

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
 Data File : VY022387.D
 Acq On : 22 May 2025 11:48
 Operator : SY/MD
 Sample : Q2102-01
 Misc : 4.31g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 LAW-25-0077

Quant Time: May 23 03:35:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	228643	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	387512	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	274774	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	69919	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	113825	45.551	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	91.100%
35) Dibromofluoromethane	7.640	113	110971	47.979	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	95.960%
50) Toluene-d8	10.109	98	442550	46.719	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	93.440%
62) 4-Bromofluorobenzene	12.408	95	100855	33.590	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	67.180%

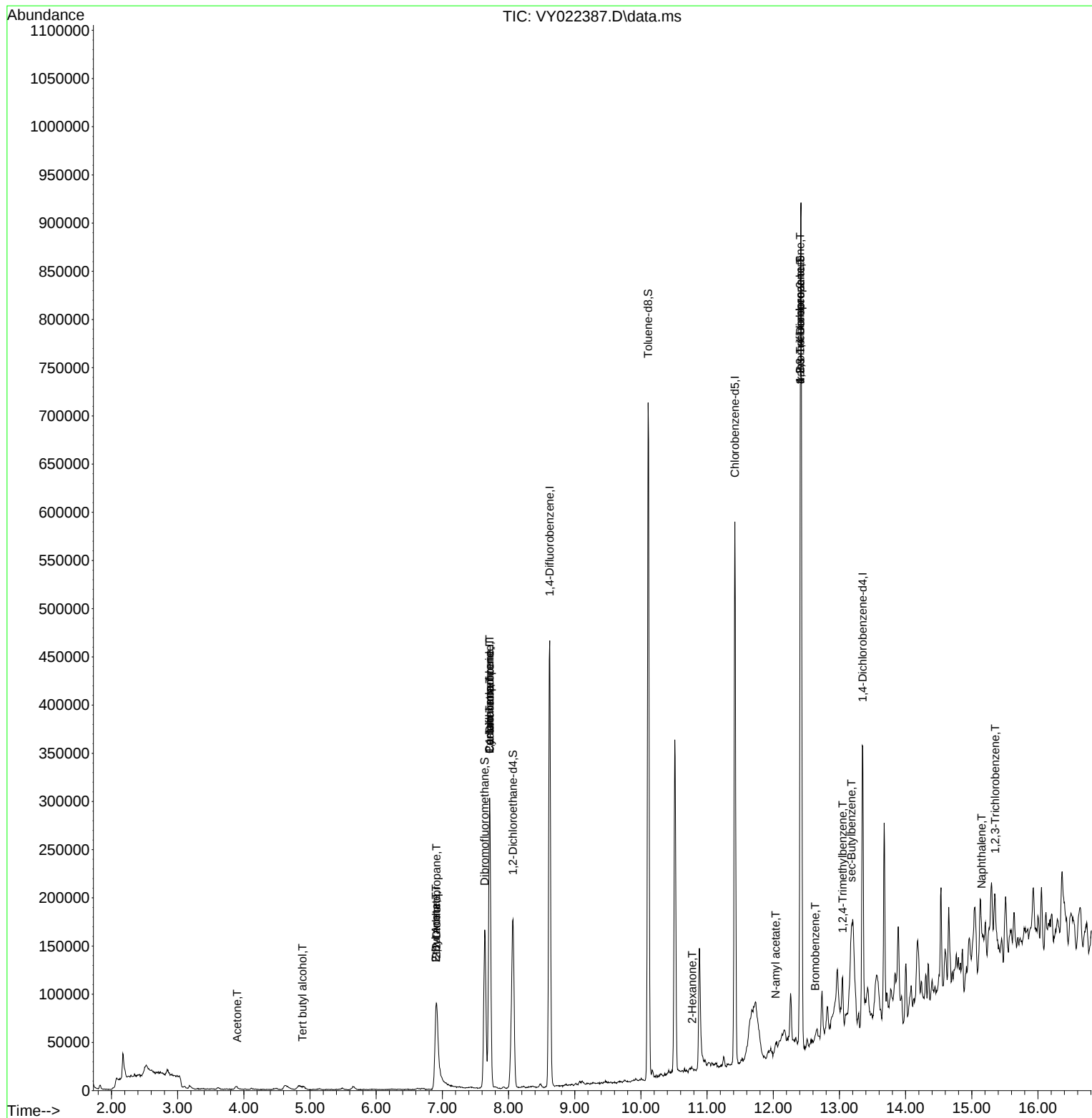
Target Compounds						Qvalue
11) Tert butyl alcohol	4.885	59	3326	17.430	ug/l #	100
16) Acetone	3.897	43	5611	11.975	ug/l	96
25) 2-Butanone	6.903	43	8426	10.751	ug/l #	77
26) 2,2-Dichloropropane	6.909	77	8149	1.811	ug/l #	53
31) Cyclohexane	7.713	56	7732	1.530	ug/l #	35
36) 1,1-Dichloropropene	7.713	75	20310	5.331	ug/l #	51
37) Ethyl Acetate	6.903	43	8426	4.597	ug/l #	26
38) Carbon Tetrachloride	7.713	117	22861	5.797	ug/l #	17
59) 2-Hexanone	10.774	43	1428	1.086	ug/l	85
74) N-amyl acetate	12.036	43	5050	3.048	ug/l #	46
76) 1,2,3-Trichloropropane	12.408	75	64775	91.445	ug/l #	100
77) Bromobenzene	12.633	156	5761	4.657	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.408	75	64775	185.243	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.048	105	22267	4.797	ug/l	97
85) sec-Butylbenzene	13.182	105	6925	1.122	ug/l	93
95) Naphthalene	15.151	128	9747	4.192	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.352	180	2413	2.321	ug/l #	9

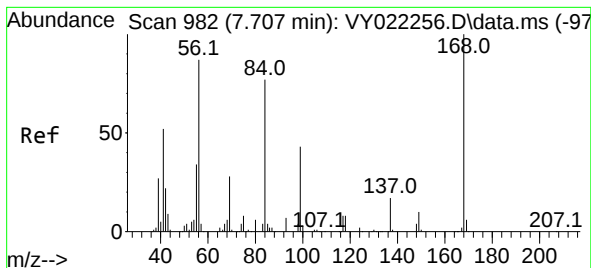
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.713 min Scan# 9

Delta R.T. 0.006 min

Lab File: VY022387.D

Acq: 22 May 2025 11:48

Instrument :

MSVOA_Y

ClientSampleId :

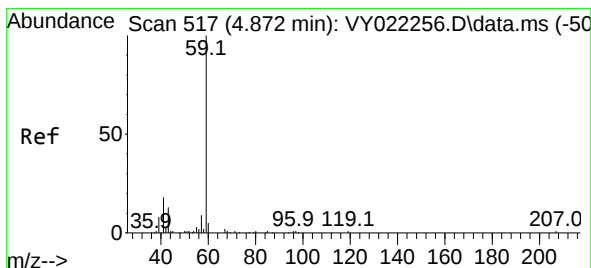
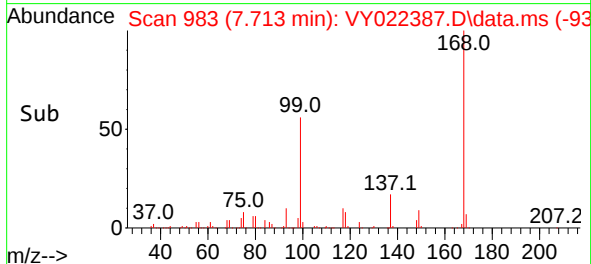
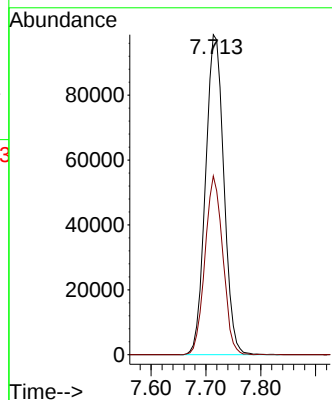
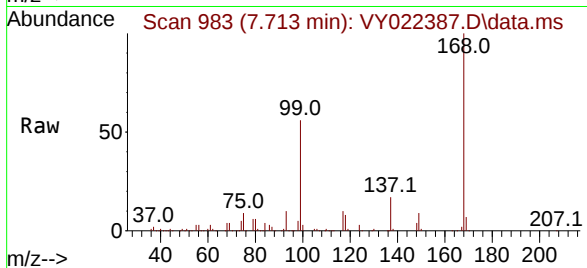
LAW-25-0077

Tgt Ion:168 Resp: 228643

Ion Ratio Lower Upper

168 100

99 55.9 44.2 66.4



#11

Tert butyl alcohol

Concen: 17.430 ug/l

RT: 4.885 min Scan# 519

Delta R.T. 0.012 min

Lab File: VY022387.D

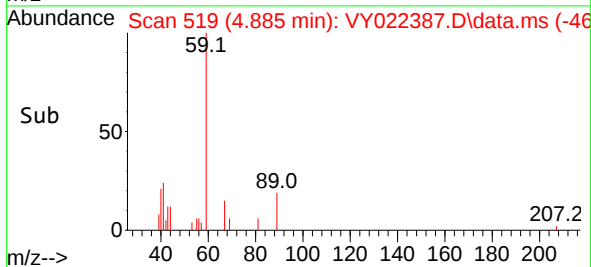
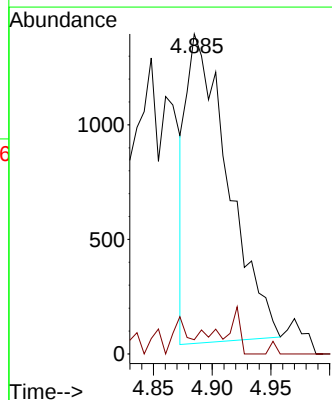
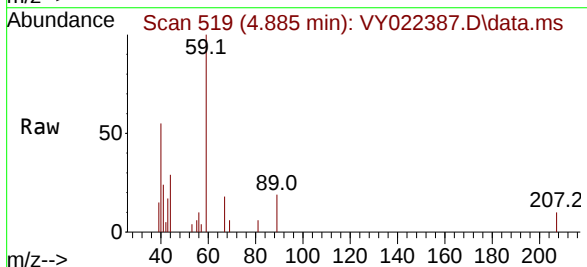
Acq: 22 May 2025 11:48

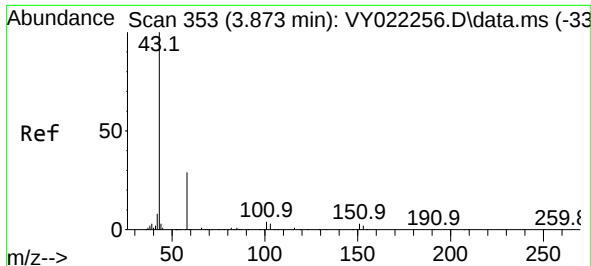
Tgt Ion: 59 Resp: 3326

Ion Ratio Lower Upper

59 100

57 2.0 0.0 0.0#

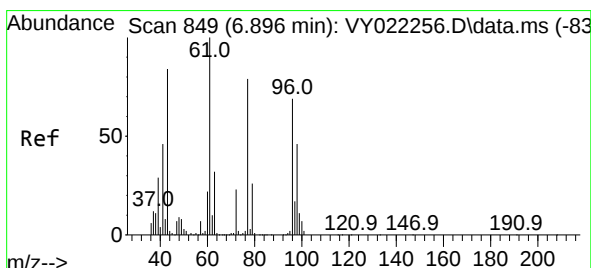
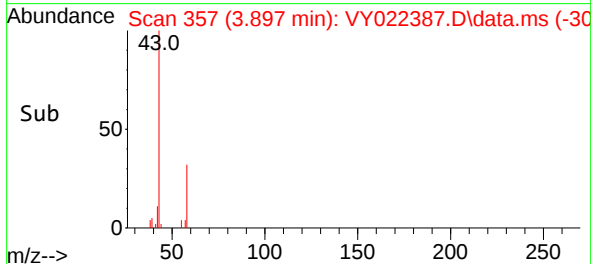
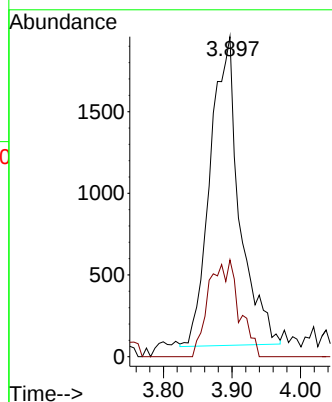
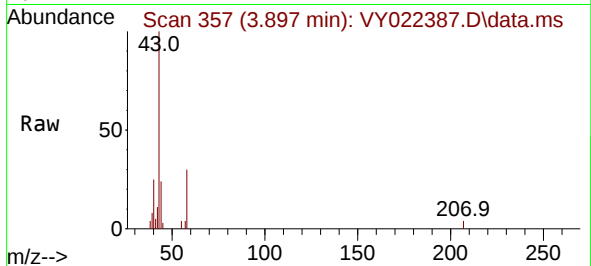




#16
Acetone
Concen: 11.975 ug/l
RT: 3.897 min Scan# 31
Delta R.T. 0.025 min
Lab File: VY022387.D
Acq: 22 May 2025 11:48

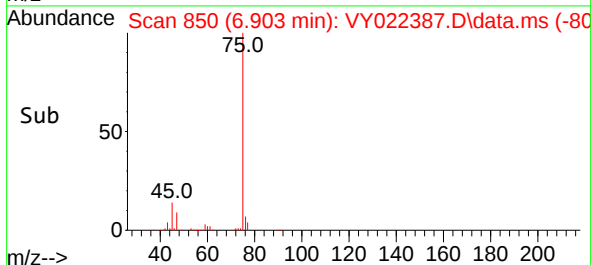
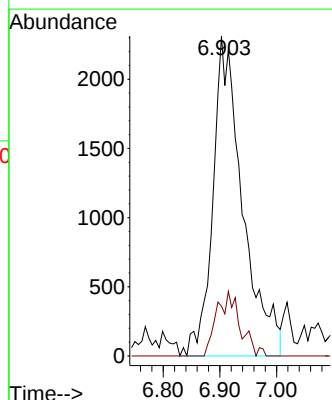
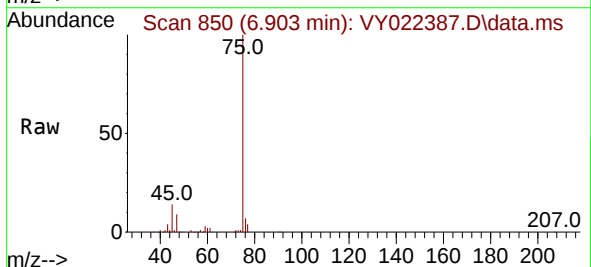
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0077

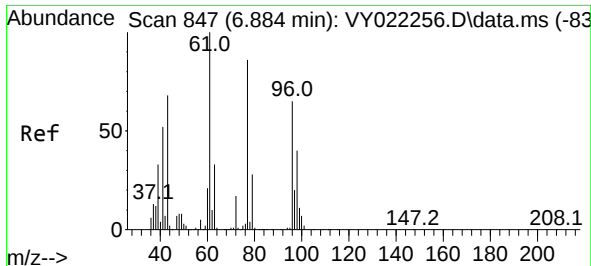
Tgt Ion: 43 Resp: 5611
Ion Ratio Lower Upper
43 100
58 31.5 23.6 35.4



#25
2-Butanone
Concen: 10.751 ug/l
RT: 6.903 min Scan# 850
Delta R.T. 0.006 min
Lab File: VY022387.D
Acq: 22 May 2025 11:48

Tgt Ion: 43 Resp: 8426
Ion Ratio Lower Upper
43 100
72 15.6 22.1 33.1#





#26

2,2-Dichloropropane

Concen: 1.811 ug/l

RT: 6.909 min Scan# 81

Delta R.T. 0.025 min

Lab File: VY022387.D

Acq: 22 May 2025 11:48

Instrument :

MSVOA_Y

ClientSampleId :

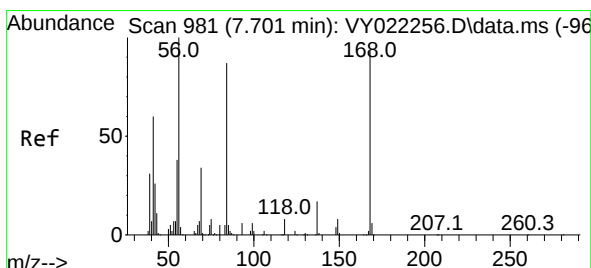
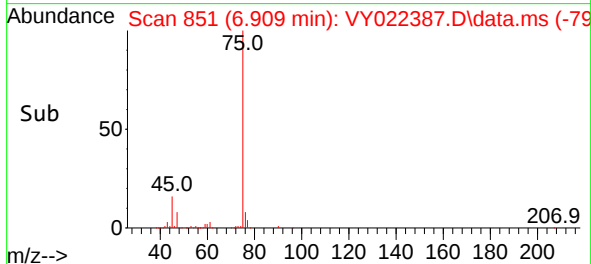
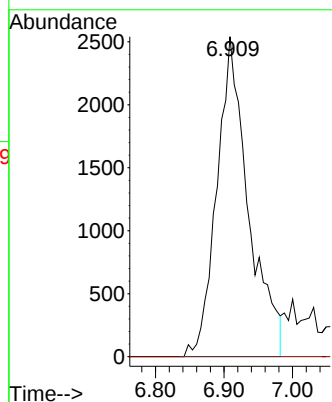
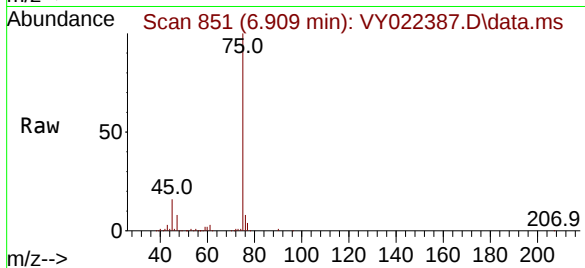
LAW-25-0077

Tgt Ion: 77 Resp: 8149

Ion Ratio Lower Upper

77 100

97 0.0 11.2 33.5#



#31

Cyclohexane

Concen: 1.530 ug/l

RT: 7.713 min Scan# 983

Delta R.T. 0.012 min

Lab File: VY022387.D

Acq: 22 May 2025 11:48

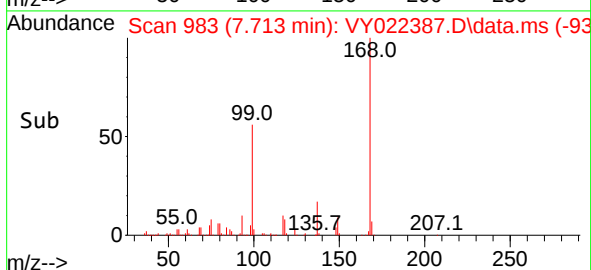
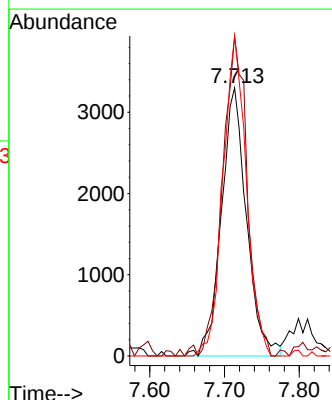
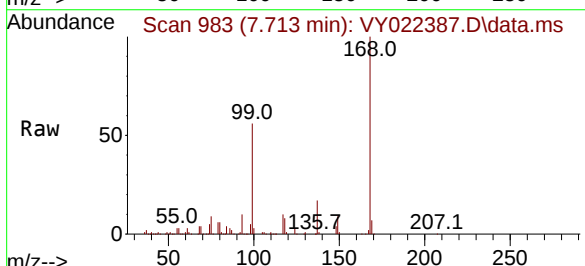
Tgt Ion: 56 Resp: 7732

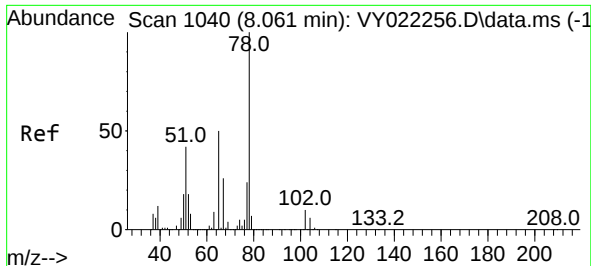
Ion Ratio Lower Upper

56 100

69 116.9 27.4 41.2#

84 119.3 70.0 105.0#

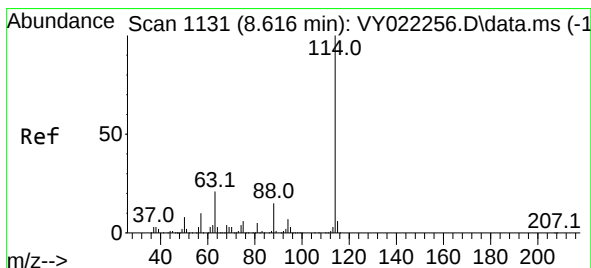
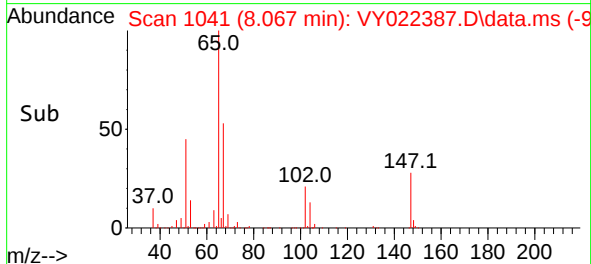
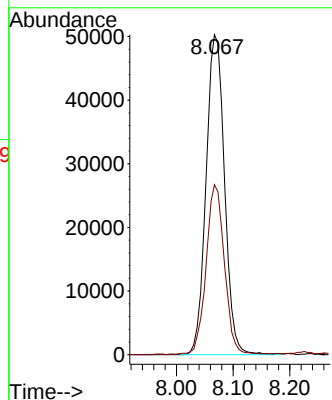
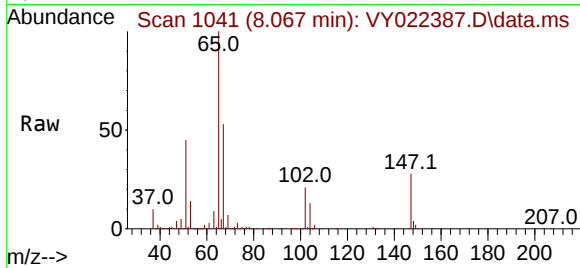




#33
 1,2-Dichloroethane-d4
 Concen: 45.551 ug/l
 RT: 8.067 min Scan# 110
 Delta R.T. 0.006 min
 Lab File: VY022387.D
 Acq: 22 May 2025 11:48

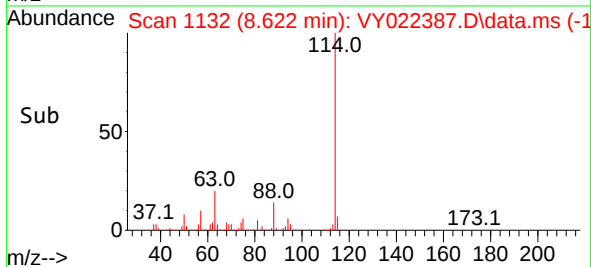
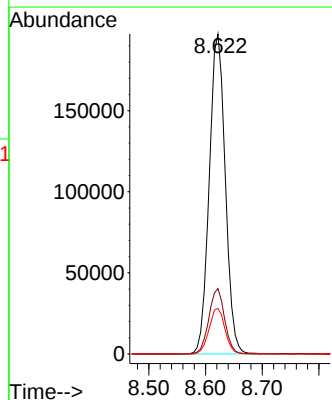
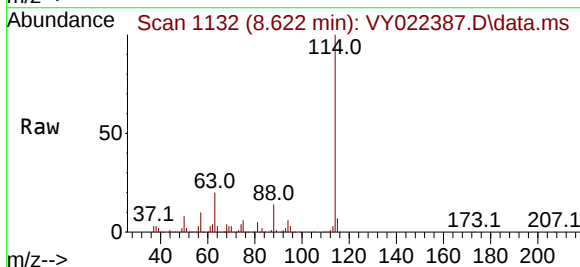
Instrument :
 MSVOA_Y
 ClientSampleId :
 LAW-25-0077

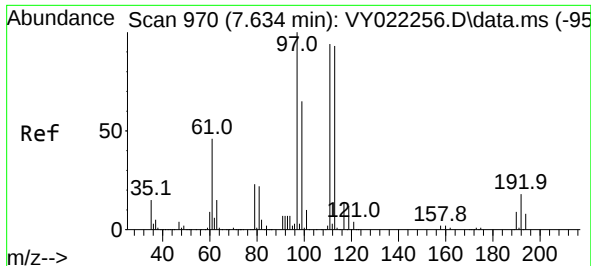
Tgt Ion: 65 Resp: 113825
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.622 min Scan# 1132
 Delta R.T. 0.006 min
 Lab File: VY022387.D
 Acq: 22 May 2025 11:48

Tgt Ion: 114 Resp: 387512
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 41.0
 88 14.2 0.0 29.4





#35

Dibromofluoromethane

Concen: 47.979 ug/l

RT: 7.640 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY022387.D

Acq: 22 May 2025 11:48

Instrument :

MSVOA_Y

ClientSampleId :

LAW-25-0077

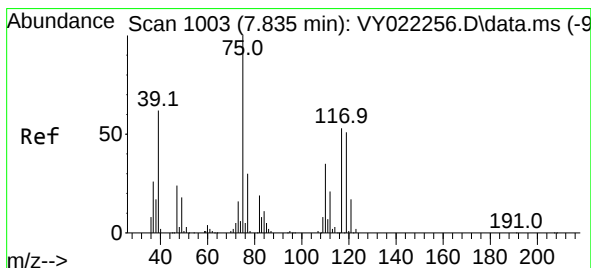
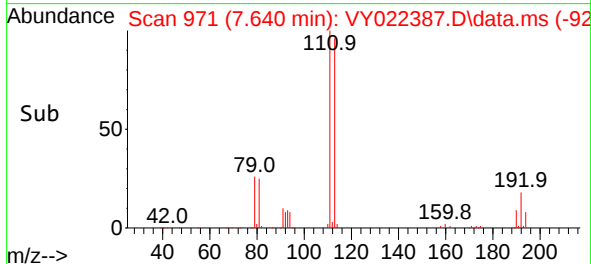
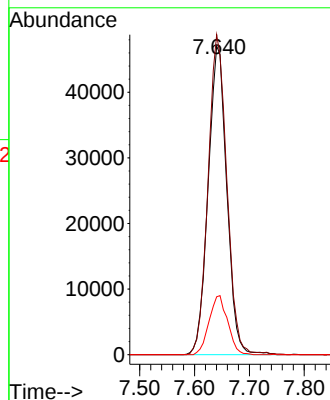
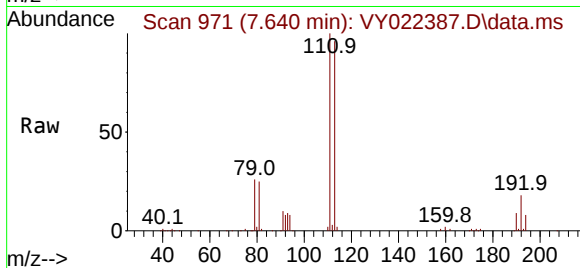
Tgt Ion:113 Resp: 110971

Ion Ratio Lower Upper

113 100

111 104.5 82.6 123.8

192 19.1 15.2 22.8



#36

1,1-Dichloropropene

Concen: 5.331 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.122 min

Lab File: VY022387.D

Acq: 22 May 2025 11:48

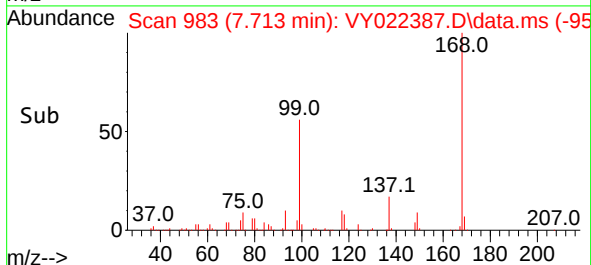
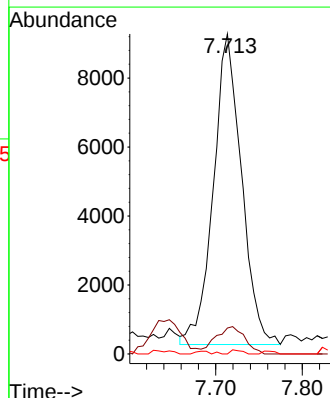
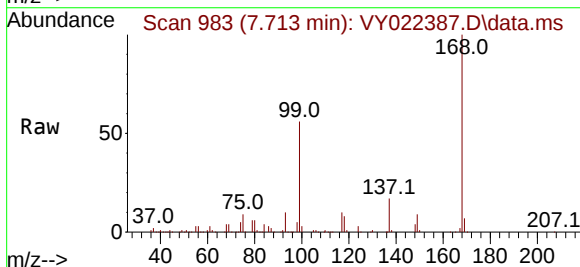
Tgt Ion: 75 Resp: 20310

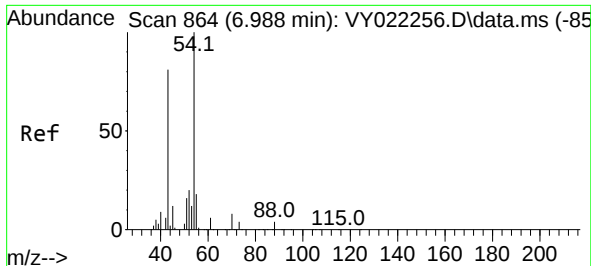
Ion Ratio Lower Upper

75 100

110 9.0 16.6 49.8#

77 0.5 24.6 37.0#





#37

Ethyl Acetate

Concen: 4.597 ug/l

RT: 6.903 min Scan# 81

Delta R.T. -0.085 min

Lab File: VY022387.D

Acq: 22 May 2025 11:48

Instrument :

MSVOA_Y

ClientSampleId :

LAW-25-0077

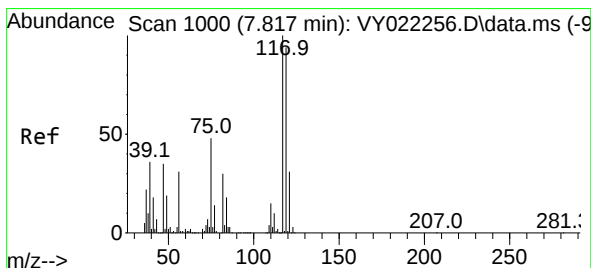
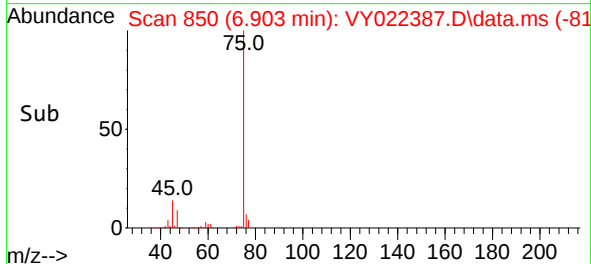
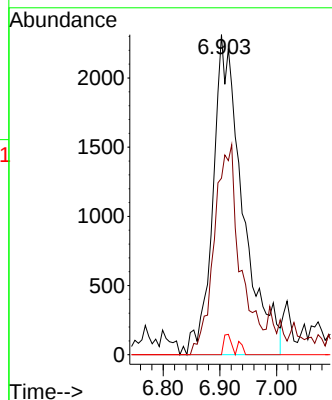
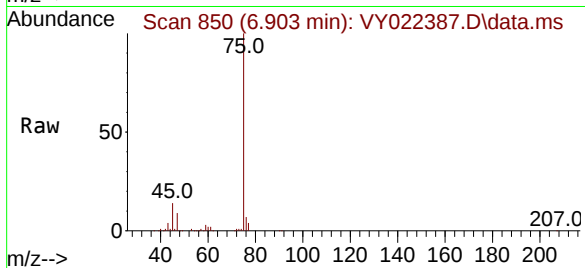
Tgt Ion: 43 Resp: 8426

Ion Ratio Lower Upper

43 100

61 57.3 10.2 15.2#

70 1.6 7.6 11.4#



#38

Carbon Tetrachloride

Concen: 5.797 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.103 min

Lab File: VY022387.D

Acq: 22 May 2025 11:48

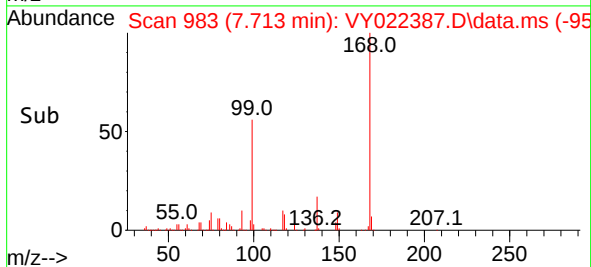
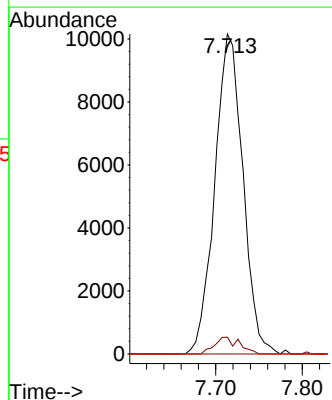
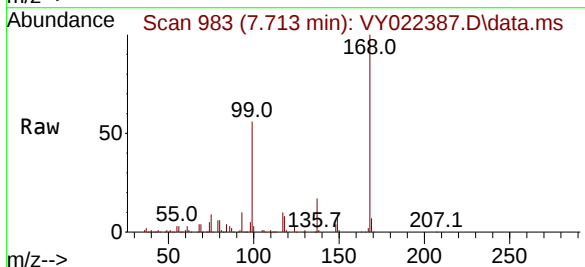
Tgt Ion: 117 Resp: 22861

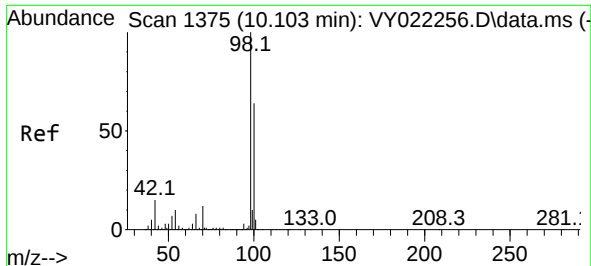
Ion Ratio Lower Upper

117 100

119 5.2 75.3 112.9#

121 0.0 24.7 37.1#

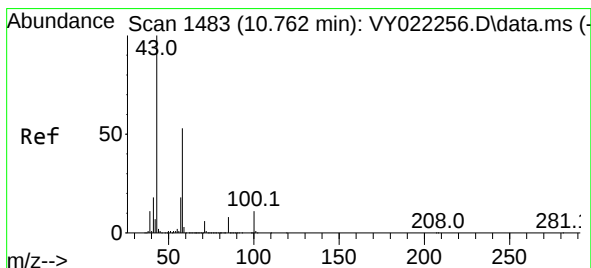
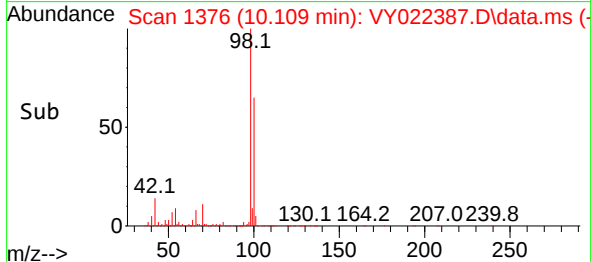
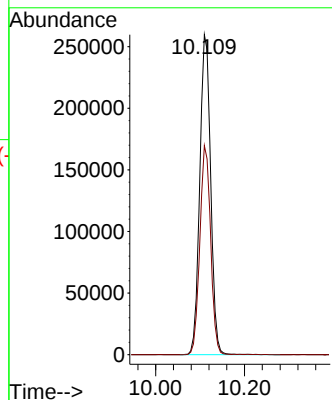
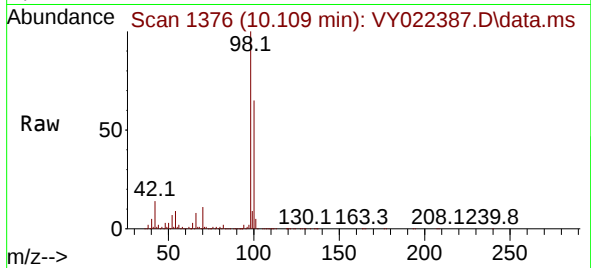




#50
Toluene-d8
Concen: 46.719 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022387.D
Acq: 22 May 2025 11:48

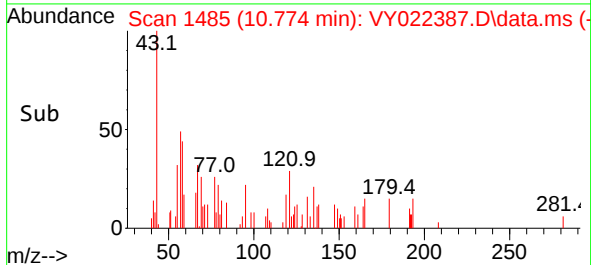
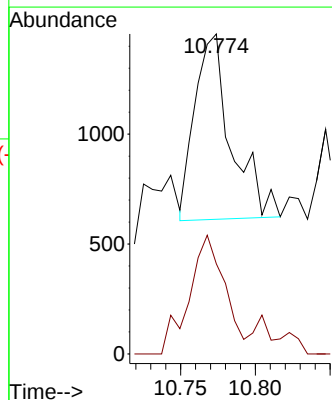
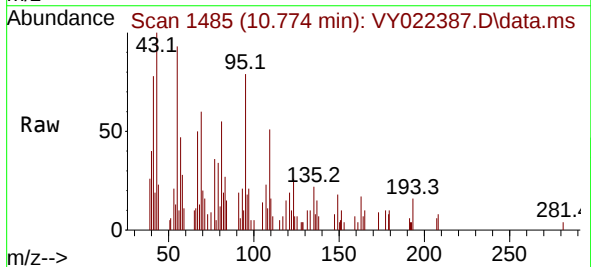
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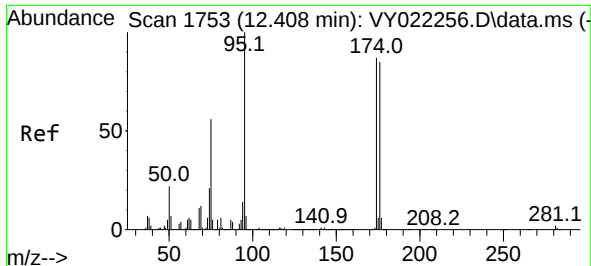
Tgt Ion: 98 Resp: 442550
Ion Ratio Lower Upper
98 100
100 64.8 51.8 77.8



#59
2-Hexanone
Concen: 1.086 ug/l
RT: 10.774 min Scan# 1485
Delta R.T. 0.012 min
Lab File: VY022387.D
Acq: 22 May 2025 11:48

Tgt Ion: 43 Resp: 1428
Ion Ratio Lower Upper
43 100
58 62.8 26.1 78.3

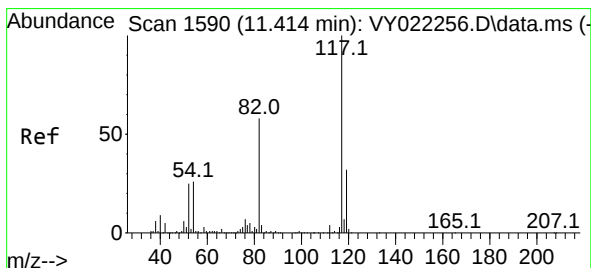
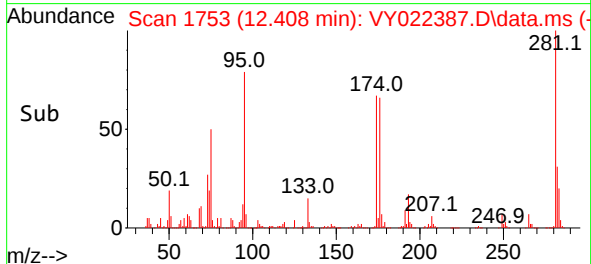
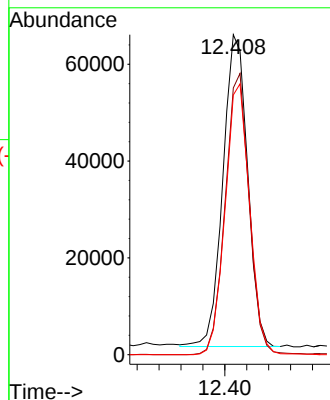
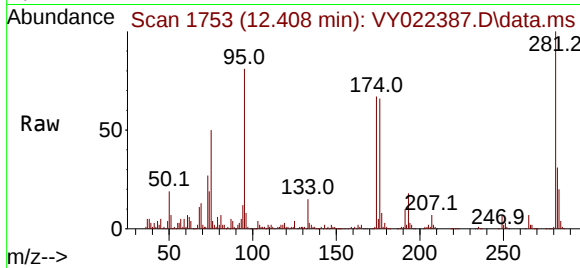




#62
4-Bromofluorobenzene
Concen: 33.590 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY022387.D
Acq: 22 May 2025 11:48

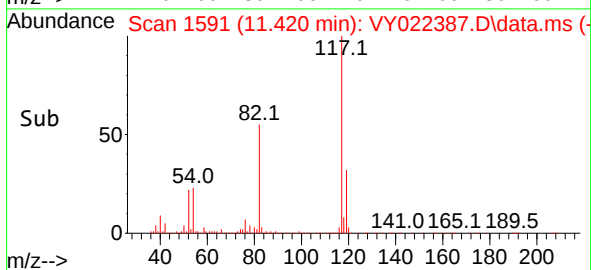
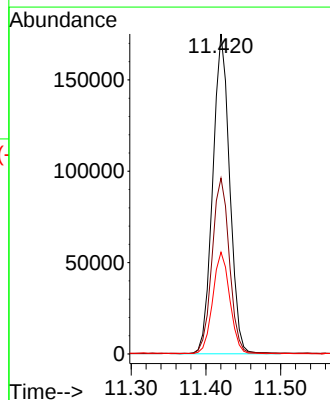
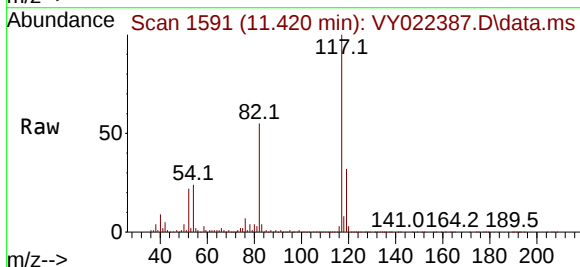
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0077

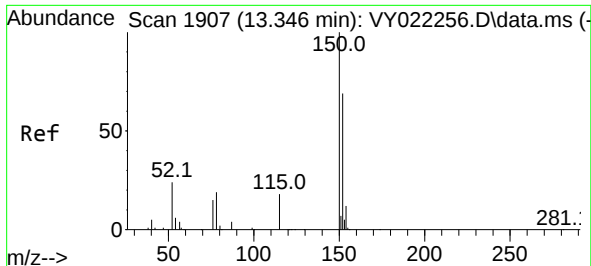
Tgt Ion: 95 Resp: 100855
Ion Ratio Lower Upper
95 100
174 87.5 0.0 166.8
176 86.1 0.0 160.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY022387.D
Acq: 22 May 2025 11:48

Tgt Ion: 117 Resp: 274774
Ion Ratio Lower Upper
117 100
82 54.8 46.6 70.0
119 31.7 25.8 38.6

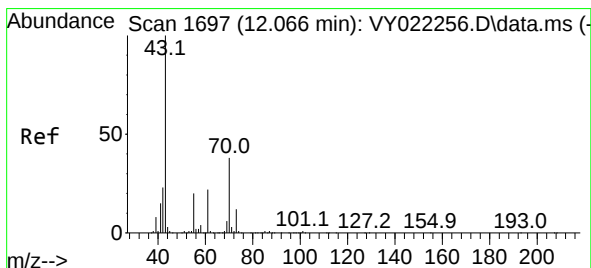
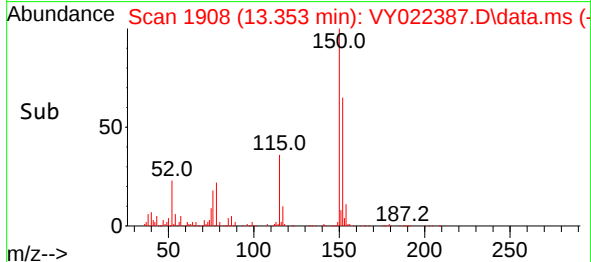
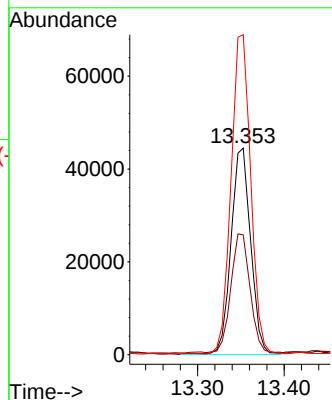
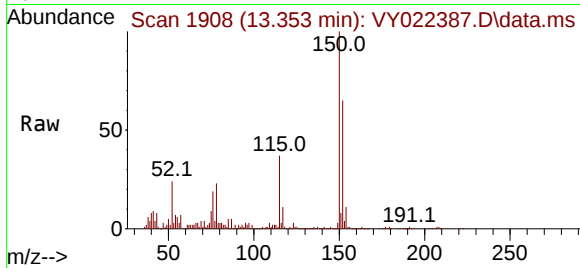




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY022387.D
Acq: 22 May 2025 11:48

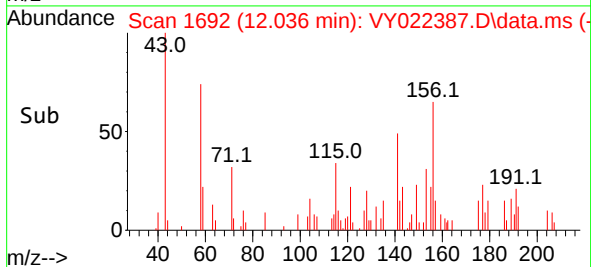
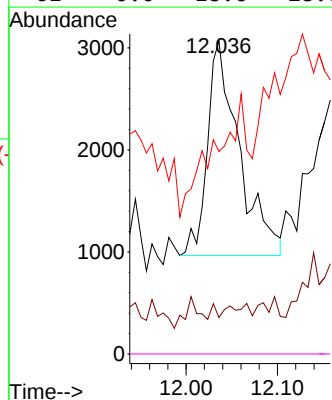
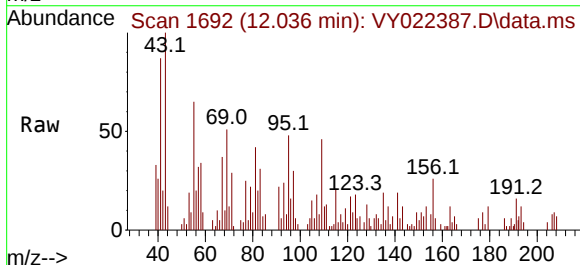
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0077

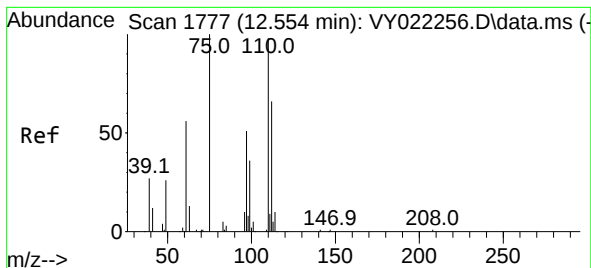
Tgt Ion:152 Resp: 69919
Ion Ratio Lower Upper
152 100
115 57.7 29.4 88.2
150 154.7 0.0 353.8



#74
N-ethyl acetate
Concen: 3.048 ug/l
RT: 12.036 min Scan# 1692
Delta R.T. -0.030 min
Lab File: VY022387.D
Acq: 22 May 2025 11:48

Tgt Ion: 43 Resp: 5050
Ion Ratio Lower Upper
43 100
70 1.2 31.4 47.0#
55 0.0 17.0 25.6#
61 0.0 18.6 28.0#





#76

1,2,3-Trichloropropane

Concen: 91.445 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY022387.D

Acq: 22 May 2025 11:48

Instrument :

MSVOA_Y

ClientSampleId :

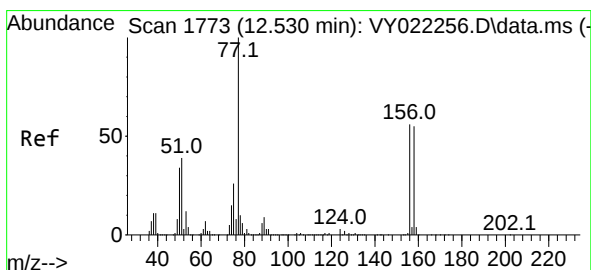
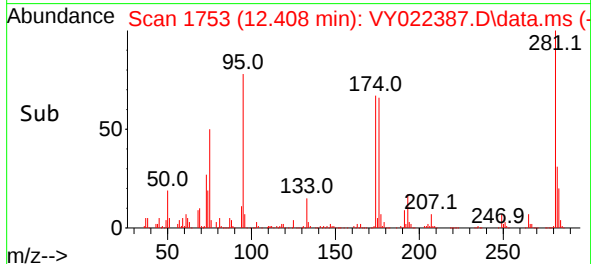
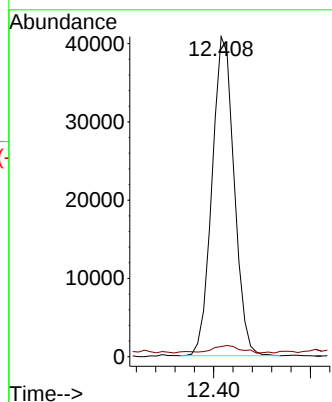
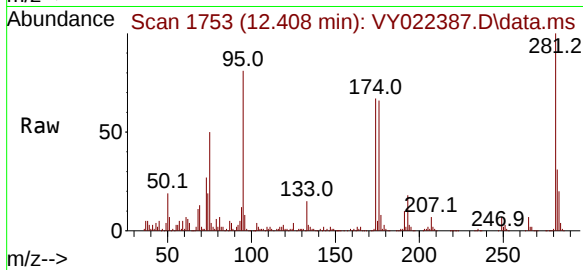
LAW-25-0077

Tgt Ion: 75 Resp: 64775

Ion Ratio Lower Upper

75 100

77 2.6 0.0 0.0#



#77

Bromobenzene

Concen: 4.657 ug/l

RT: 12.633 min Scan# 1790

Delta R.T. 0.104 min

Lab File: VY022387.D

Acq: 22 May 2025 11:48

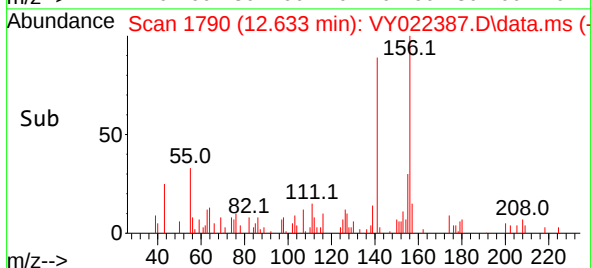
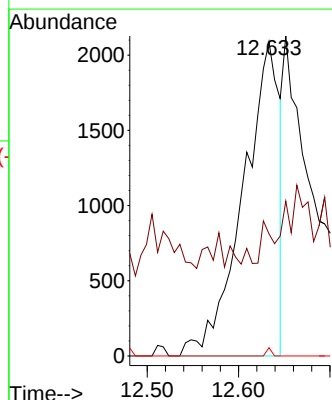
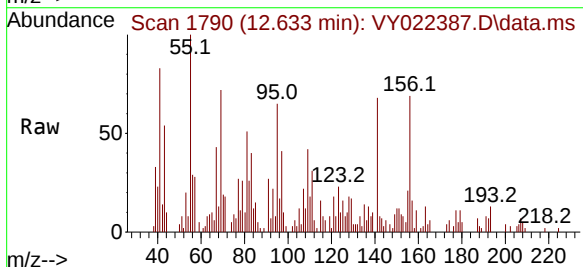
Tgt Ion: 156 Resp: 5761

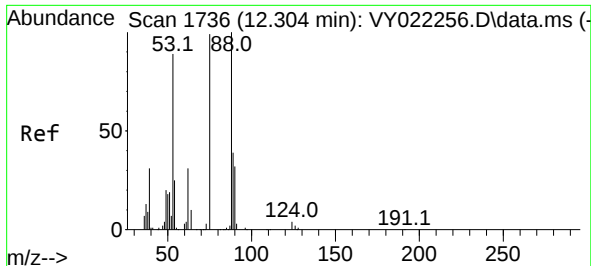
Ion Ratio Lower Upper

156 100

77 3.9 94.5 283.6#

158 0.3 48.4 145.3#

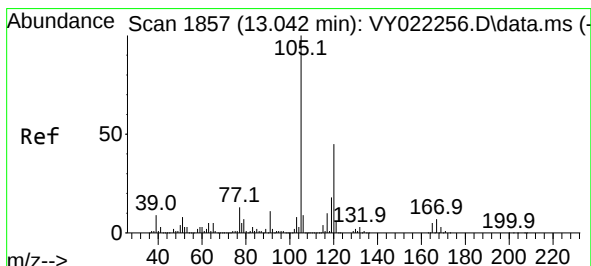
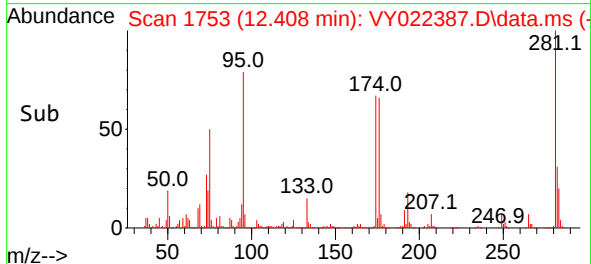
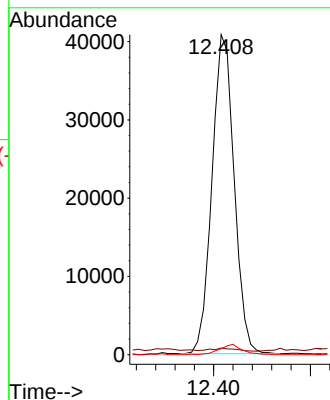
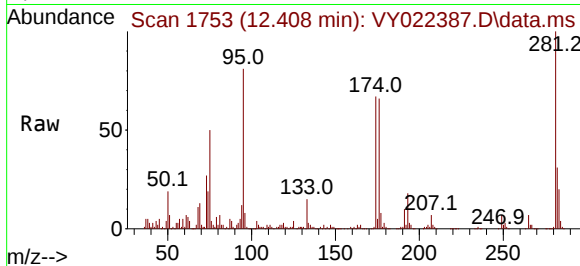




#81
trans-1,4-Dichloro-2-butene
Concen: 185.243 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.104 min
Lab File: VY022387.D
Acq: 22 May 2025 11:48

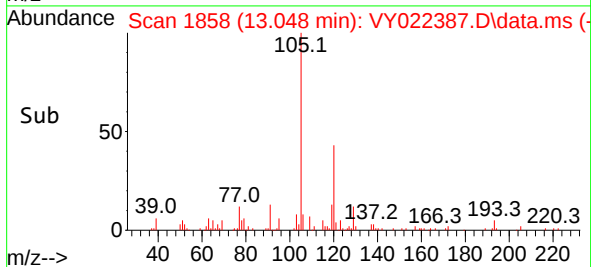
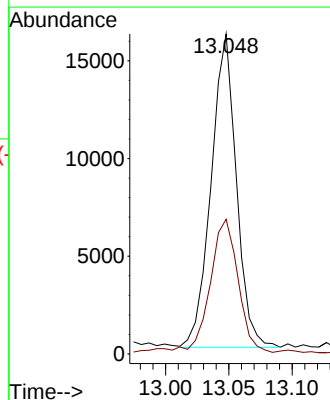
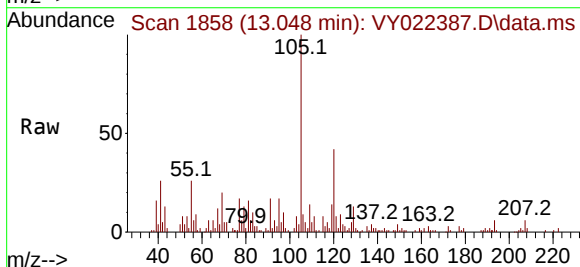
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0077

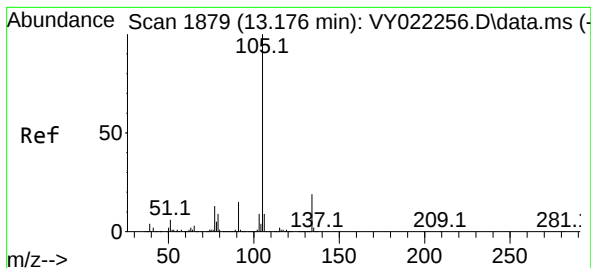
Tgt Ion: 75 Resp: 64775
Ion Ratio Lower Upper
75 100
53 1.0 75.8 113.8#
89 3.3 36.2 54.2#



#84
1,2,4-Trimethylbenzene
Concen: 4.797 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY022387.D
Acq: 22 May 2025 11:48

Tgt Ion:105 Resp: 22267
Ion Ratio Lower Upper
105 100
120 46.5 22.3 66.9





#85

sec-Butylbenzene

Concen: 1.122 ug/l

RT: 13.182 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY022387.D

Acq: 22 May 2025 11:48

Instrument :

MSVOA_Y

ClientSampleId :

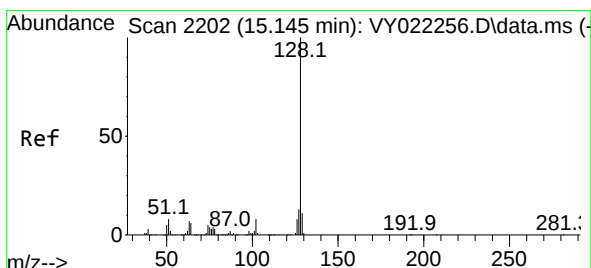
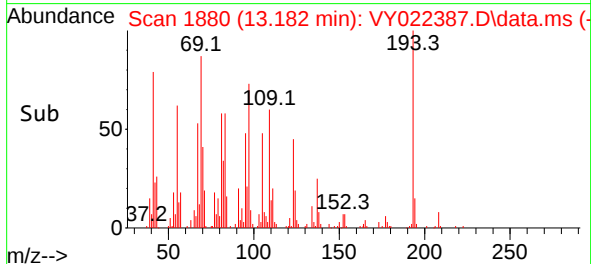
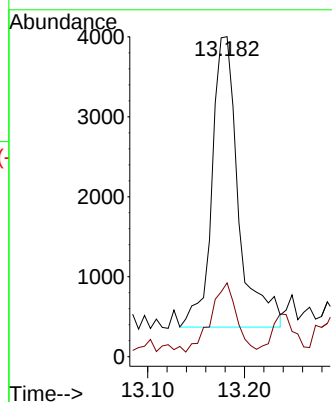
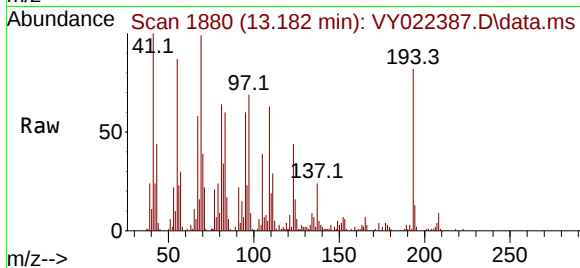
LAW-25-0077

Tgt Ion:105 Resp: 6925

Ion Ratio Lower Upper

105 100

134 23.0 9.8 29.5



#95

Naphthalene

Concen: 4.192 ug/l

RT: 15.151 min Scan# 2203

Delta R.T. 0.006 min

Lab File: VY022387.D

Acq: 22 May 2025 11:48

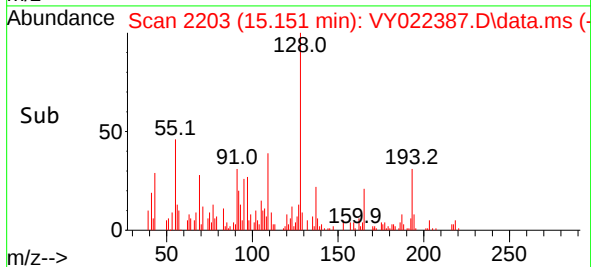
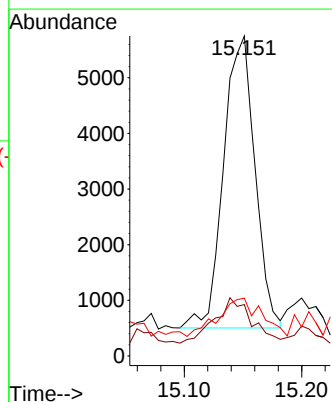
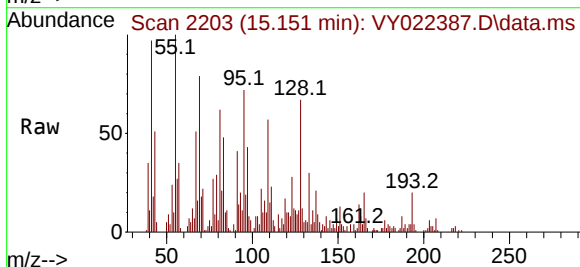
Tgt Ion:128 Resp: 9747

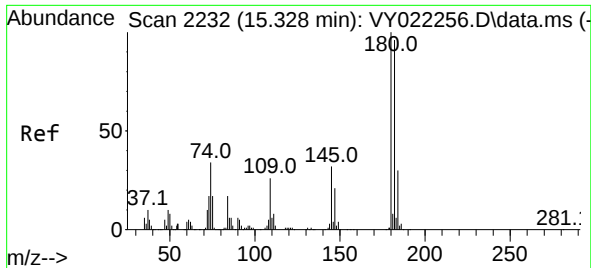
Ion Ratio Lower Upper

128 100

127 18.4 10.2 15.2#

129 17.9 8.8 13.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.321 ug/l
 RT: 15.352 min Scan# 21
 Delta R.T. 0.025 min
 Lab File: VY022387.D
 Acq: 22 May 2025 11:48

Instrument :
 MSVOA_Y
 ClientSampleId :
 LAW-25-0077

Tgt Ion	Ratio	Lower	Upper
180	100		
182	8.9	47.1	141.3#
145	87.2	15.9	47.6#

