

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022804.D
 Acq On : 24 Jun 2025 17:50
 Operator : SY/MD
 Sample : Q2403-03
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 LAW-25-0093

Quant Time: Jun 25 01:29:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

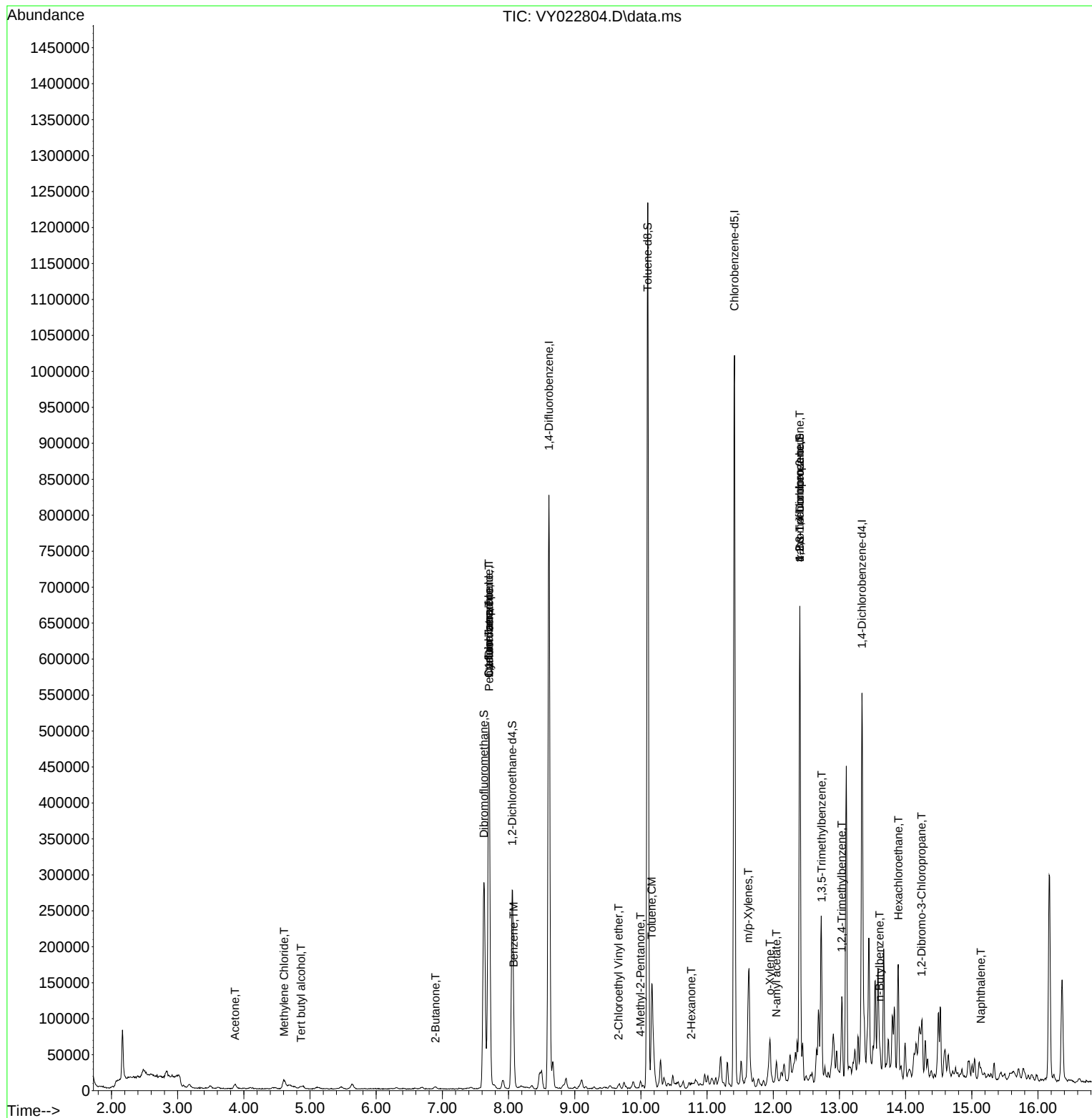
Internal Standards						
1) Pentafluorobenzene	7.707	168	379681	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	684135	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	533264	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	116879	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	210146	49.591	ug/l	-0.01
Spiked Amount 50.000	Range 50 - 163		Recovery =	99.180%		
35) Dibromofluoromethane	7.628	113	205727	49.447	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery =	98.900%		
50) Toluene-d8	10.103	98	774486	46.911	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	93.820%		
62) 4-Bromofluorobenzene	12.402	95	190302	35.856	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	71.720%		
Target Compounds						Qvalue
11) Tert butyl alcohol	4.866	59	5169	18.345	ug/l #	86
16) Acetone	3.867	43	11099	13.857	ug/l	90
20) Methylene Chloride	4.610	84	8117	1.605	ug/l #	88
25) 2-Butanone	6.896	43	1686	1.446	ug/l	99
31) Cyclohexane	7.701	56	11915	1.637	ug/l #	22
36) 1,1-Dichloropropene	7.701	75	32103	5.091	ug/l #	51
38) Carbon Tetrachloride	7.701	117	39461	5.930	ug/l #	17
40) Benzene	8.079	78	19890	1.026	ug/l	95
51) 4-Methyl-2-Pentanone	9.994	43	6094	2.120	ug/l	96
52) Toluene	10.164	92	58118	4.751	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.664	63	20	15.663	ug/l #	48
59) 2-Hexanone	10.762	43	2579	1.320	ug/l #	61
68) m/p-Xylenes	11.621	106	32441	4.076	ug/l	95
69) o-Xylene	11.950	106	12390	1.652	ug/l	91
74) N-amyl acetate	12.048	43	7726	3.982	ug/l #	62
76) 1,2,3-Trichloropropane	12.402	75	105877	88.731	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.731	105	13709	1.965	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.402	75	105877	224.169	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.036	105	59574	8.527	ug/l	97
89) n-Butylbenzene	13.609	91	14741	2.034	ug/l #	63
90) Hexachloroethane	13.889	117	7237	4.716	ug/l #	16
92) 1,2-Dibromo-3-Chloropr...	14.243	75	456	1.930	ug/l #	2
95) Naphthalene	15.139	128	11231	3.172	ug/l #	94

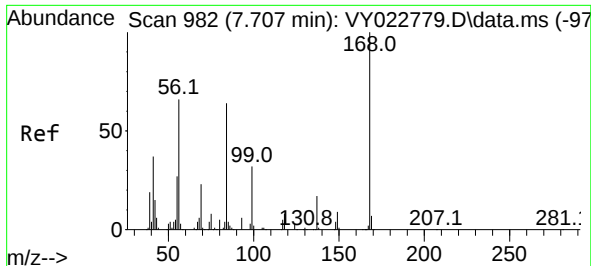
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
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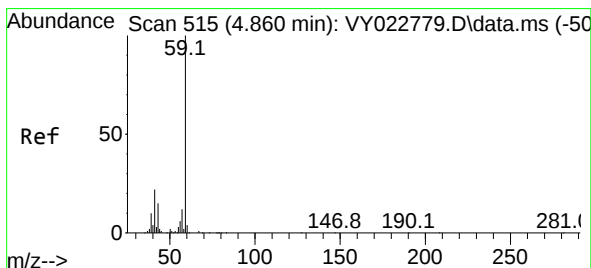
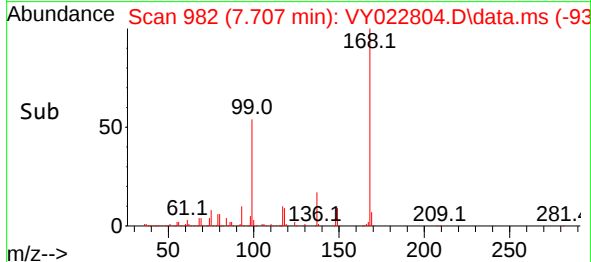
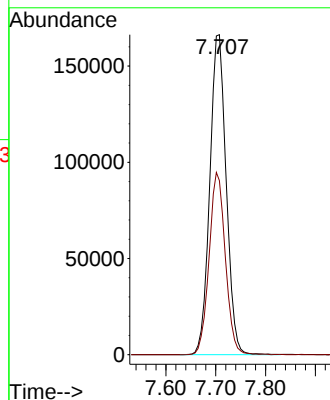
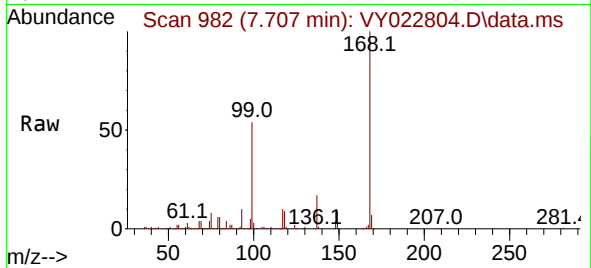




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.006 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

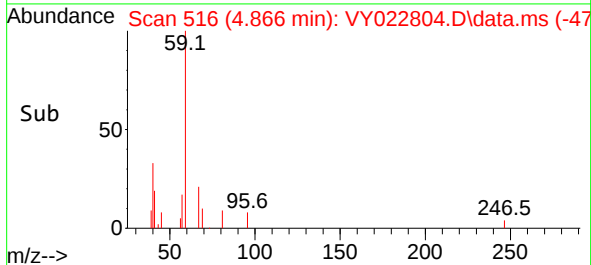
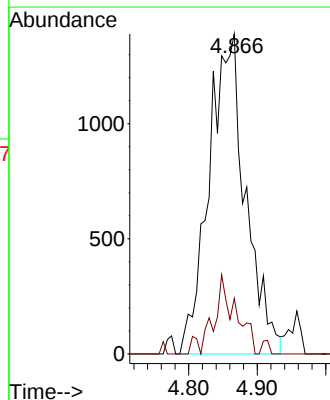
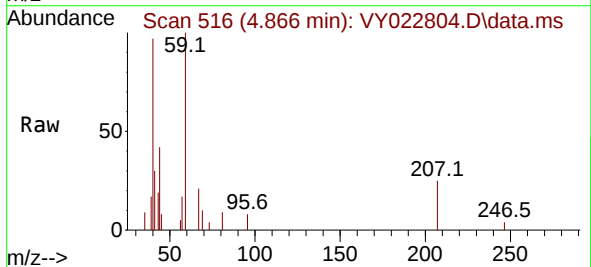
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0093

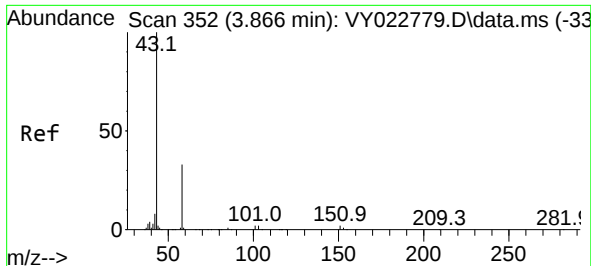
Tgt Ion:168 Resp: 379681
Ion Ratio Lower Upper
168 100
99 54.4 44.3 66.5



#11
Tert butyl alcohol
Concen: 18.345 ug/l
RT: 4.866 min Scan# 516
Delta R.T. -0.018 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

Tgt Ion: 59 Resp: 5169
Ion Ratio Lower Upper
59 100
57 15.3 8.0 12.0#

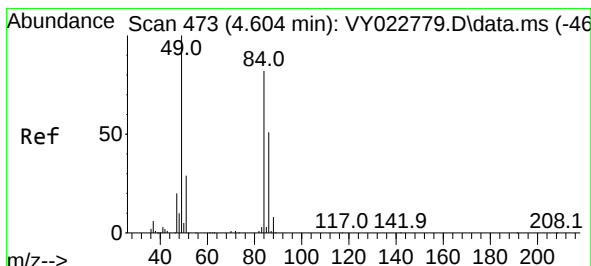
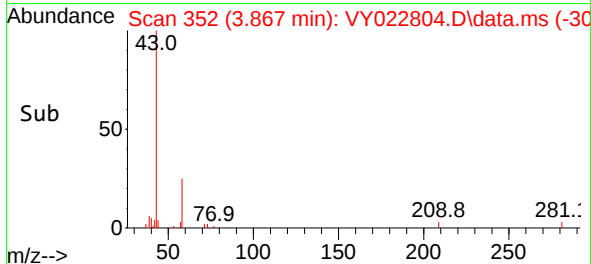
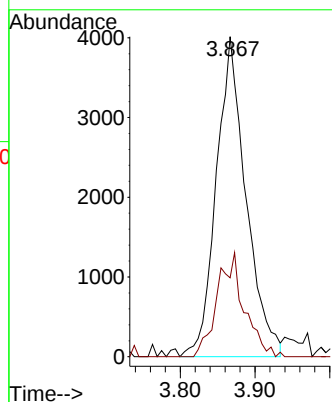
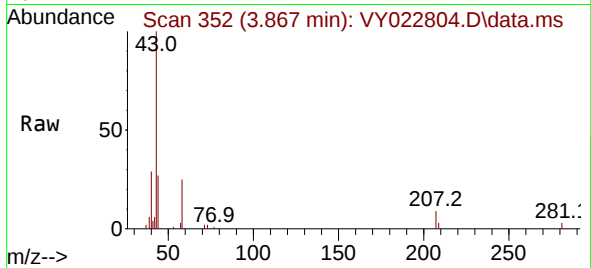




#16
Acetone
Concen: 13.857 ug/l
RT: 3.867 min Scan# 311
Delta R.T. -0.012 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

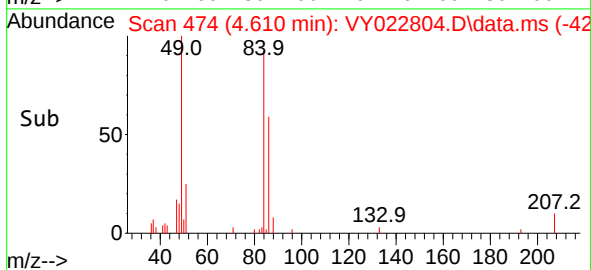
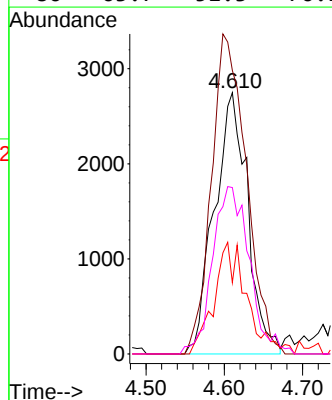
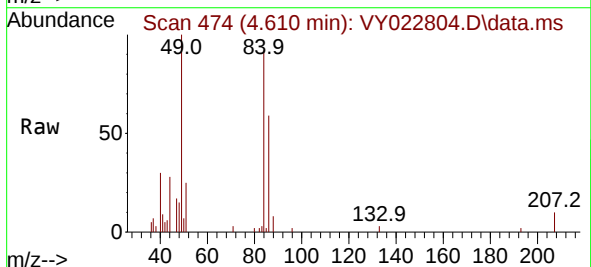
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0093

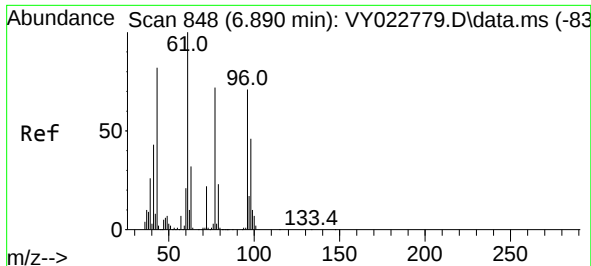
Tgt Ion: 43 Resp: 11099
Ion Ratio Lower Upper
43 100
58 24.7 24.0 36.0



#20
Methylene Chloride
Concen: 1.605 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.012 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

Tgt Ion: 84 Resp: 8117
Ion Ratio Lower Upper
84 100
49 108.6 101.9 152.9
51 27.3 29.8 44.8#
86 63.7 51.3 76.9

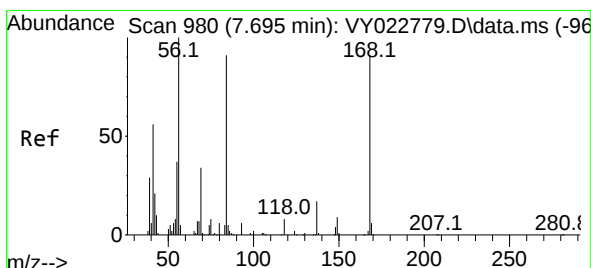
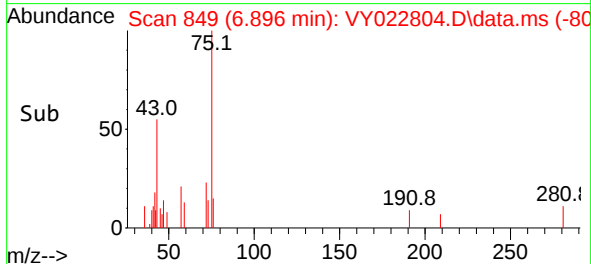
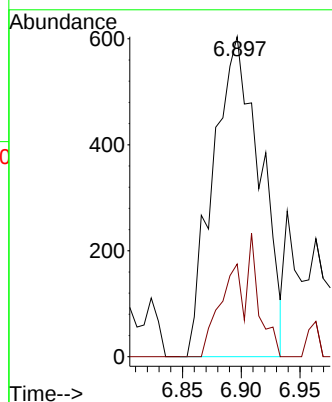
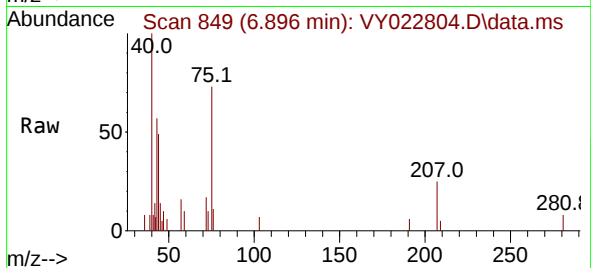




#25
2-Butanone
Concen: 1.446 ug/l
RT: 6.896 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

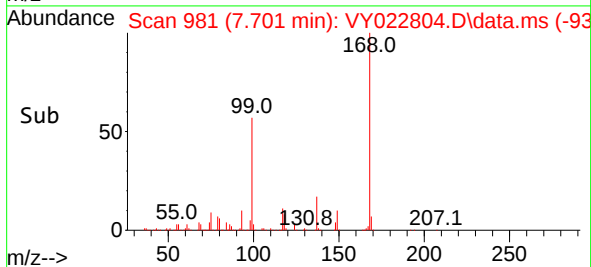
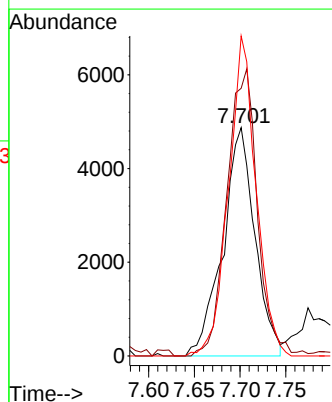
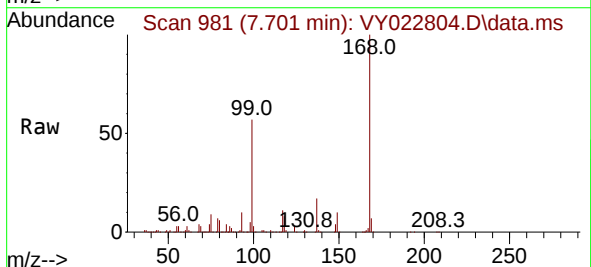
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0093

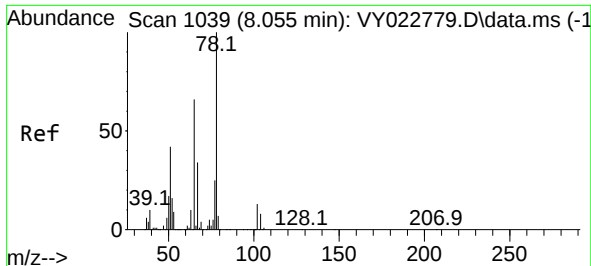
Tgt Ion: 43 Resp: 1686
Ion Ratio Lower Upper
43 100
72 29.0 22.9 34.3



#31
Cyclohexane
Concen: 1.637 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.006 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

Tgt Ion: 56 Resp: 11915
Ion Ratio Lower Upper
56 100
69 117.2 27.0 40.6#
84 140.1 72.6 109.0#





#33

1,2-Dichloroethane-d4

Concen: 49.591 ug/l

RT: 8.055 min Scan# 1039

Delta R.T. -0.012 min

Lab File: VY022804.D

Acq: 24 Jun 2025 17:50

Instrument :

MSVOA_Y

ClientSampleId :

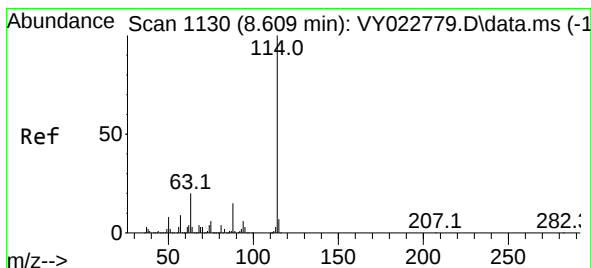
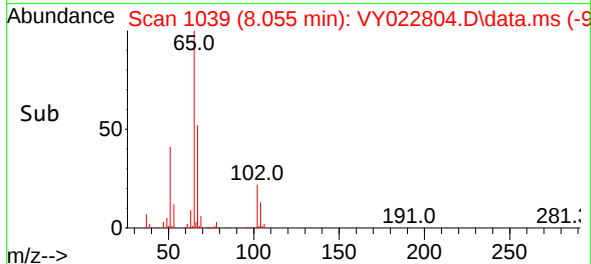
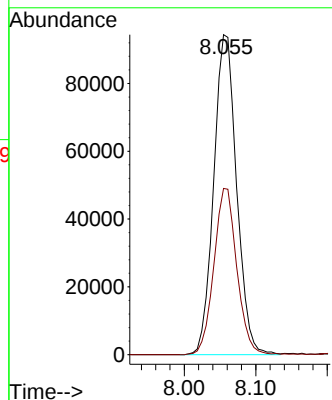
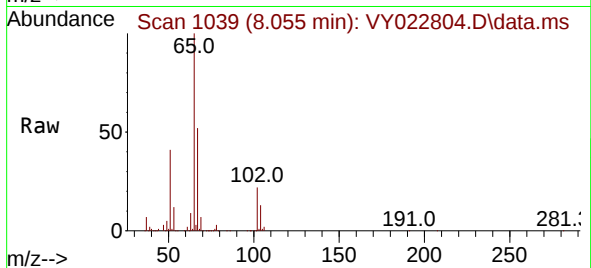
LAW-25-0093

Tgt Ion: 65 Resp: 210146

Ion Ratio Lower Upper

65 100

67 52.2 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022804.D

Acq: 24 Jun 2025 17:50

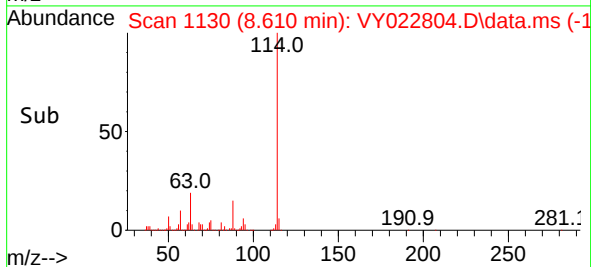
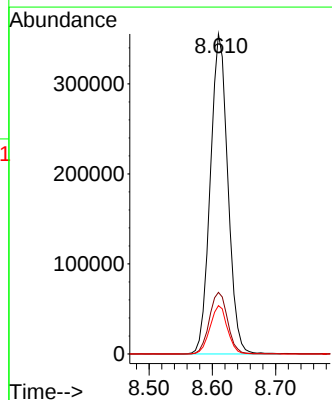
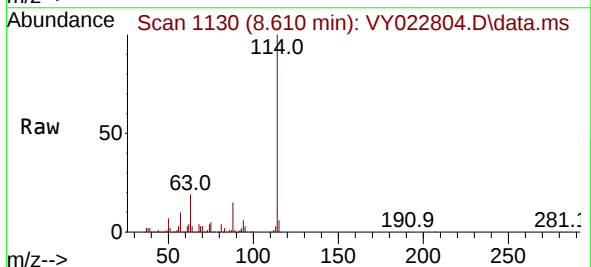
Tgt Ion: 114 Resp: 684135

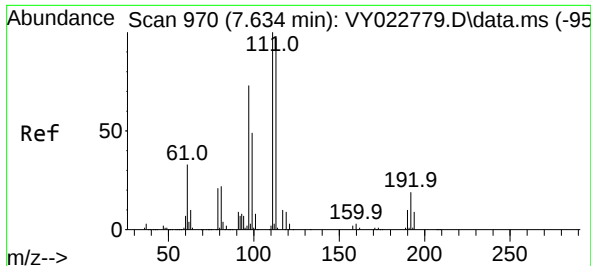
Ion Ratio Lower Upper

114 100

63 19.3 0.0 40.8

88 15.1 0.0 27.8

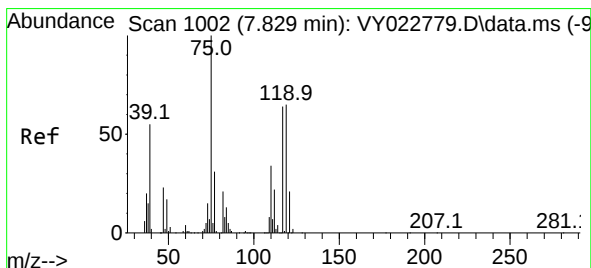
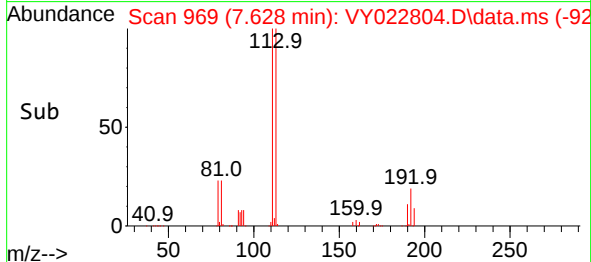
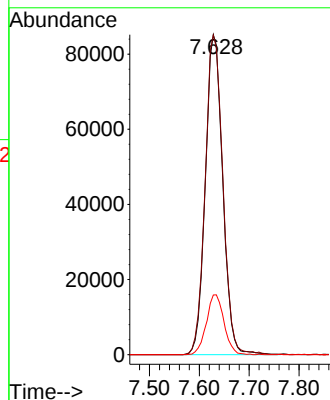
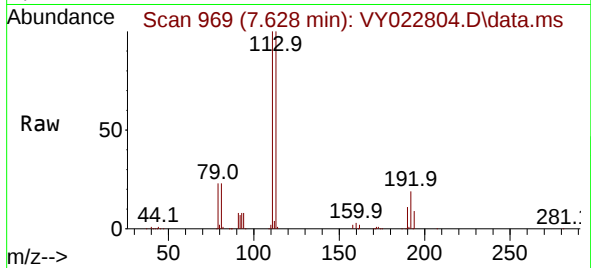




#35
Dibromofluoromethane
Concen: 49.447 ug/l
RT: 7.628 min Scan# 911
Delta R.T. -0.012 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

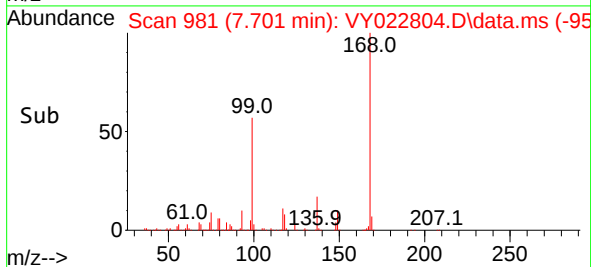
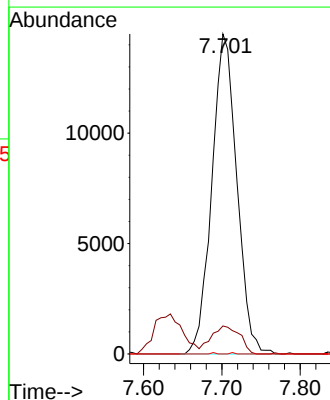
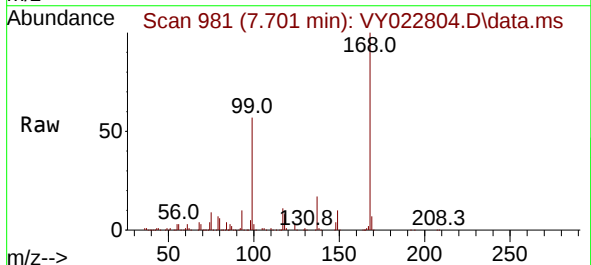
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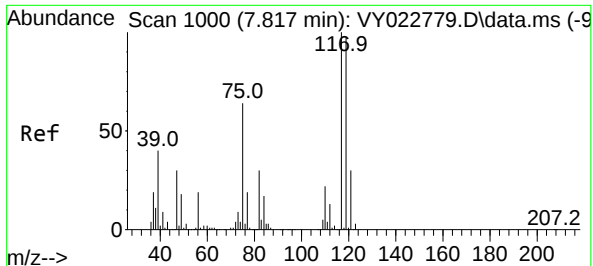
Tgt Ion:113 Resp: 205727
Ion Ratio Lower Upper
113 100
111 102.1 81.1 121.7
192 19.1 14.2 21.2



#36
1,1-Dichloropropene
Concen: 5.091 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.140 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

Tgt Ion: 75 Resp: 32103
Ion Ratio Lower Upper
75 100
110 10.0 16.9 50.7#
77 0.0 24.8 37.2#

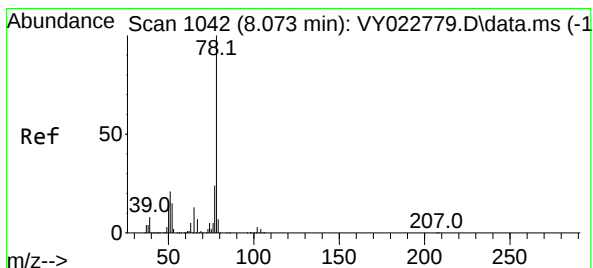
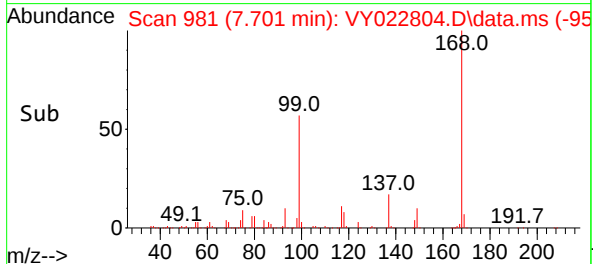
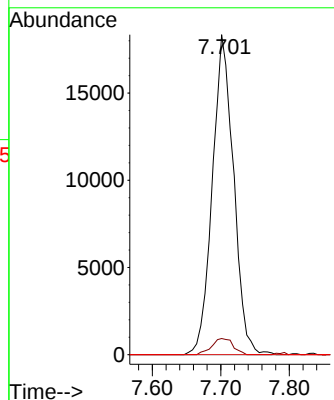
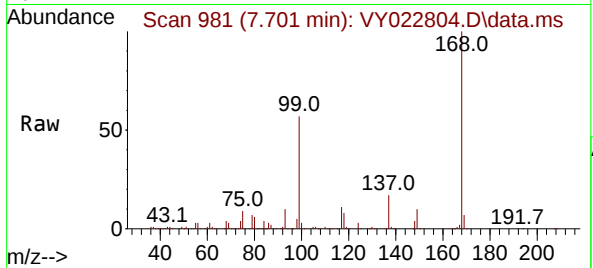




#38
Carbon Tetrachloride
Concen: 5.930 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.122 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

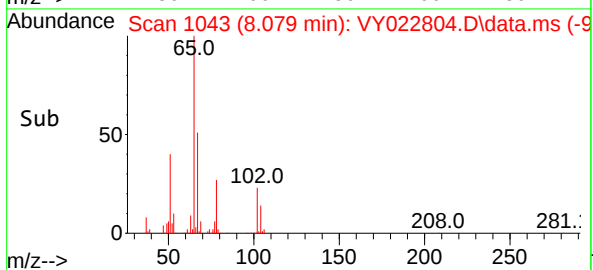
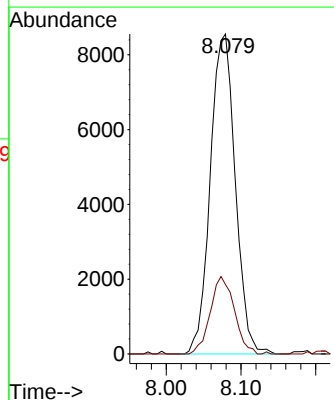
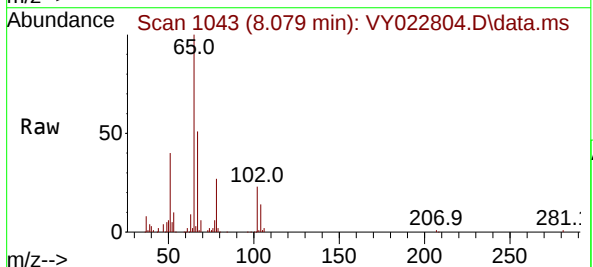
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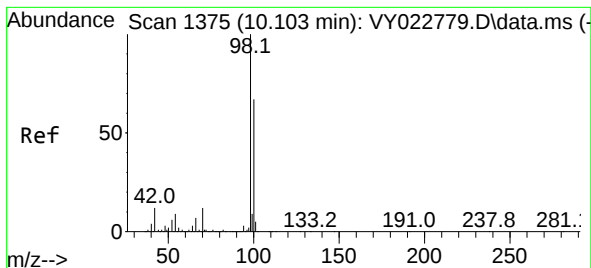
Tgt Ion:117 Resp: 39461
Ion Ratio Lower Upper
117 100
119 5.0 75.0 112.6#
121 0.0 25.0 37.4#



#40
Benzene
Concen: 1.026 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.006 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

Tgt Ion: 78 Resp: 19890
Ion Ratio Lower Upper
78 100
77 21.7 19.3 28.9





#50

Toluene-d8

Concen: 46.911 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY022804.D

Acq: 24 Jun 2025 17:50

Instrument :

MSVOA_Y

ClientSampleId :

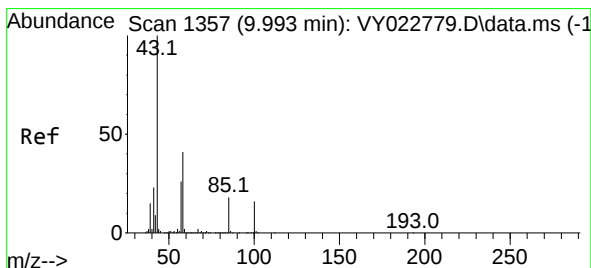
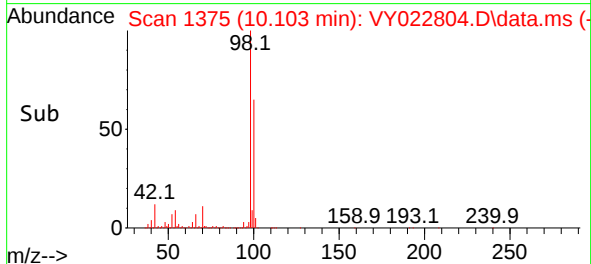
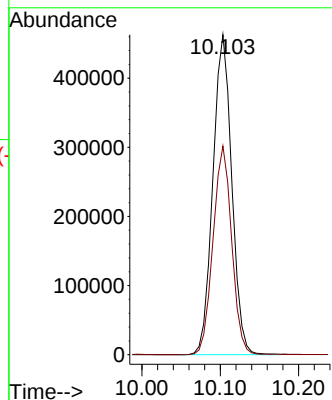
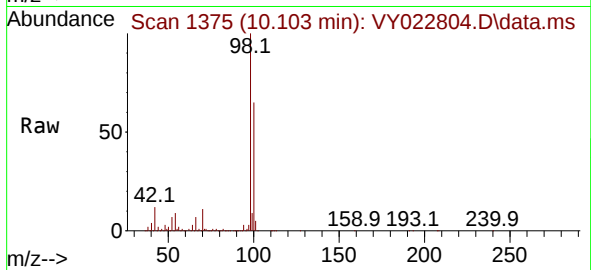
LAW-25-0093

Tgt Ion: 98 Resp: 774486

Ion Ratio Lower Upper

98 100

100 64.6 51.4 77.0



#51

4-Methyl-2-Pentanone

Concen: 2.120 ug/l

RT: 9.994 min Scan# 1357

Delta R.T. -0.006 min

Lab File: VY022804.D

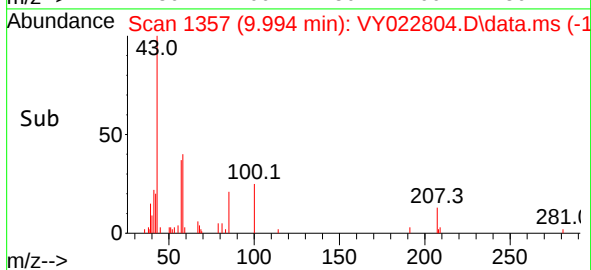
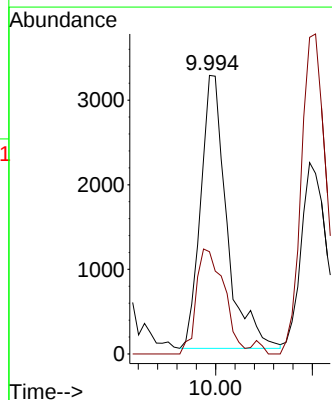
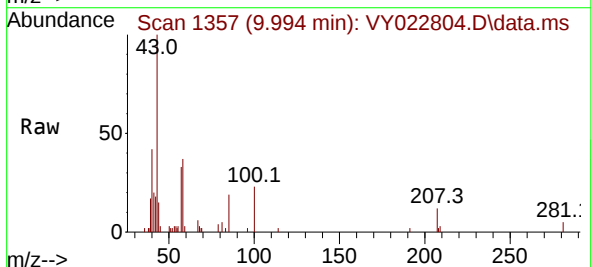
Acq: 24 Jun 2025 17:50

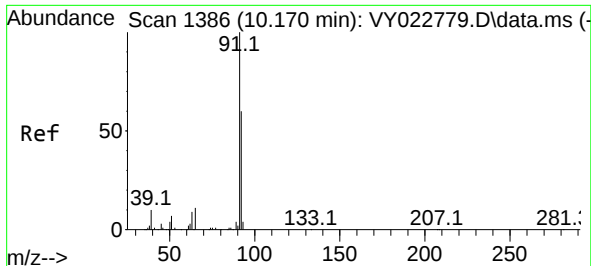
Tgt Ion: 43 Resp: 6094

Ion Ratio Lower Upper

43 100

58 40.7 30.4 45.6

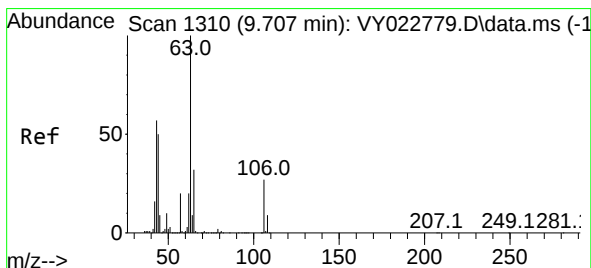
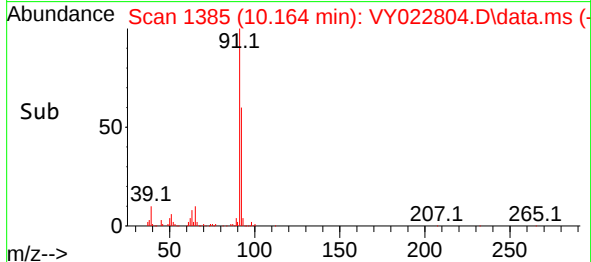
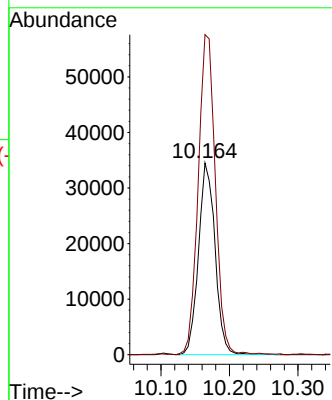
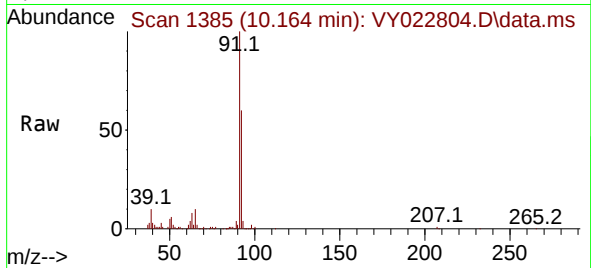




#52
Toluene
Concen: 4.751 ug/l
RT: 10.164 min Scan# 11
Delta R.T. -0.012 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

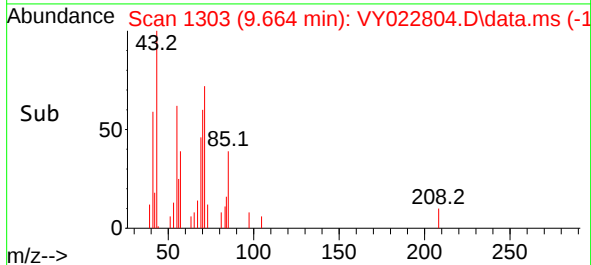
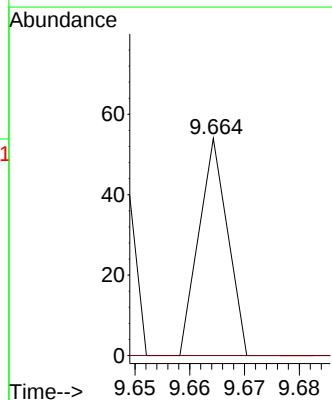
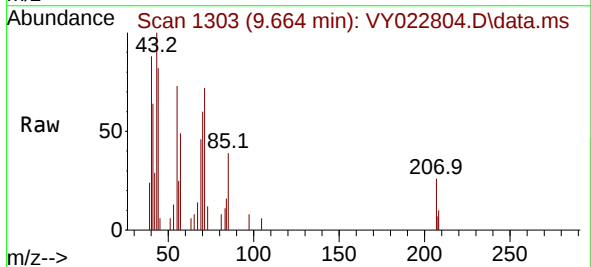
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0093

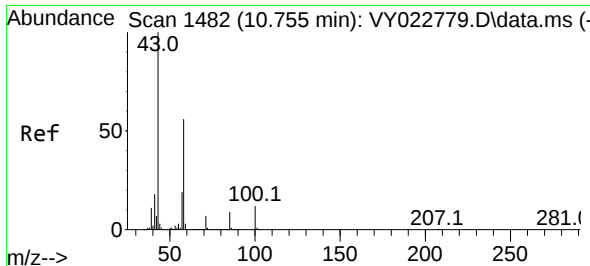
Tgt Ion: 92 Resp: 58118
Ion Ratio Lower Upper
92 100
91 172.7 139.0 208.4



#58
2-Chloroethyl Vinyl ether
Concen: 15.663 ug/l
RT: 9.664 min Scan# 1303
Delta R.T. -0.049 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

Tgt Ion: 63 Resp: 20
Ion Ratio Lower Upper
63 100
106 0.0 21.6 32.4#

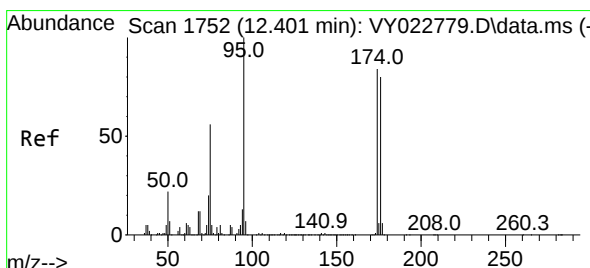
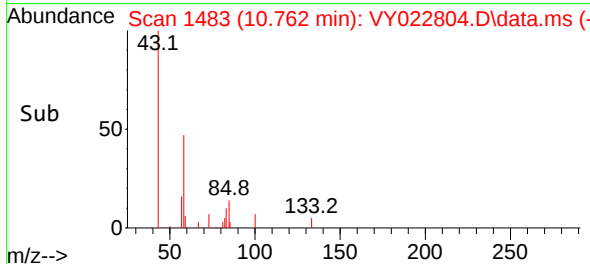
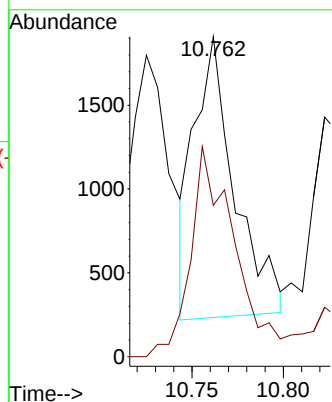
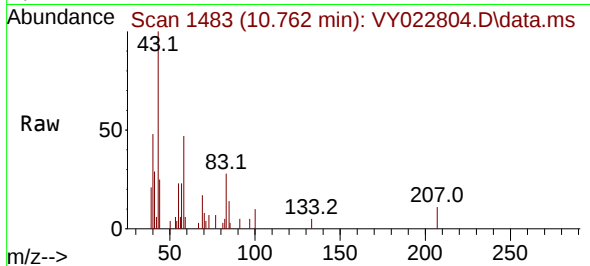




#59
2-Hexanone
Concen: 1.320 ug/l
RT: 10.762 min Scan# 1482
Delta R.T. 0.000 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

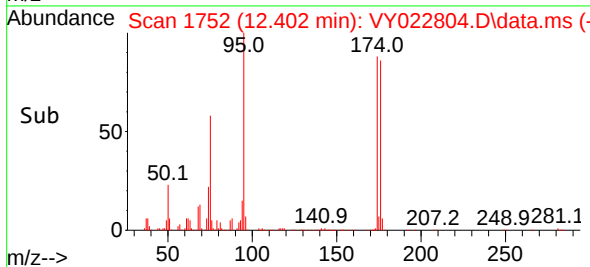
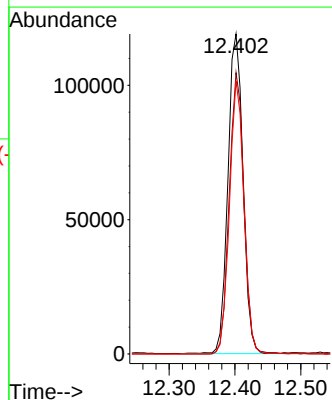
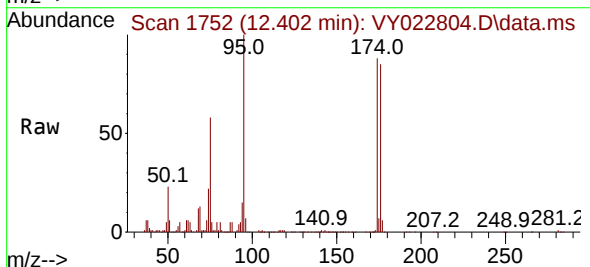
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0093

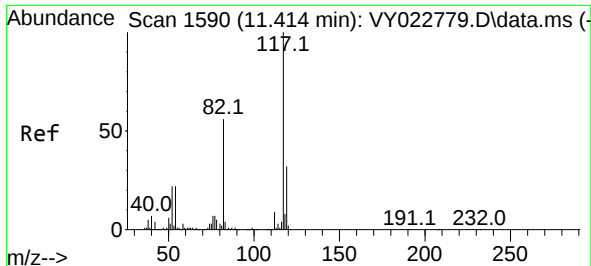
Tgt Ion: 43 Resp: 2579
Ion Ratio Lower Upper
43 100
58 82.2 27.3 81.8#



#62
4-Bromofluorobenzene
Concen: 35.856 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

Tgt Ion: 95 Resp: 190302
Ion Ratio Lower Upper
95 100
174 85.7 0.0 170.0
176 82.0 0.0 166.2

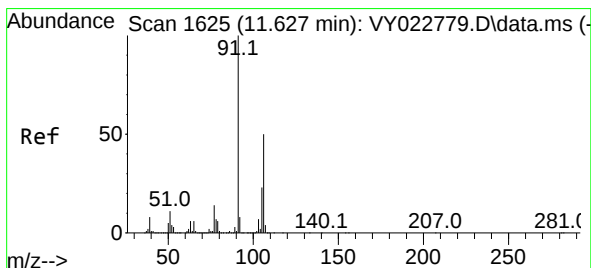
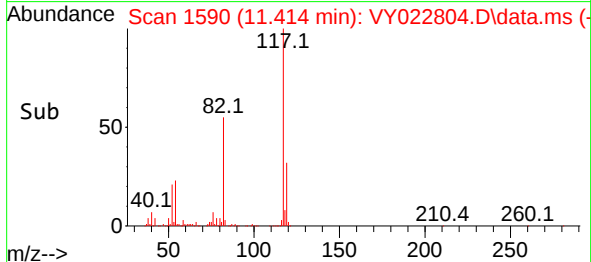
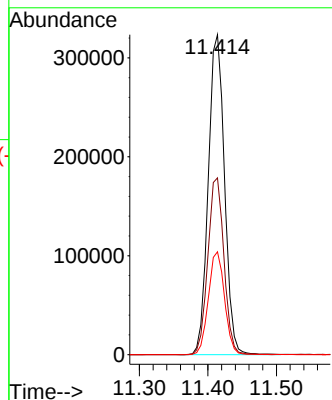
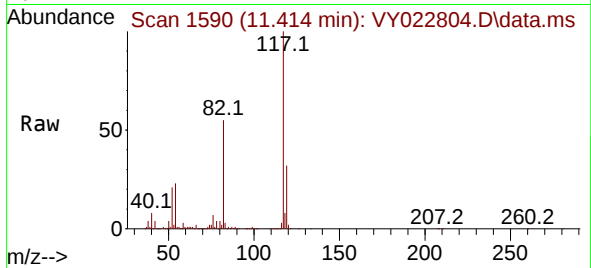




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 117
Delta R.T. -0.006 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

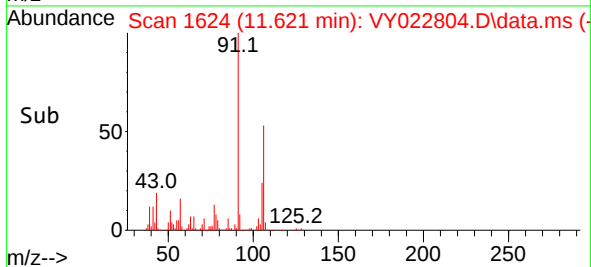
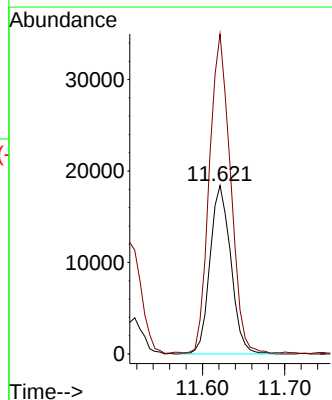
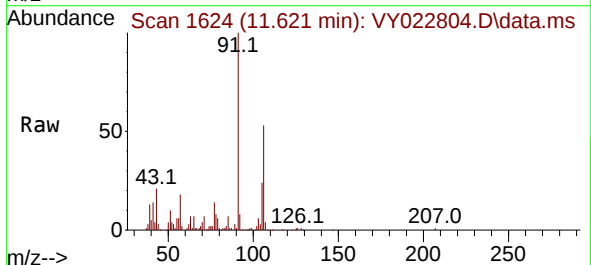
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0093

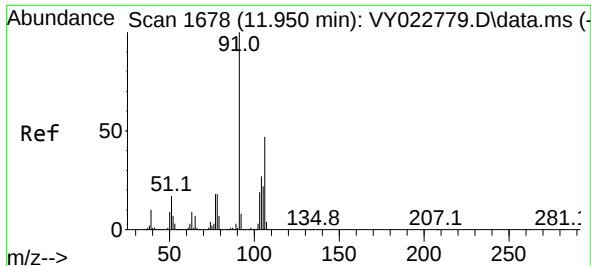
Tgt Ion:117 Resp: 533264
Ion Ratio Lower Upper
117 100
82 55.2 44.6 66.8
119 32.1 25.4 38.0



#68
m/p-Xylenes
Concen: 4.076 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. -0.012 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

Tgt Ion:106 Resp: 32441
Ion Ratio Lower Upper
106 100
91 192.1 159.4 239.0

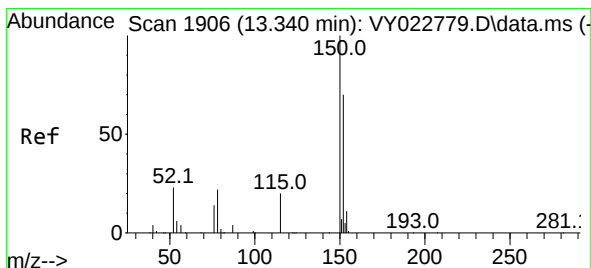
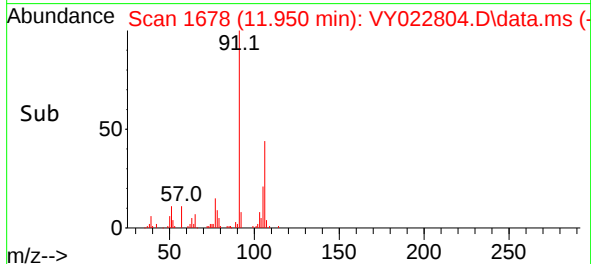
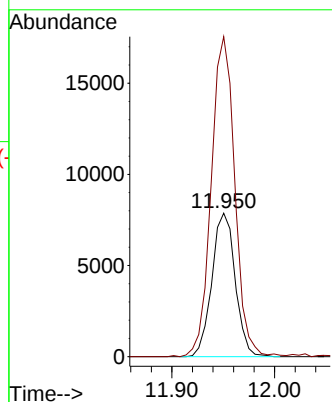
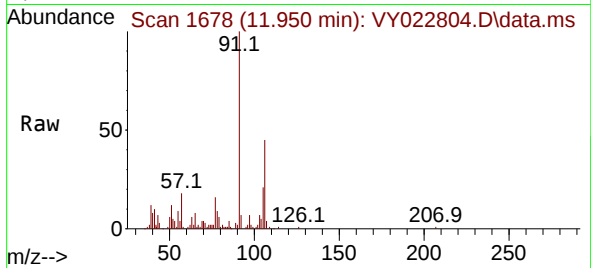




#69
o-Xylene
Concen: 1.652 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. -0.006 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

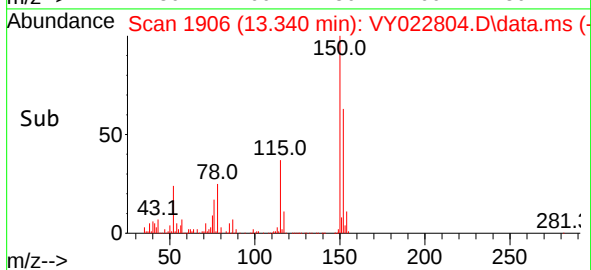
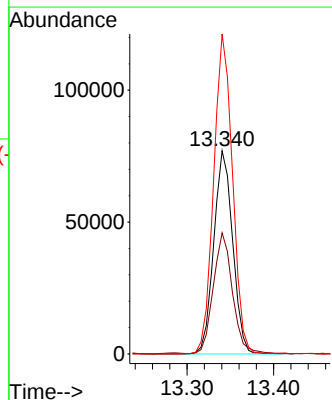
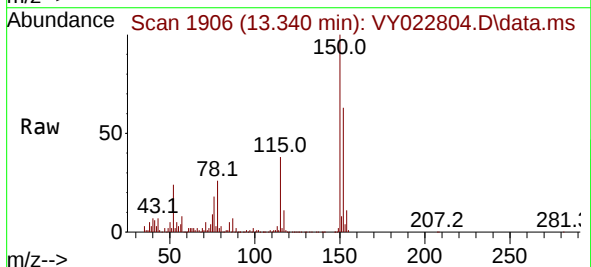
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0093

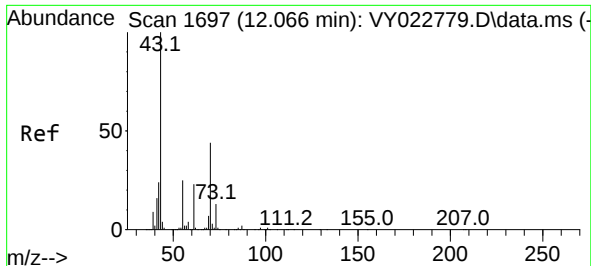
Tgt Ion:106 Resp: 12390
Ion Ratio Lower Upper
106 100
91 225.7 105.8 317.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.006 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

Tgt Ion:152 Resp: 116879
Ion Ratio Lower Upper
152 100
115 60.3 28.9 86.7
150 157.0 0.0 349.6

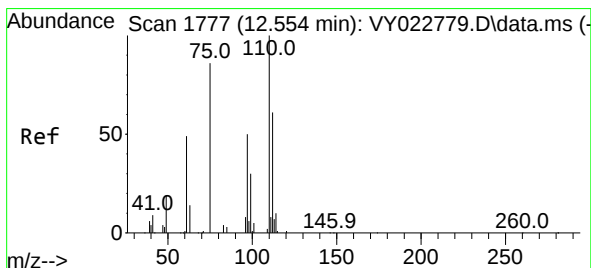
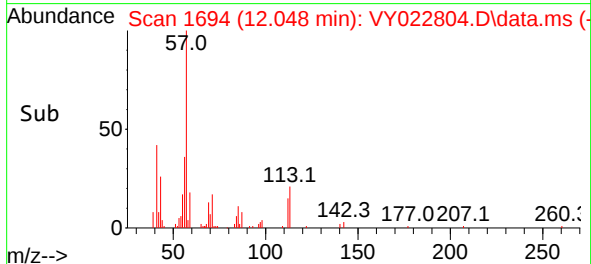
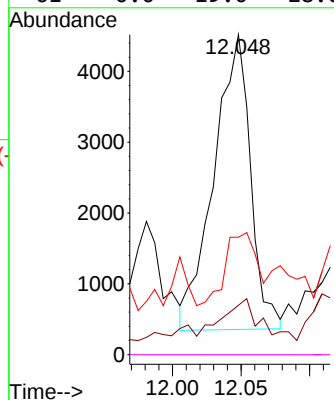
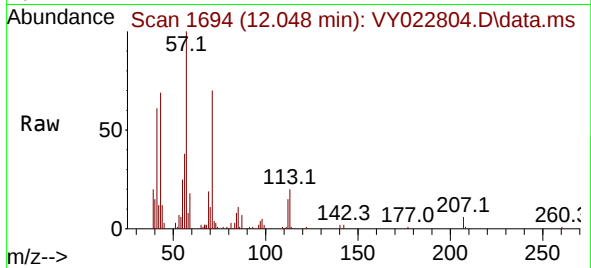




#74
N-amy1 acetate
Concen: 3.982 ug/l
RT: 12.048 min Scan# 1752
Delta R.T. -0.024 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

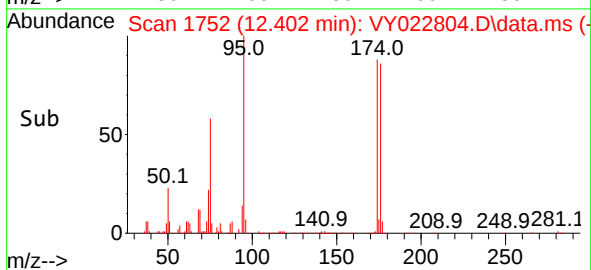
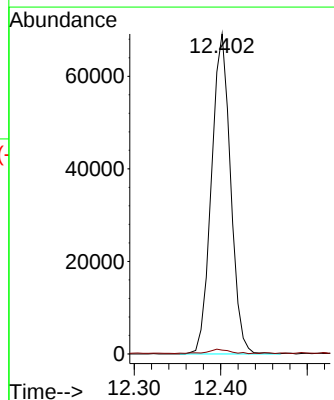
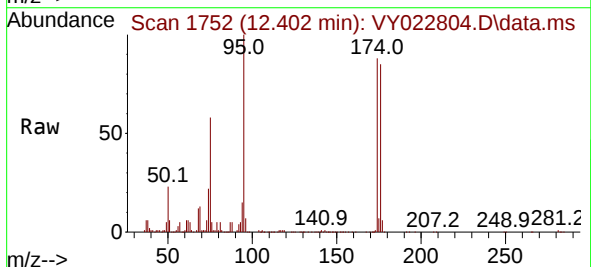
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0093

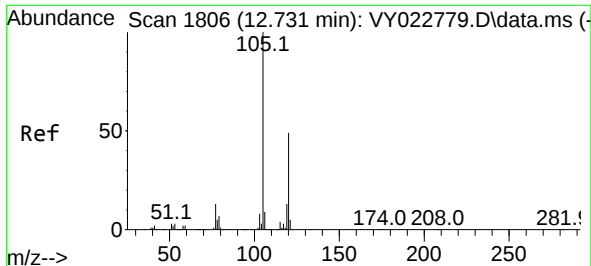
Tgt Ion: 43	Resp: 7726
Ion Ratio	Lower Upper
43 100	
70 11.1	34.2 51.2#
55 19.4	18.2 27.4
61 0.0	19.0 28.6#



#76
1,2,3-Trichloropropane
Concen: 88.731 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.152 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

Tgt Ion: 75	Resp: 105877
Ion Ratio	Lower Upper
75 100	
77 1.5	0.0 0.0#

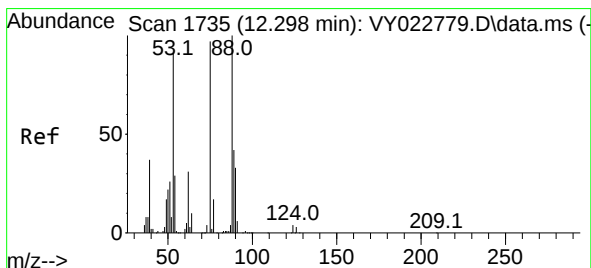
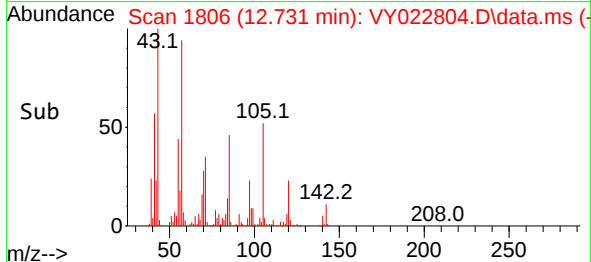
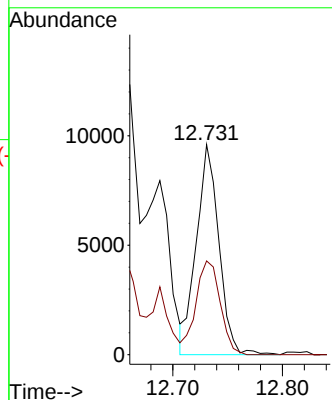
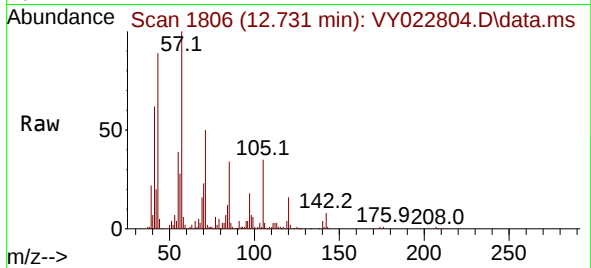




#80
 1,3,5-Trimethylbenzene
 Concen: 1.965 ug/l
 RT: 12.731 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: VY022804.D
 Acq: 24 Jun 2025 17:50

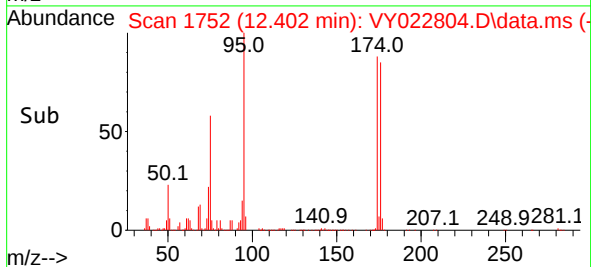
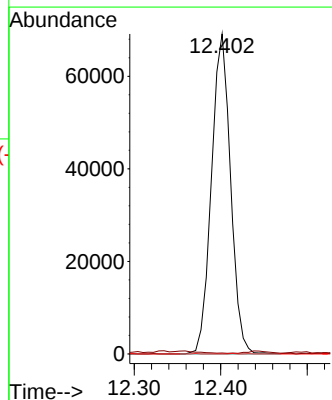
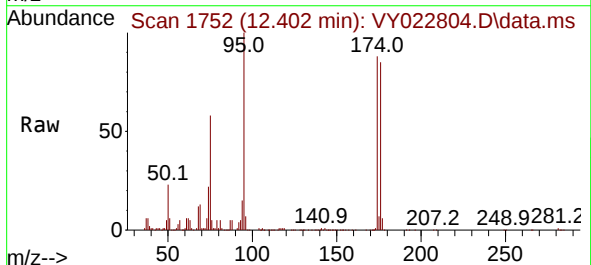
Instrument :
 MSVOA_Y
 ClientSampleId :
 LAW-25-0093

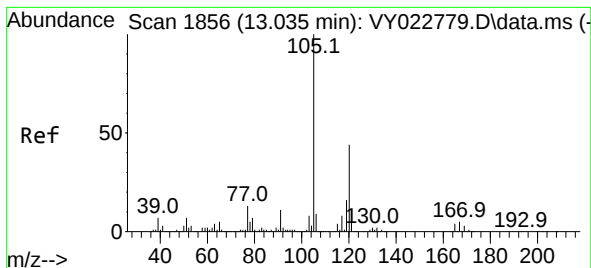
Tgt Ion:105 Resp: 13709
 Ion Ratio Lower Upper
 105 100
 120 48.4 24.1 72.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 224.169 ug/l
 RT: 12.402 min Scan# 1752
 Delta R.T. 0.098 min
 Lab File: VY022804.D
 Acq: 24 Jun 2025 17:50

Tgt Ion: 75 Resp: 105877
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.5 117.7#
 89 0.0 35.7 53.5#





#84

1,2,4-Trimethylbenzene

Concen: 8.527 ug/l

RT: 13.036 min Scan# 1856

Delta R.T. -0.006 min

Lab File: VY022804.D

Acq: 24 Jun 2025 17:50

Instrument :

MSVOA_Y

ClientSampleId :

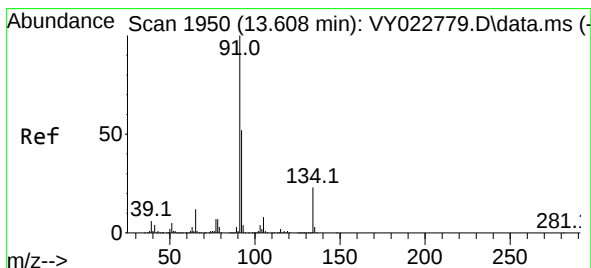
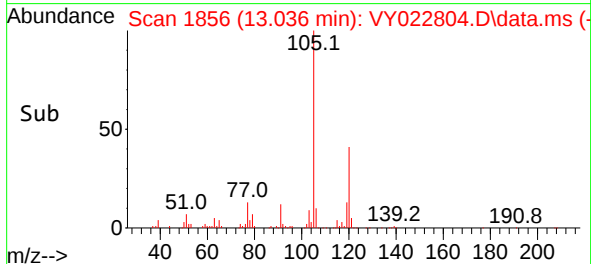
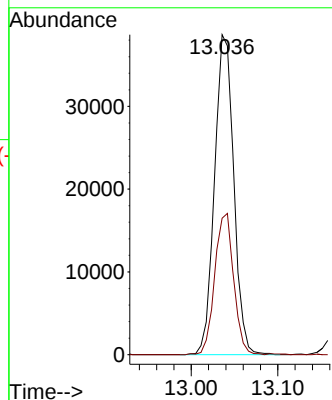
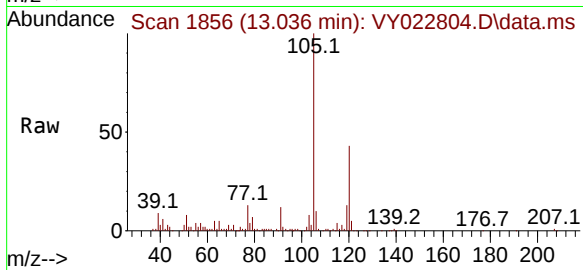
LAW-25-0093

Tgt Ion:105 Resp: 59574

Ion Ratio Lower Upper

105 100

120 43.5 22.7 68.1



#89

n-Butylbenzene

Concen: 2.034 ug/l

RT: 13.609 min Scan# 1950

Delta R.T. -0.012 min

Lab File: VY022804.D

Acq: 24 Jun 2025 17:50

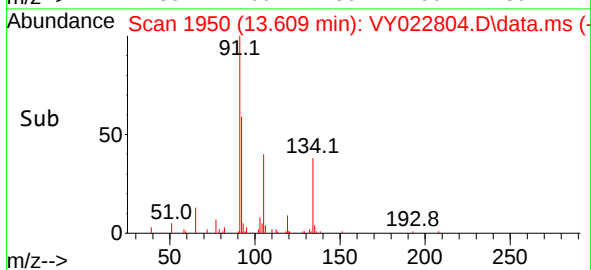
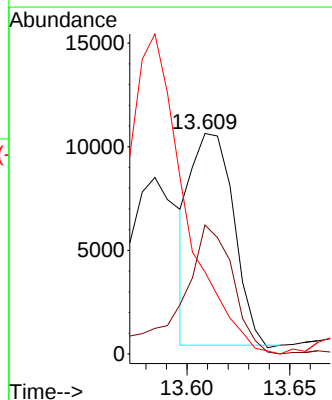
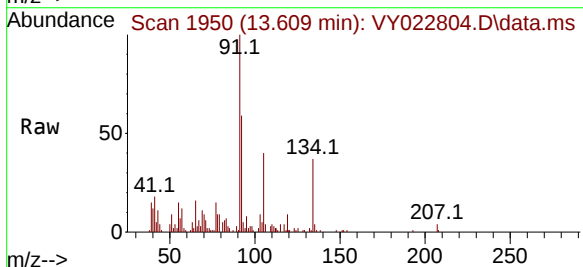
Tgt Ion: 91 Resp: 14741

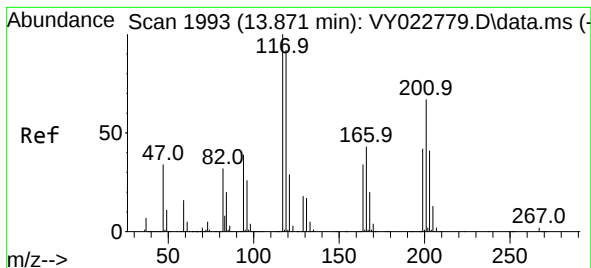
Ion Ratio Lower Upper

91 100

92 74.3 25.9 77.8

134 0.0 12.0 36.1#





#90

Hexachloroethane

Concen: 4.716 ug/l

RT: 13.889 min Scan# 1996

Delta R.T. 0.006 min

Lab File: VY022804.D

Acq: 24 Jun 2025 17:50

Instrument :

MSVOA_Y

ClientSampleId :

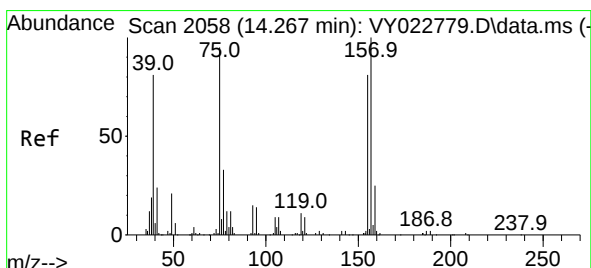
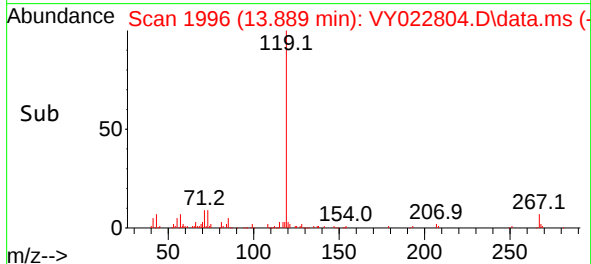
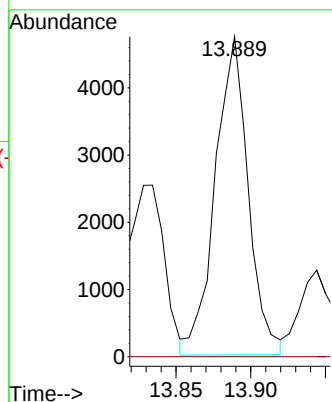
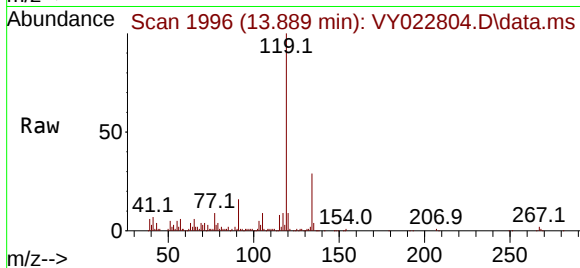
LAW-25-0093

Tgt Ion:117 Resp: 7237

Ion Ratio Lower Upper

117 100

201 0.0 34.0 102.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.930 ug/l

RT: 14.243 min Scan# 2054

Delta R.T. -0.030 min

Lab File: VY022804.D

Acq: 24 Jun 2025 17:50

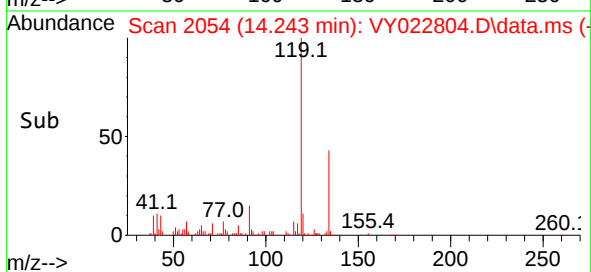
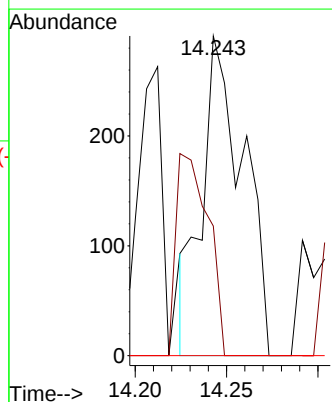
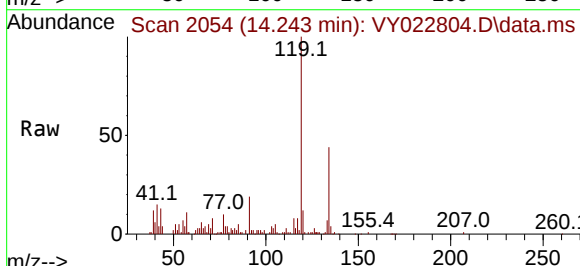
Tgt Ion: 75 Resp: 456

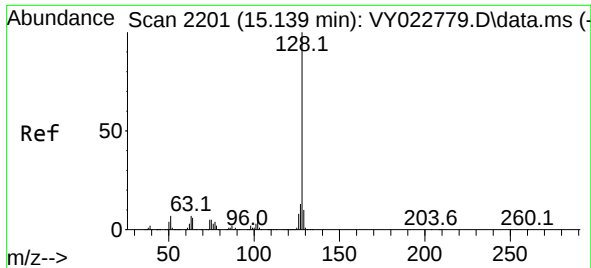
Ion Ratio Lower Upper

75 100

155 0.0 39.9 119.6#

157 0.0 54.0 162.0#





#95

Naphthalene

Concen: 3.172 ug/l

RT: 15.139 min Scan# 21

Delta R.T. -0.006 min

Lab File: VY022804.D

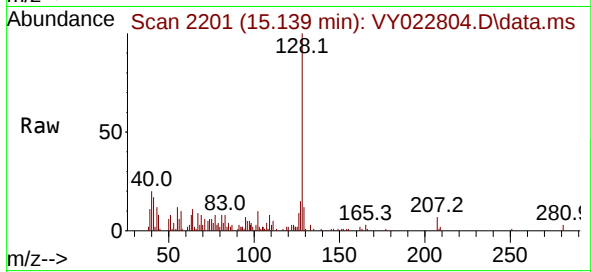
Acq: 24 Jun 2025 17:50

Instrument :

MSVOA_Y

ClientSampleId :

LAW-25-0093



Tgt Ion:128 Resp: 11231

Ion Ratio Lower Upper

128 100

127 15.7 10.4 15.6#

129 13.5 8.9 13.3#

