477.D

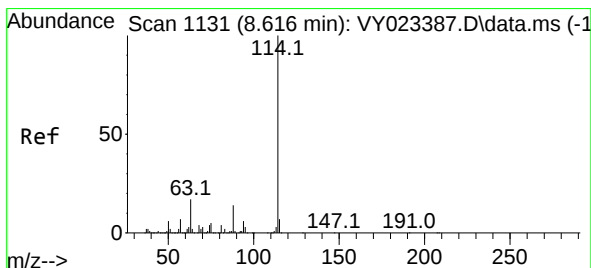
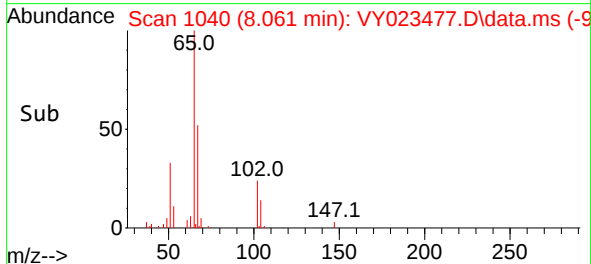
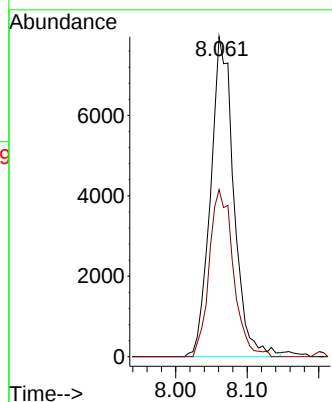
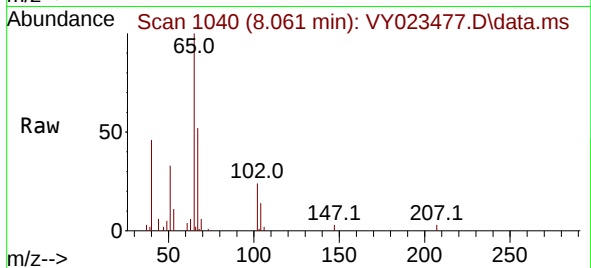
Acq: 15 Oct 2025 15:05

Tgt Ion: 65 Resp: 17966

Ion Ratio Lower Upper

65 100

67 54.0 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY023477.D

Acq: 15 Oct 2025 15:05

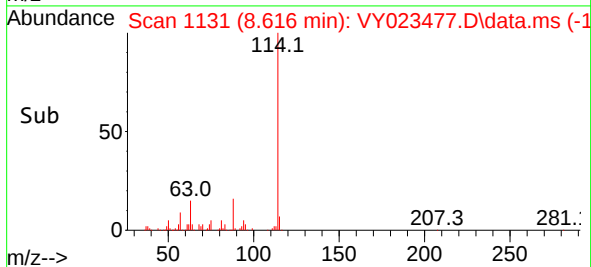
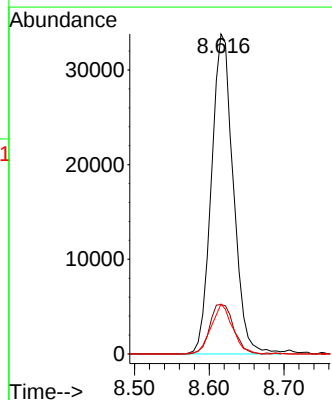
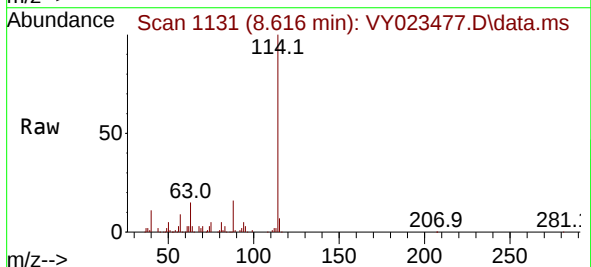
Tgt Ion: 114 Resp: 68855

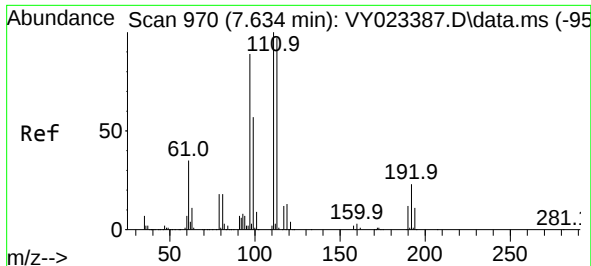
Ion Ratio Lower Upper

114 100

63 15.4 0.0 34.2

88 15.6 0.0 28.4





#35

Dibromofluoromethane

Concen: 55.058 ug/l

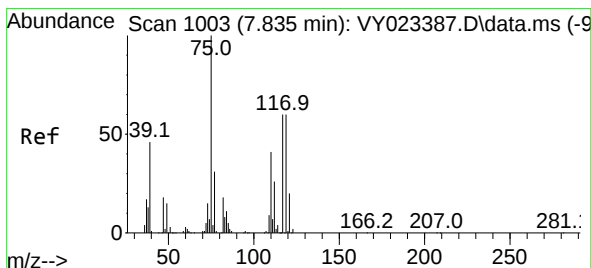
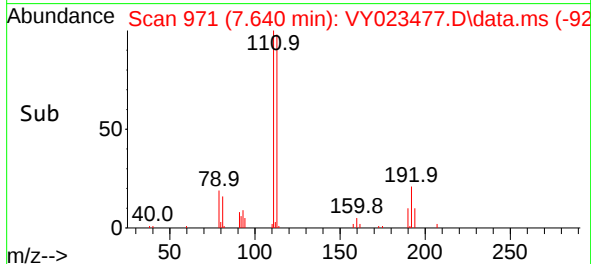
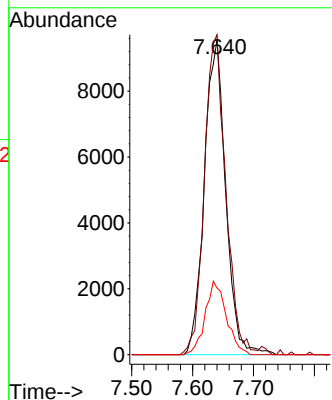
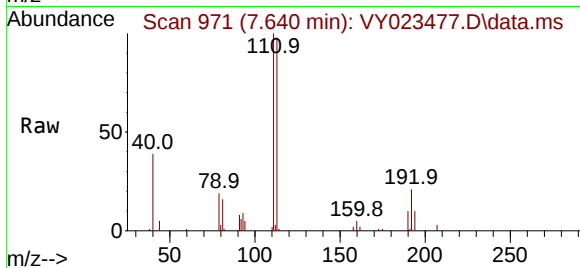
RT: 7.640 min Scan# 971

Delta R.T. 0.006 min

Lab File: VY023477.D

Acq: 15 Oct 2025 15:05

Tgt Ion:	113	Resp:	23294
Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.8	122.6
192	23.1	18.0	27.0



#36

1,1-Dichloropropene

Concen: 6.902 ug/l

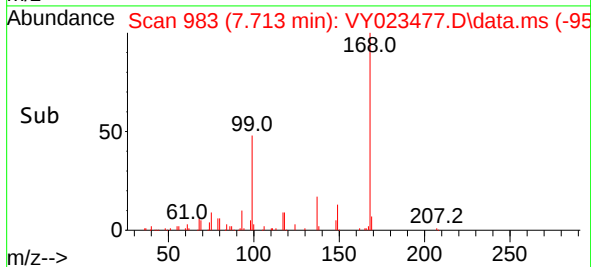
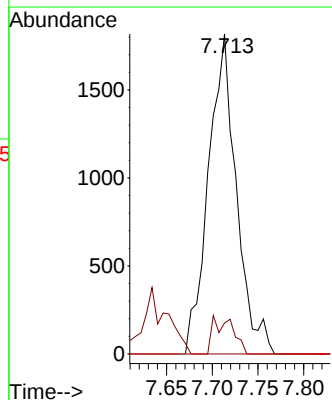
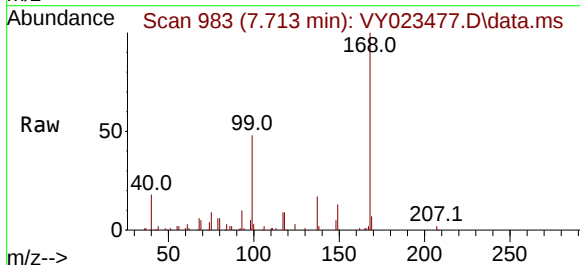
RT: 7.713 min Scan# 983

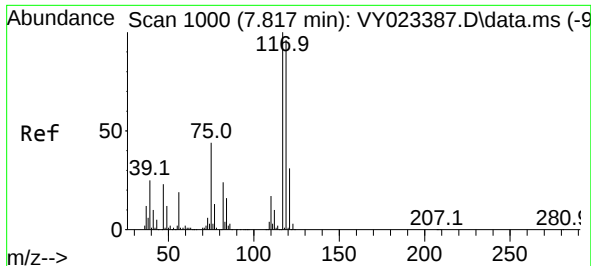
Delta R.T. -0.122 min

Lab File: VY023477.D

Acq: 15 Oct 2025 15:05

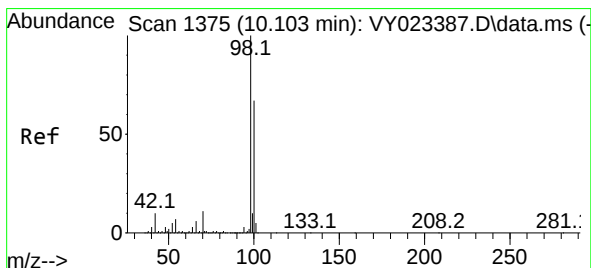
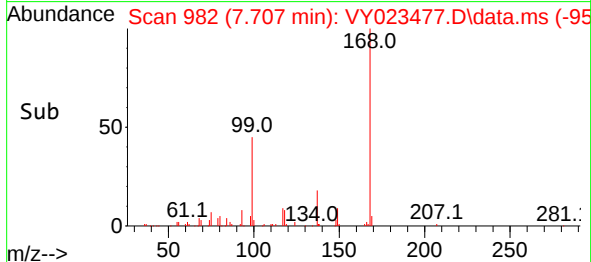
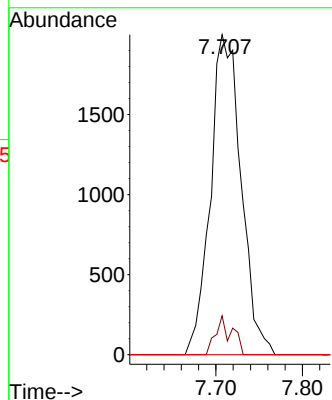
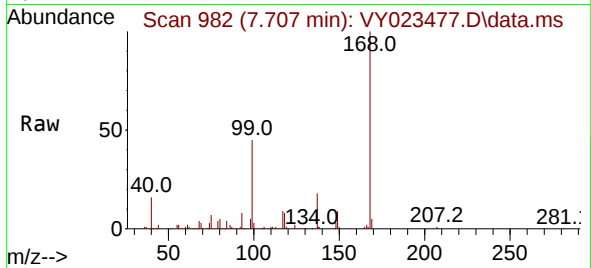
Tgt Ion:	75	Resp:	3866
Ion	Ratio	Lower	Upper
75	100		
110	8.4	19.9	59.7#
77	0.0	25.0	37.6#





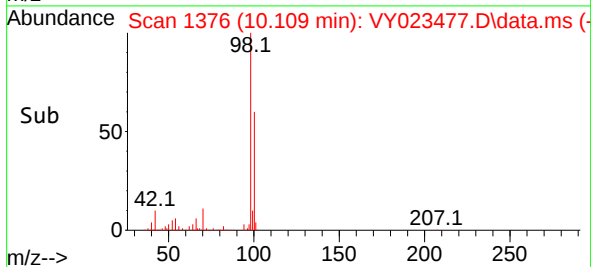
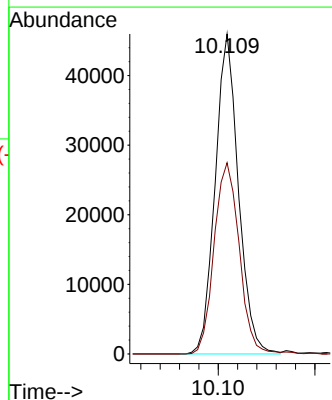
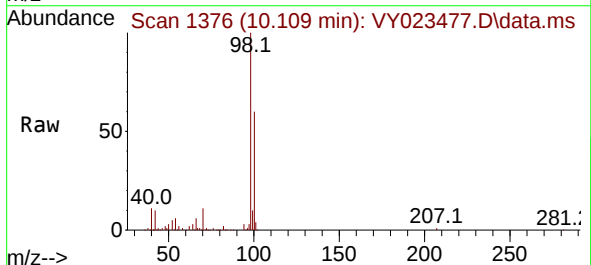
#38
Carbon Tetrachloride
Concen: 7.238 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.110 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

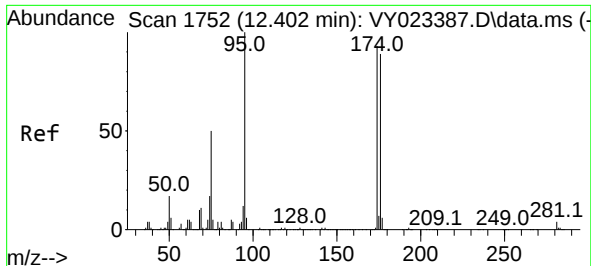
Tgt Ion:117 Resp: 4916
Ion Ratio Lower Upper
117 100
119 12.2 76.8 115.2#
121 0.0 24.5 36.7#



#50
Toluene-d8
Concen: 48.643 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

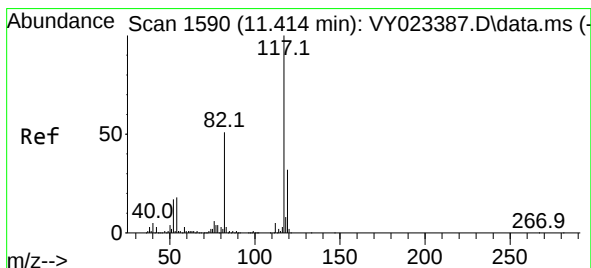
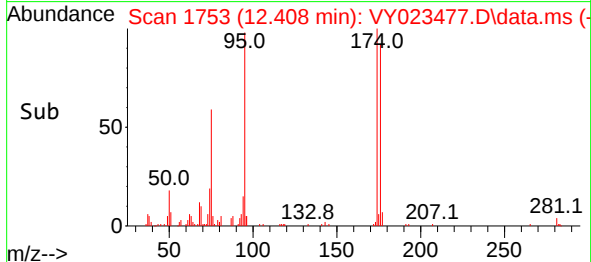
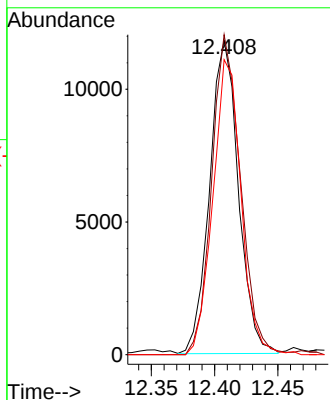
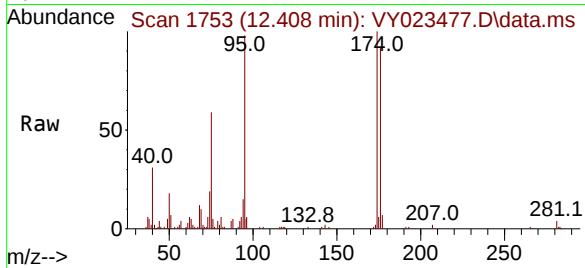
Tgt Ion: 98 Resp: 76642
Ion Ratio Lower Upper
98 100
100 64.7 53.0 79.4





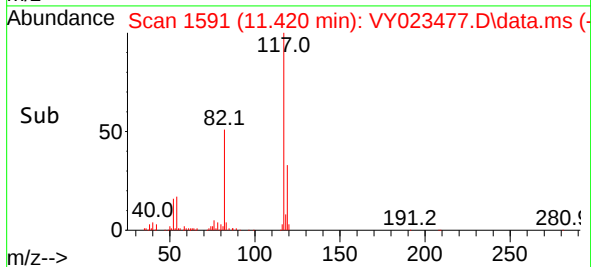
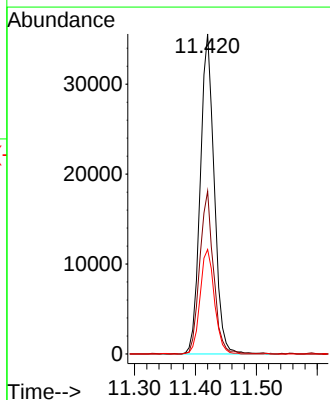
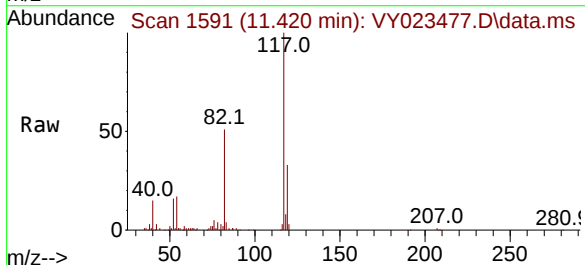
#62
4-Bromofluorobenzene
Concen: 35.866 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

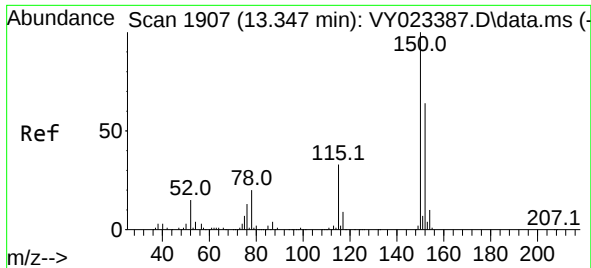
Tgt Ion: 95	Resp: 18657
Ion Ratio	Lower Upper
95	100
174	102.1 0.0 192.8
176	92.3 0.0 187.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

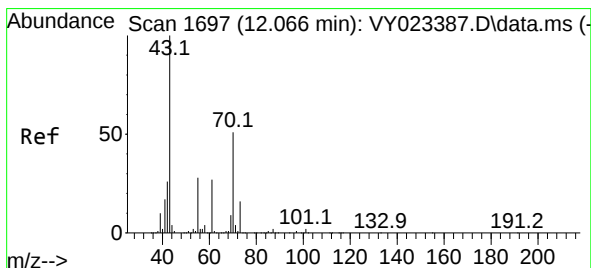
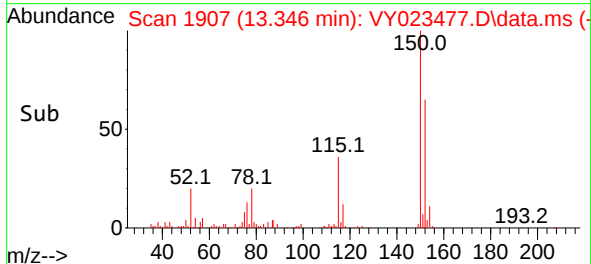
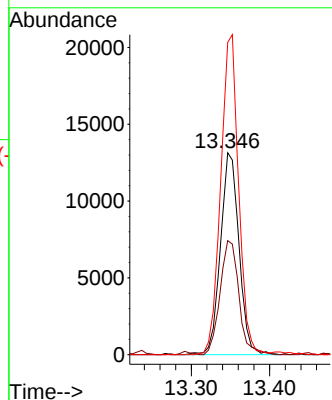
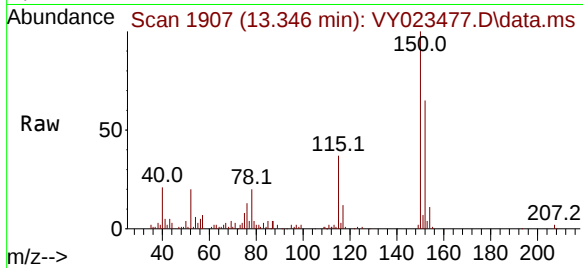
Tgt Ion: 117	Resp: 56907
Ion Ratio	Lower Upper
117	100
82	50.9 41.0 61.4
119	32.7 25.6 38.4





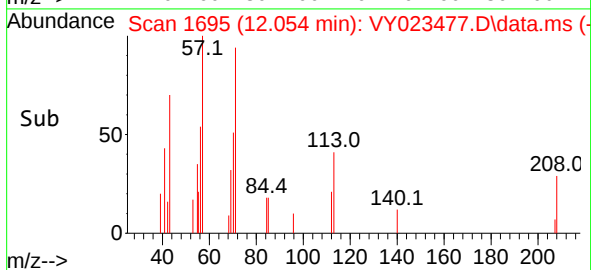
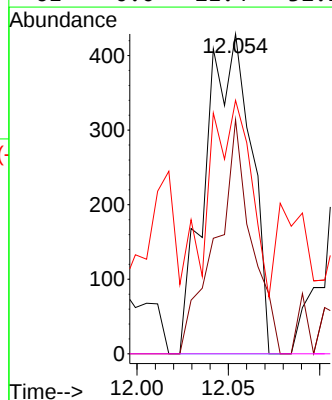
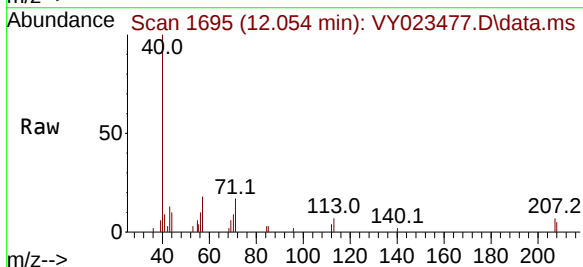
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

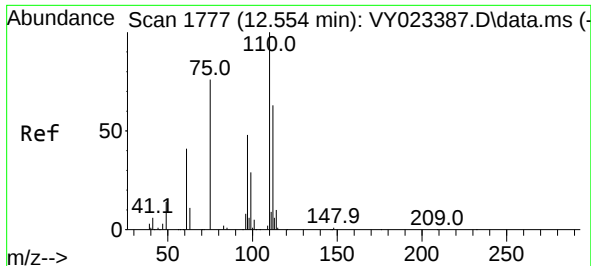
Tgt Ion:152 Resp: 21615
Ion Ratio Lower Upper
152 100
115 57.5 27.1 81.2
150 153.4 0.0 347.4



#74
N-ethyl acetate
Concen: 2.912 ug/l
RT: 12.054 min Scan# 1695
Delta R.T. -0.012 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

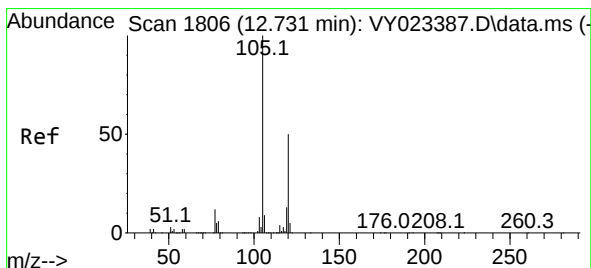
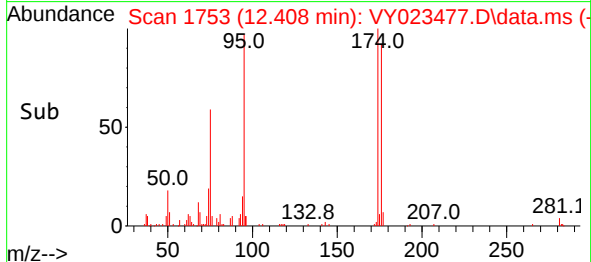
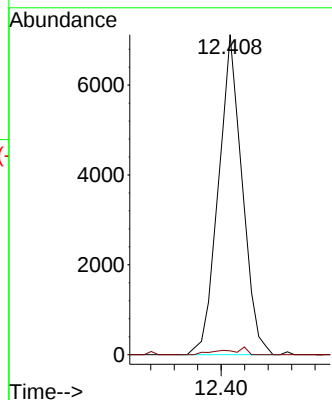
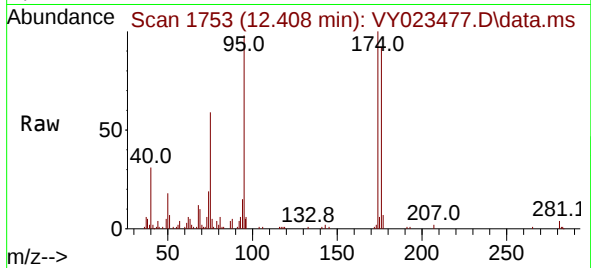
Tgt Ion: 43 Resp: 745
Ion Ratio Lower Upper
43 100
70 56.9 41.1 61.7
55 49.7 23.0 34.6#
61 0.0 21.4 32.2#





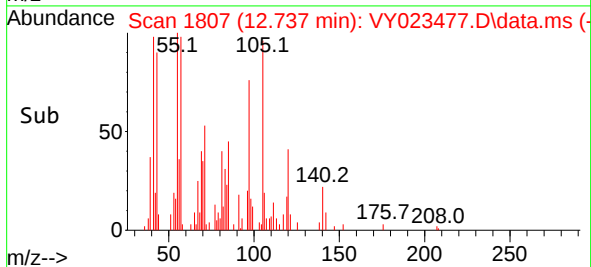
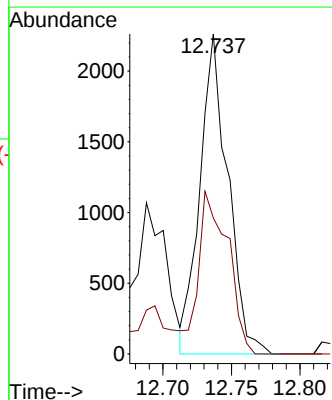
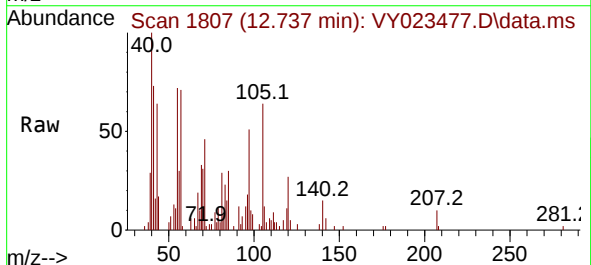
#76
1,2,3-Trichloropropane
Concen: 52.406 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.146 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

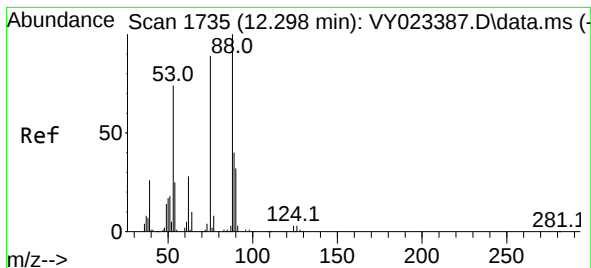
Tgt Ion: 75 Resp: 9994
Ion Ratio Lower Upper
75 100
77 2.2 0.0 0.0#



#80
1,3,5-Trimethylbenzene
Concen: 2.790 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

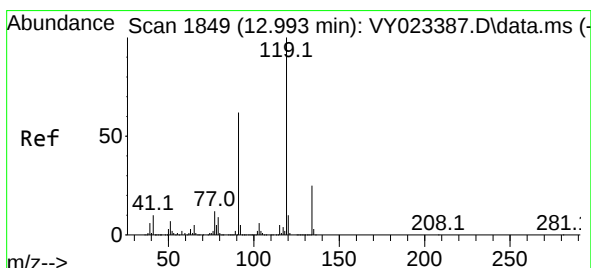
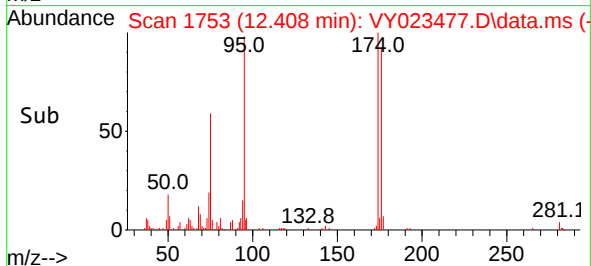
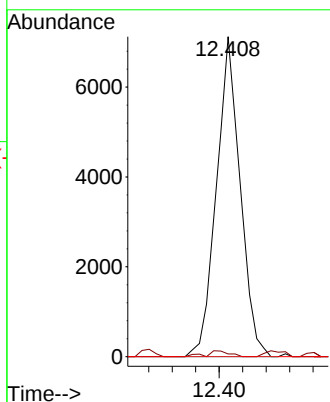
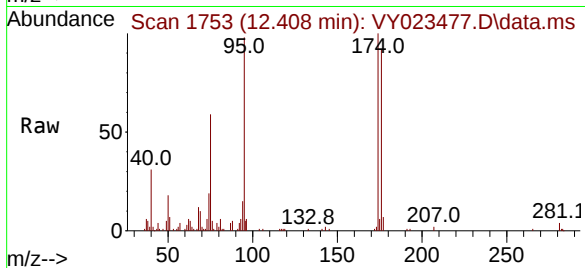
Tgt Ion: 105 Resp: 3212
Ion Ratio Lower Upper
105 100
120 53.6 25.4 76.4





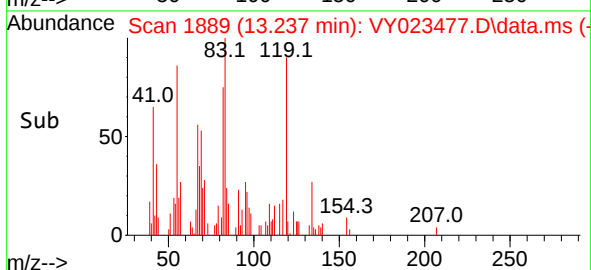
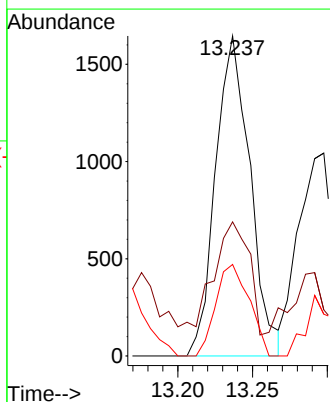
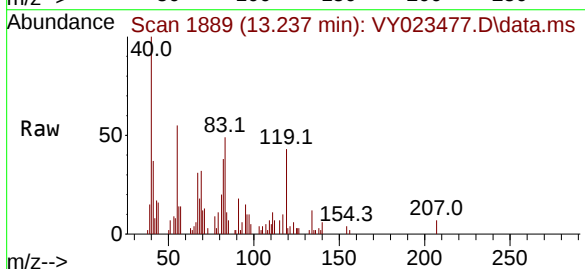
#81
 trans-1,4-Dichloro-2-butene
 Concen: 128.510 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. 0.110 min
 Lab File: VY023477.D
 Acq: 15 Oct 2025 15:05

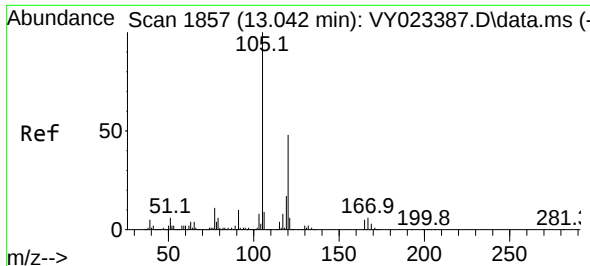
Tgt Ion: 75 Resp: 9994
 Ion Ratio Lower Upper
 75 100
 53 1.8 68.6 102.8#
 89 0.0 39.0 58.4#



#83
 tert-Butylbenzene
 Concen: 2.484 ug/l
 RT: 13.237 min Scan# 1889
 Delta R.T. 0.244 min
 Lab File: VY023477.D
 Acq: 15 Oct 2025 15:05

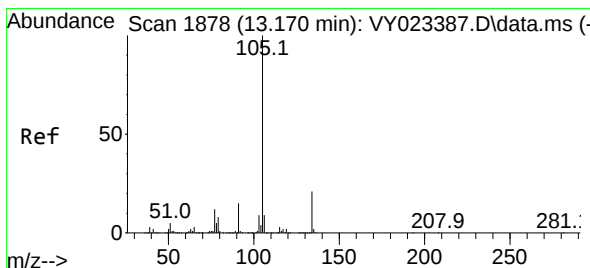
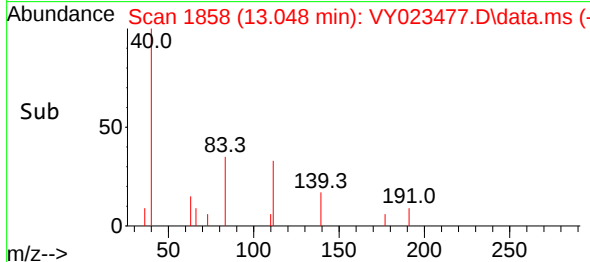
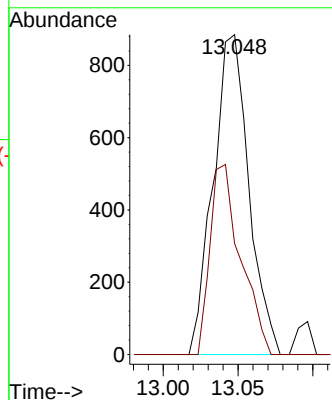
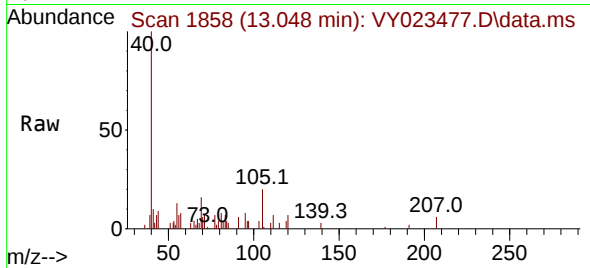
Tgt Ion: 119 Resp: 2640
 Ion Ratio Lower Upper
 119 100
 91 33.7 29.9 89.8
 134 27.8 12.9 38.7





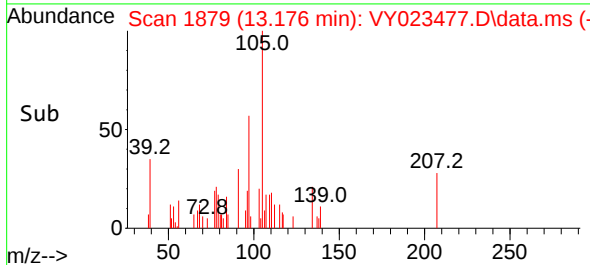
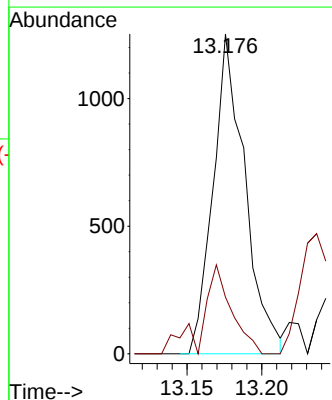
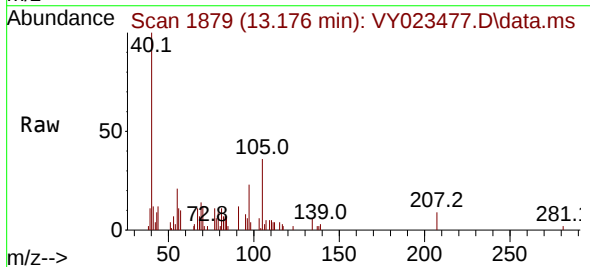
#84
1,2,4-Trimethylbenzene
Concen: 1.275 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

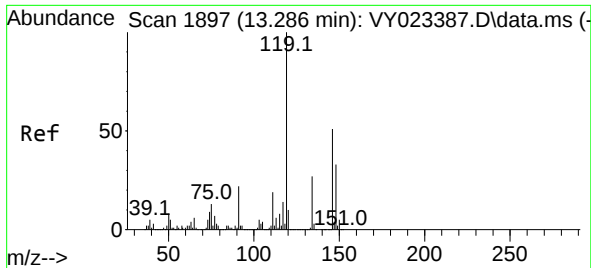
Tgt Ion:105 Resp: 1465
Ion Ratio Lower Upper
105 100
120 51.0 23.8 71.2



#85
sec-Butylbenzene
Concen: 1.211 ug/l
RT: 13.176 min Scan# 1879
Delta R.T. 0.006 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

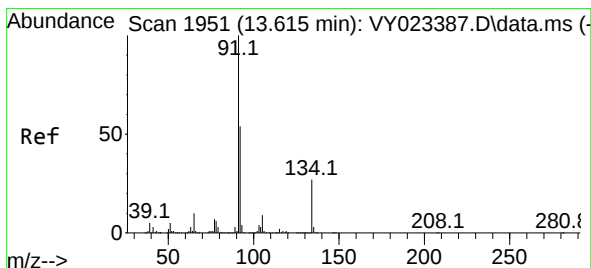
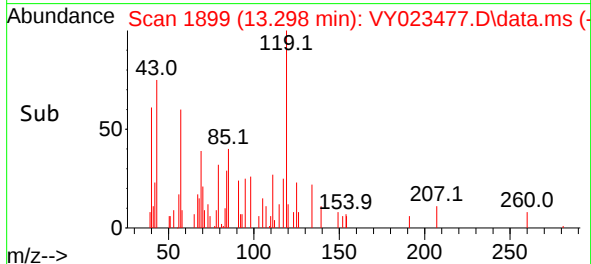
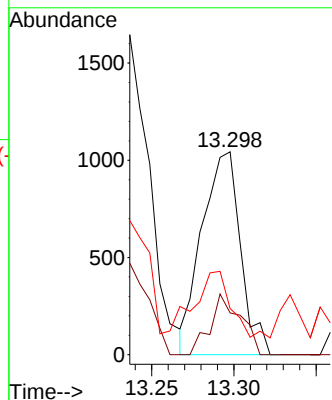
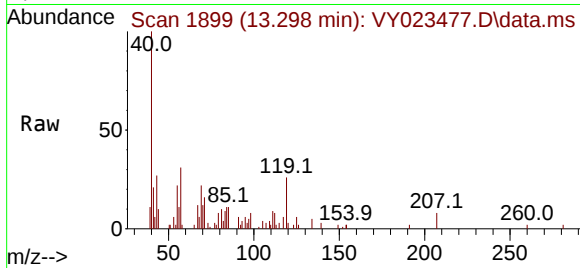
Tgt Ion:105 Resp: 1847
Ion Ratio Lower Upper
105 100
134 26.2 10.7 32.1





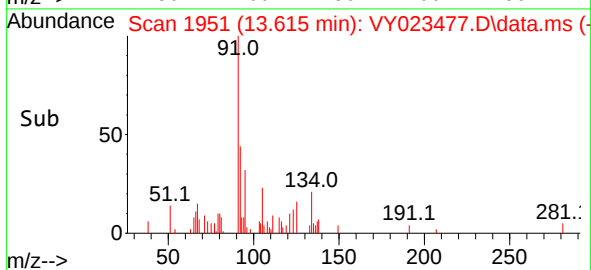
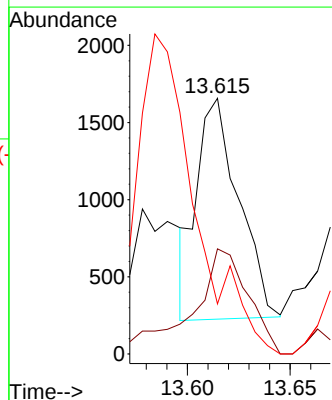
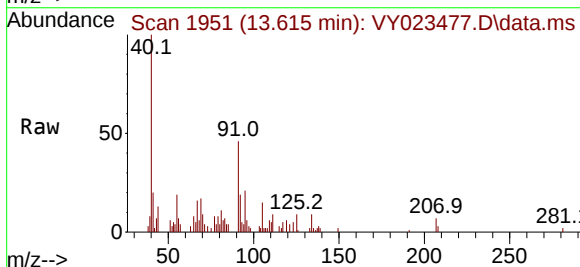
#86
p-Isopropyltoluene
Concen: 1.315 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. 0.012 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

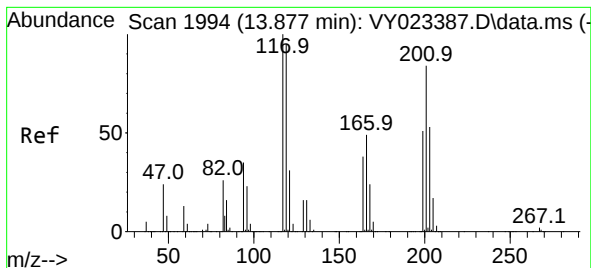
Tgt Ion:	119	Resp:	1707
Ion	Ratio	Lower	Upper
119	100		
134	23.6	13.6	40.7
91	29.8	10.9	32.9



#89
n-Butylbenzene
Concen: 1.786 ug/l
RT: 13.615 min Scan# 1951
Delta R.T. -0.000 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

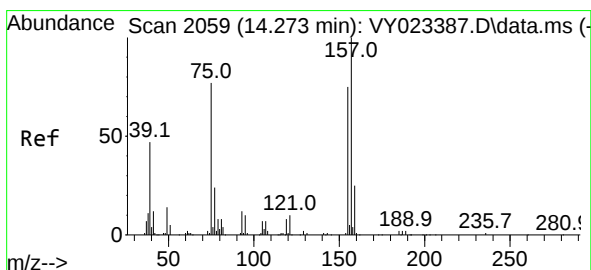
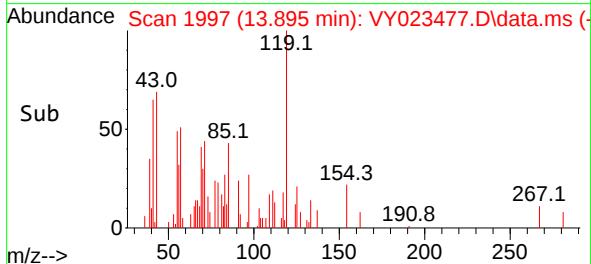
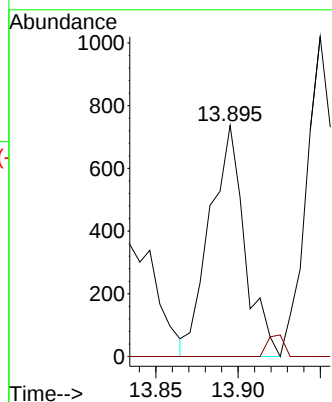
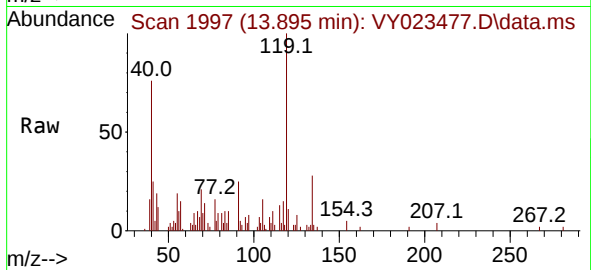
Tgt Ion:	91	Resp:	2020
Ion	Ratio	Lower	Upper
91	100		
92	63.1	27.0	80.8
134	0.0	14.1	42.2





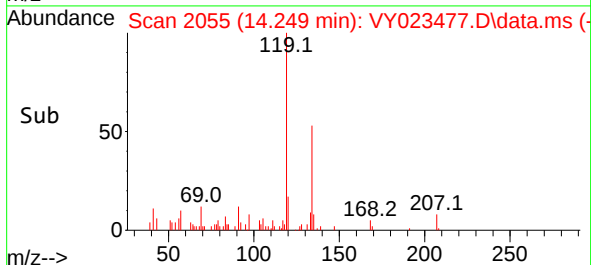
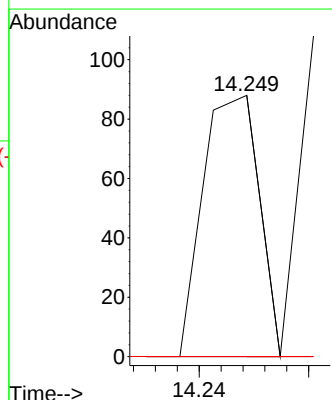
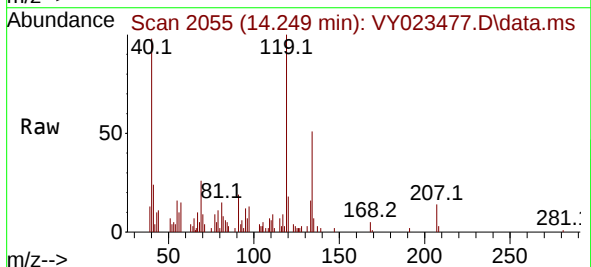
#90
Hexachloroethane
Concen: 3.890 ug/l
RT: 13.895 min Scan# 1997
Delta R.T. 0.018 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

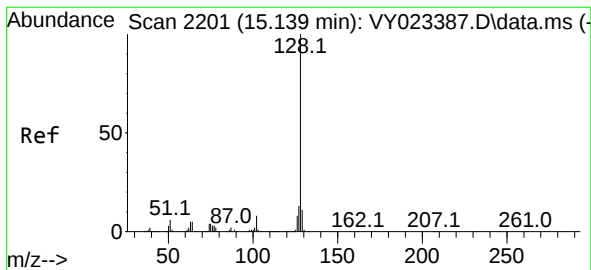
Tgt Ion:117 Resp: 1086
Ion Ratio Lower Upper
117 100
201 0.0 43.8 131.4#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.648 ug/l
RT: 14.249 min Scan# 2055
Delta R.T. -0.024 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

Tgt Ion: 75 Resp: 63
Ion Ratio Lower Upper
75 100
155 0.0 50.0 150.0#
157 0.0 63.8 191.5#





#95
Naphthalene
Concen: 14.822 ug/l
RT: 15.145 min Scan# 2202
Delta R.T. 0.006 min
Lab File: VY023477.D
Acq: 15 Oct 2025 15:05

Tgt Ion:128 Resp: 9513
Ion Ratio Lower Upper
128 100
127 14.0 10.4 15.6
129 11.2 8.9 13.3

