

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY061125\
 Data File : VY022662.D
 Acq On : 11 Jun 2025 14:21
 Operator : SY/MD
 Sample : Q2286-01
 Misc : 5.07g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 LAW-25-0082-LAW-250083

Quant Time: Jun 12 05:07:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 10 15:26:14 2025
 Response via : Initial Calibration

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

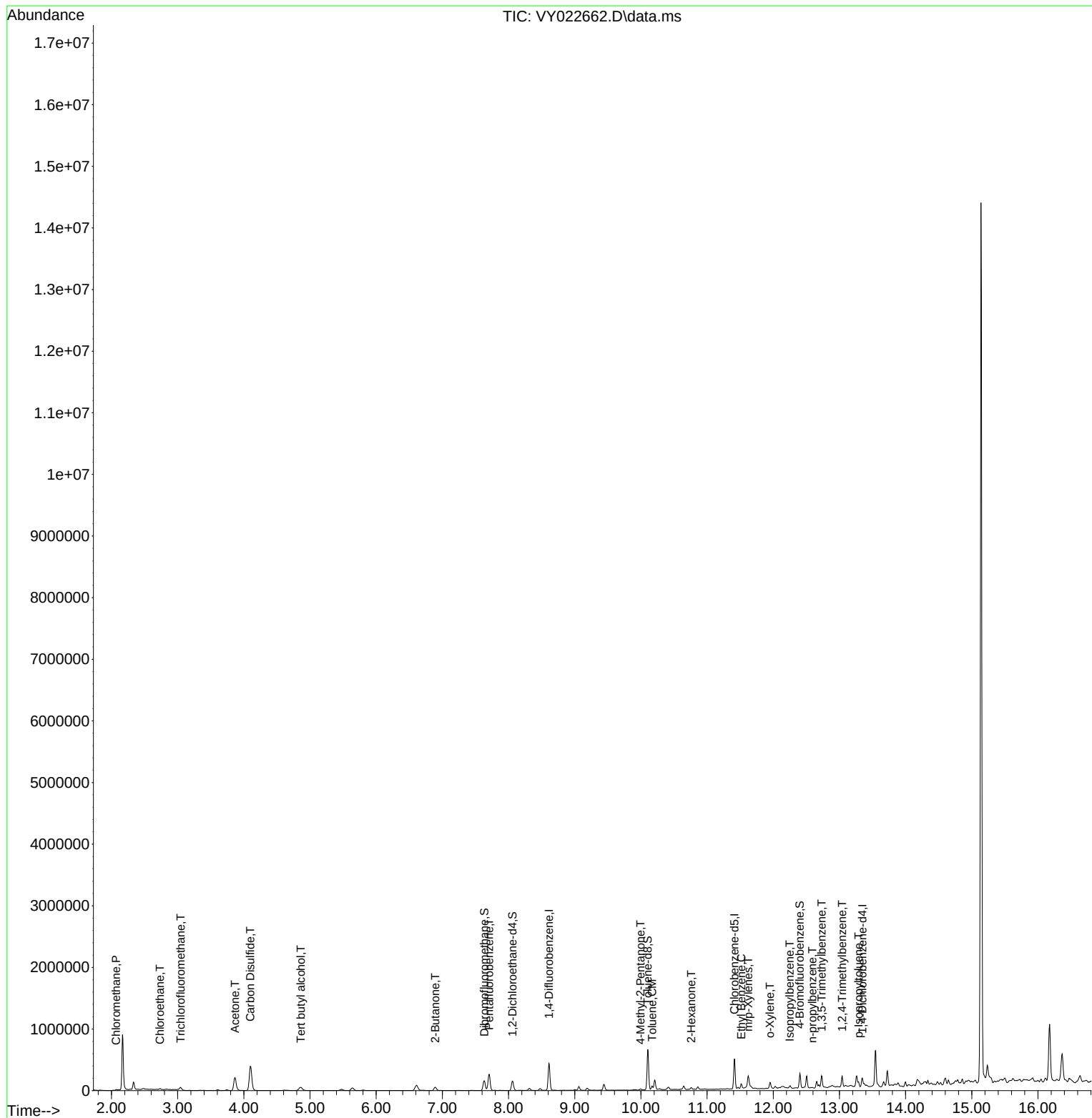
Internal Standards						
1) Pentafluorobenzene	7.707	168	195675	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	358876	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	234105	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	33900	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	115271	52.671	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 105.340%	
35) Dibromofluoromethane	7.634	113	111538	52.070	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 104.140%	
50) Toluene-d8	10.103	98	403612	46.632	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 93.260%	
62) 4-Bromofluorobenzene	12.402	95	63574	24.652	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 49.300%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.068	50	5561	1.074	ug/l	96
6) Chloroethane	2.733	64	13062	3.170	ug/l	90
7) Trichlorofluoromethane	3.043	101	40322	7.911	ug/l	94
11) Tert butyl alcohol	4.860	59	109089	697.896	ug/l	98
16) Acetone	3.866	43	364282	819.613	ug/l	97
17) Carbon Disulfide	4.098	76	771238	117.397	ug/l	99
25) 2-Butanone	6.890	43	90962	141.884	ug/l	100
51) 4-Methyl-2-Pentanone	9.993	43	10852	6.501	ug/l	91
52) Toluene	10.170	92	24212	3.752	ug/l	98
59) 2-Hexanone	10.762	43	19637	17.588	ug/l	97
67) Ethyl Benzene	11.518	91	50698	5.276	ug/l	98
68) m/p-Xylenes	11.621	106	52527	14.420	ug/l	98
69) o-Xylene	11.950	106	23826	6.977	ug/l	97
73) Isopropylbenzene	12.249	105	16117	5.791	ug/l	94
78) n-propylbenzene	12.591	91	7657	2.252	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	57102	26.133	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	86999	39.809	ug/l	98
86) p-Isopropyltoluene	13.292	119	46280	18.693	ug/l	96

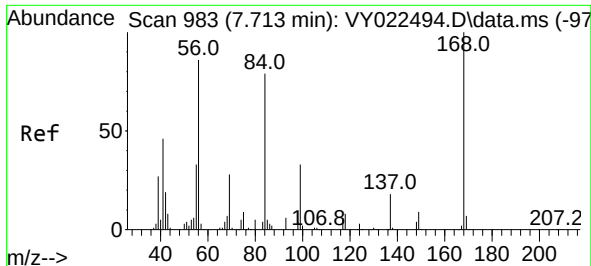
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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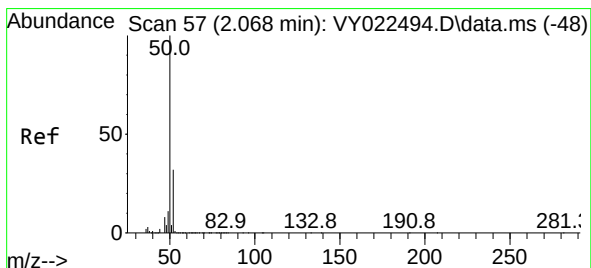
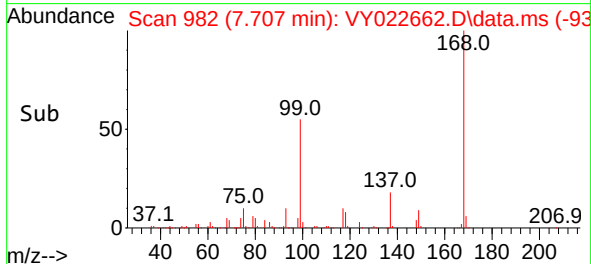
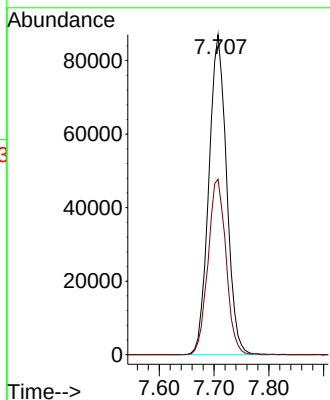
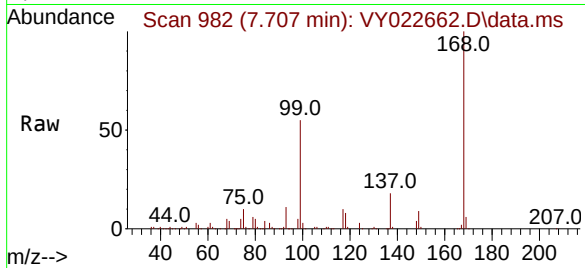




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 99
Delta R.T. -0.006 min
Lab File: VY022662.D
Acq: 11 Jun 2025 14:21

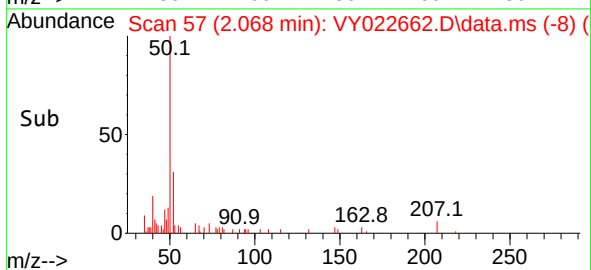
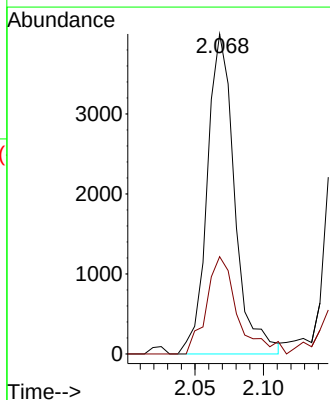
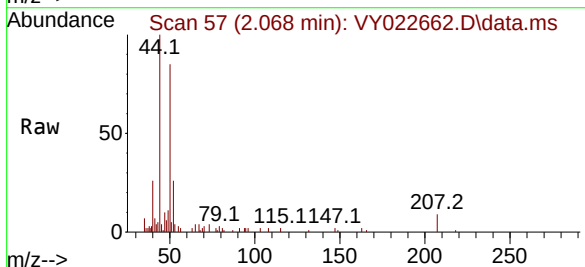
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0082-LAW-250083

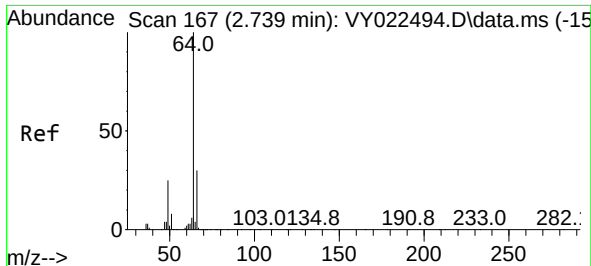
Tgt Ion:168 Resp: 195675
Ion Ratio Lower Upper
168 100
99 54.8 44.3 66.5



#3
Chloromethane
Concen: 1.074 ug/l
RT: 2.068 min Scan# 57
Delta R.T. -0.000 min
Lab File: VY022662.D
Acq: 11 Jun 2025 14:21

Tgt Ion: 50 Resp: 5561
Ion Ratio Lower Upper
50 100
52 30.4 26.0 39.0

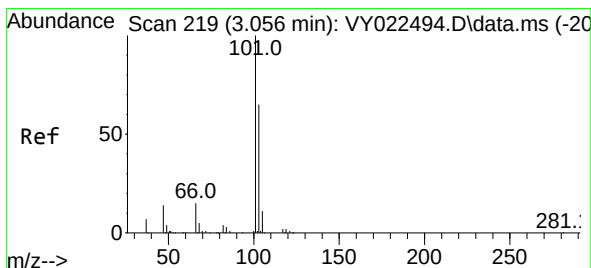
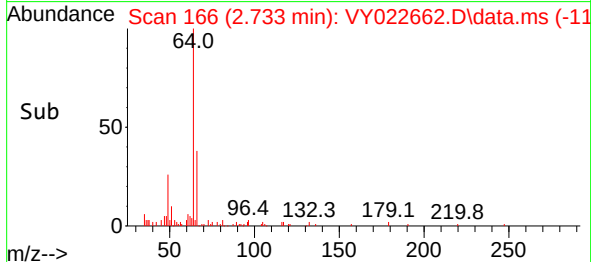
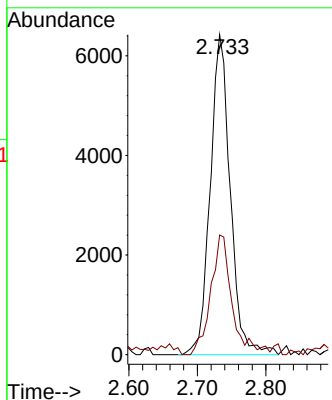
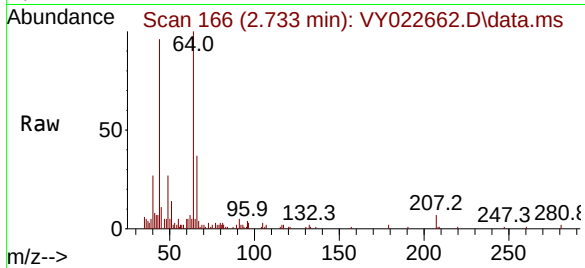




#6
Chloroethane
Concen: 3.170 ug/l
RT: 2.733 min Scan# 166
Delta R.T. -0.006 min
Lab File: VY022662.D
Acq: 11 Jun 2025 14:21

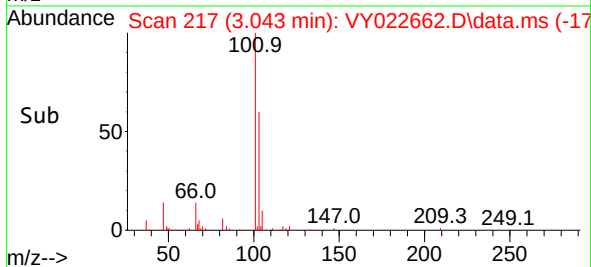
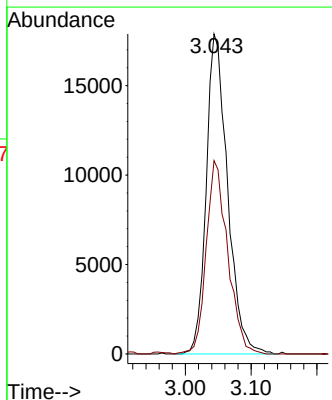
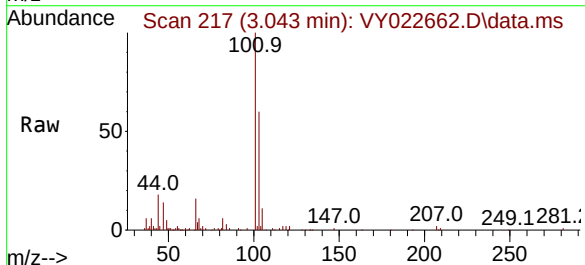
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0082-LAW-250083

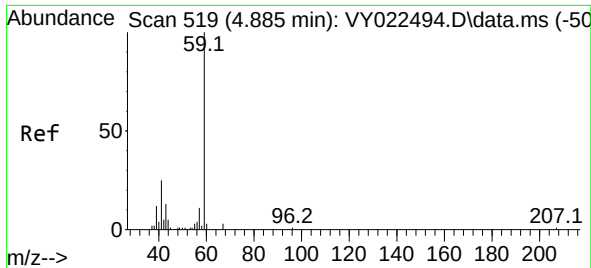
Tgt Ion: 64 Resp: 13062
Ion Ratio Lower Upper
64 100
66 35.2 23.8 35.6



#7
Trichlorofluoromethane
Concen: 7.911 ug/l
RT: 3.043 min Scan# 217
Delta R.T. -0.012 min
Lab File: VY022662.D
Acq: 11 Jun 2025 14:21

Tgt Ion: 101 Resp: 40322
Ion Ratio Lower Upper
101 100
103 60.4 52.2 78.2

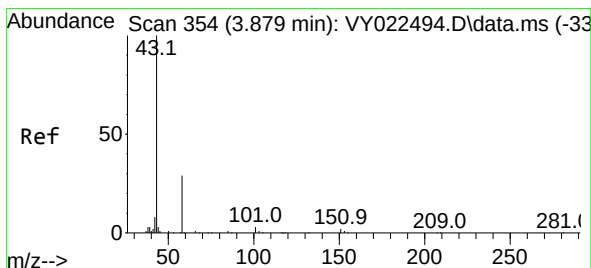
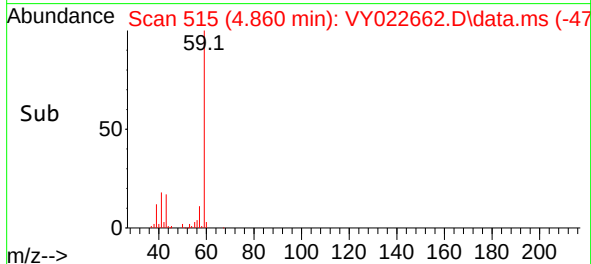
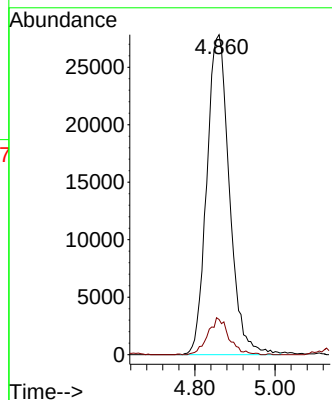
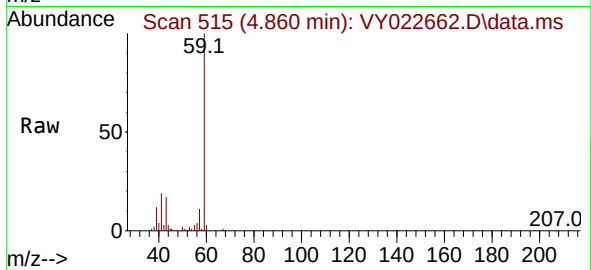




#11
Tert butyl alcohol
Concen: 697.896 ug/l
RT: 4.860 min Scan# 519
Delta R.T. -0.024 min
Lab File: VY022662.D
Acq: 11 Jun 2025 14:21

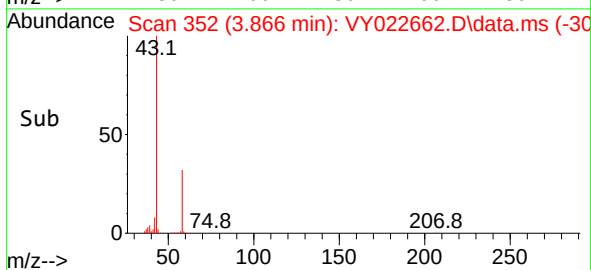
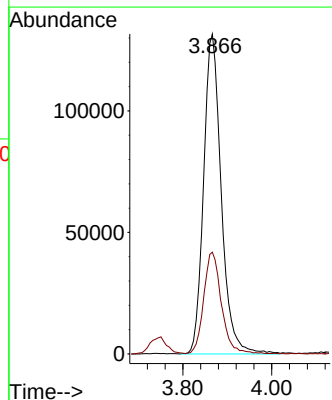
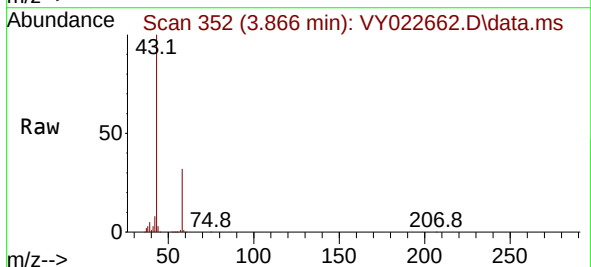
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0082-LAW-250083

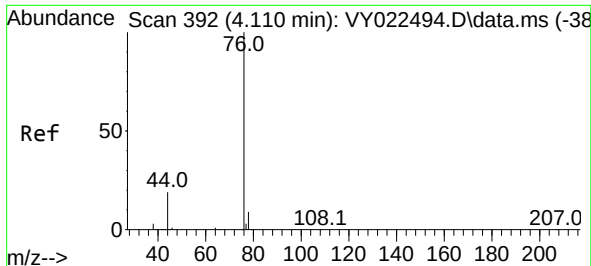
Tgt Ion: 59 Resp: 109089
Ion Ratio Lower Upper
59 100
57 10.7 8.0 12.0



#16
Acetone
Concen: 819.613 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.012 min
Lab File: VY022662.D
Acq: 11 Jun 2025 14:21

Tgt Ion: 43 Resp: 364282
Ion Ratio Lower Upper
43 100
58 31.7 24.0 36.0

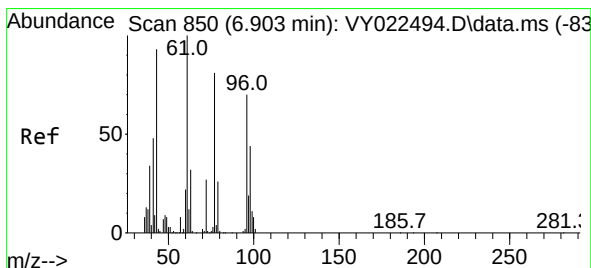
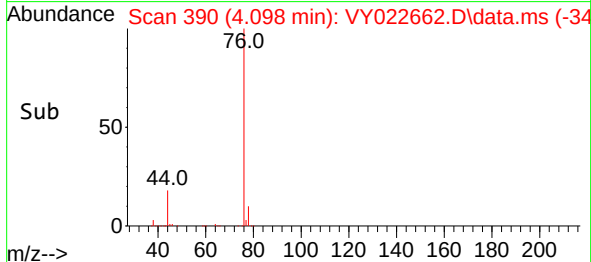
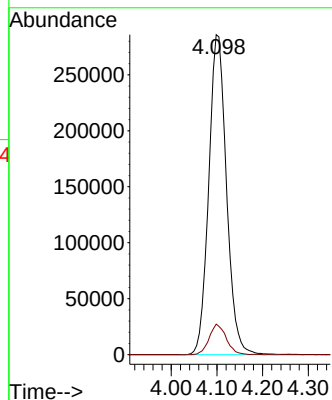
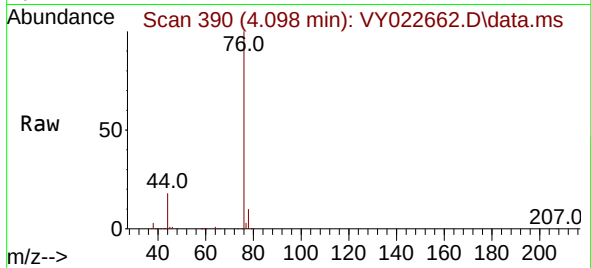




#17
Carbon Disulfide
Concen: 117.397 ug/l
RT: 4.098 min Scan# 390
Delta R.T. -0.012 min
Lab File: VY022662.D
Acq: 11 Jun 2025 14:21

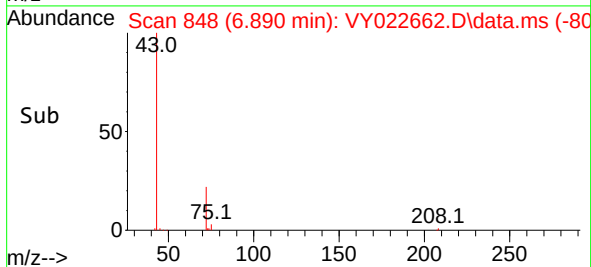
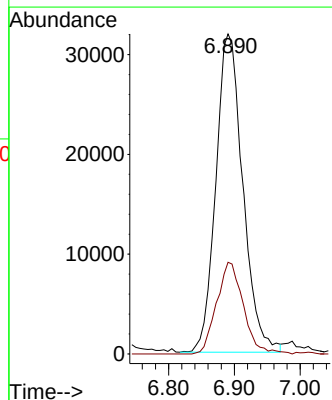
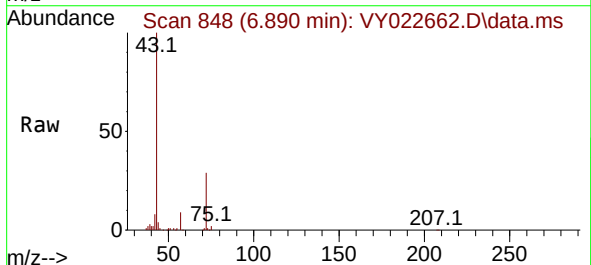
Instrument : MSVOA_Y
ClientSampleId : LAW-25-0082-LAW-250083

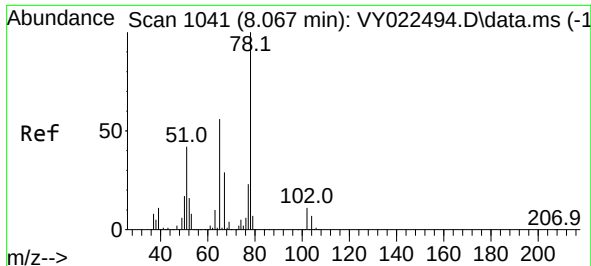
Tgt Ion: 76 Resp: 771238
Ion Ratio Lower Upper
76 100
78 9.5 7.4 11.2



#25
2-Butanone
Concen: 141.884 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.012 min
Lab File: VY022662.D
Acq: 11 Jun 2025 14:21

Tgt Ion: 43 Resp: 90962
Ion Ratio Lower Upper
43 100
72 28.8 22.9 34.3





#33

1,2-Dichloroethane-d4

Concen: 52.671 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY022662.D

Acq: 11 Jun 2025 14:21

Instrument :

MSVOA_Y

ClientSampleId :

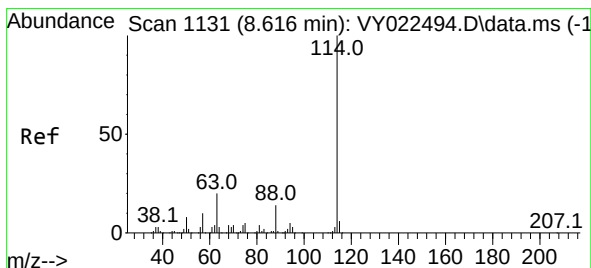
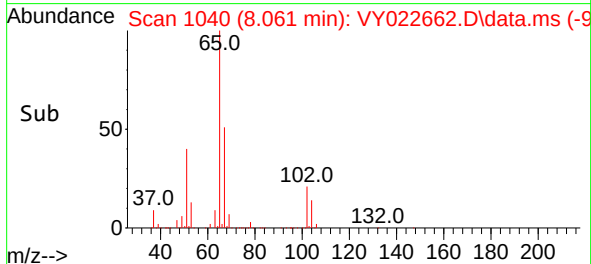
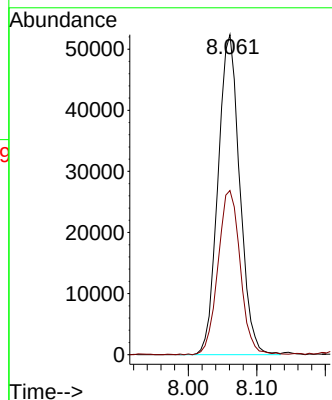
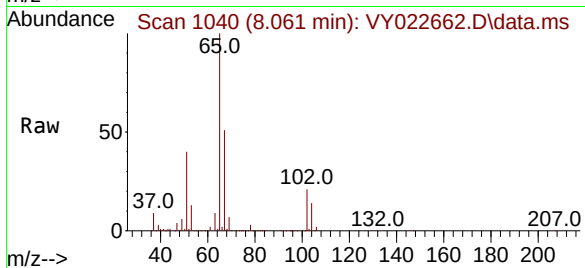
LAW-25-0082-LAW-250083

Tgt Ion: 65 Resp: 115271

Ion Ratio Lower Upper

65 100

67 52.6 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: VY022662.D

Acq: 11 Jun 2025 14:21

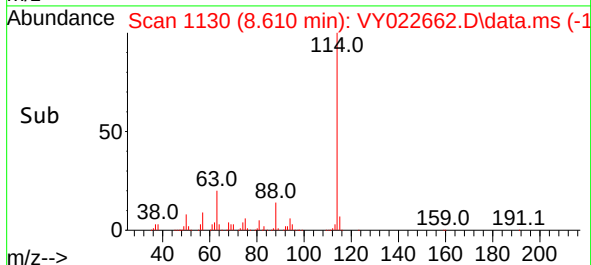
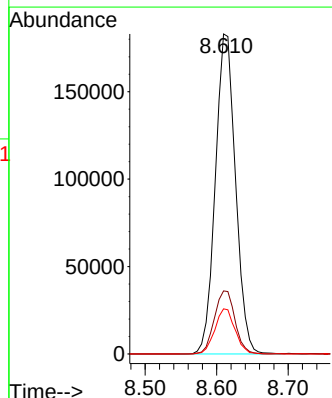
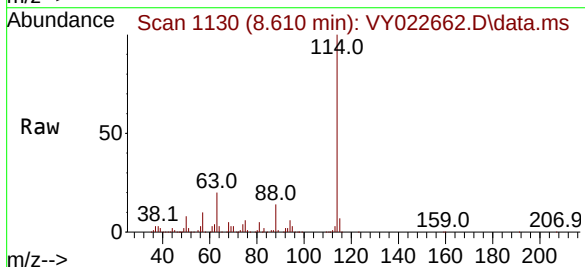
Tgt Ion: 114 Resp: 358876

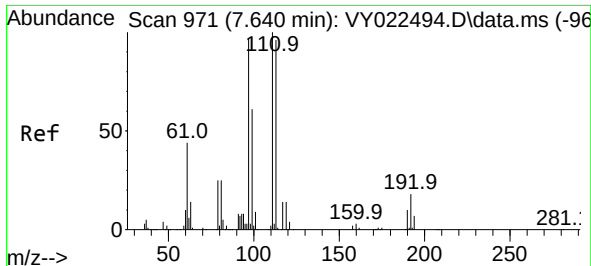
Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.8

88 14.1 0.0 27.8





#35

Dibromofluoromethane

Concen: 52.070 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY022662.D

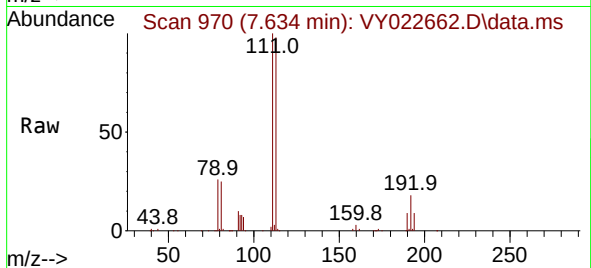
Acq: 11 Jun 2025 14:21

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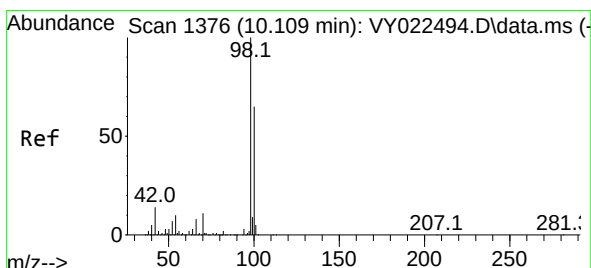
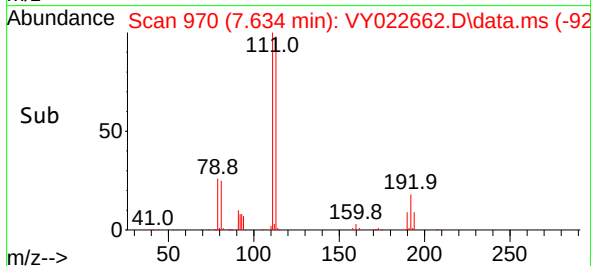
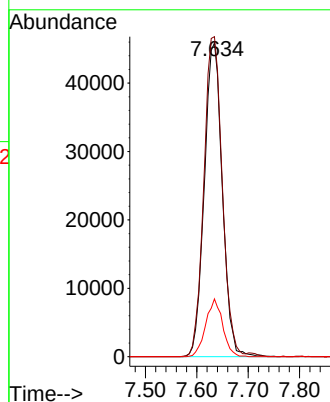
Tgt Ion:113 Resp: 111538

Ion Ratio Lower Upper

113 100

111 104.2 81.1 121.7

192 17.4 14.2 21.2



#50

Toluene-d8

Concen: 46.632 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY022662.D

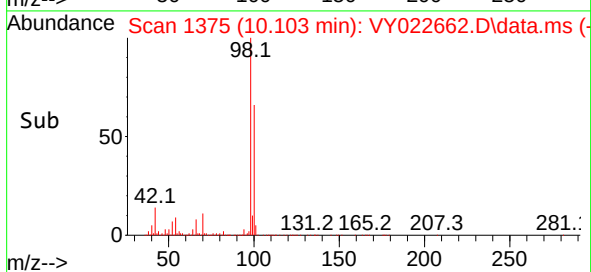
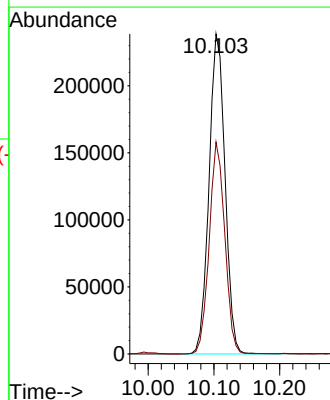
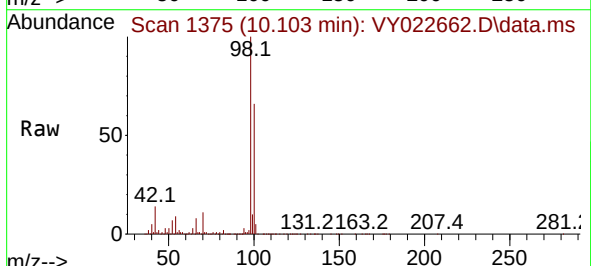
Acq: 11 Jun 2025 14:21

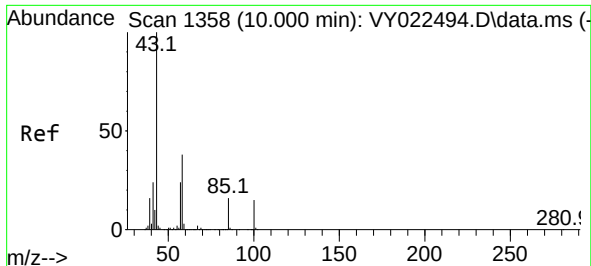
Tgt Ion: 98 Resp: 403612

Ion Ratio Lower Upper

98 100

100 64.5 51.4 77.0

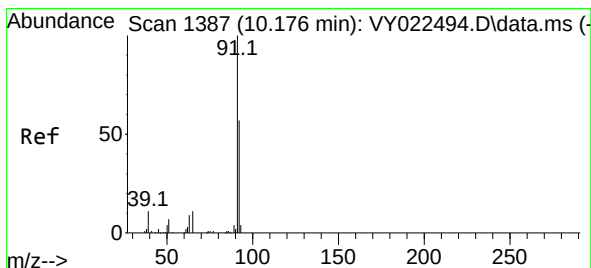
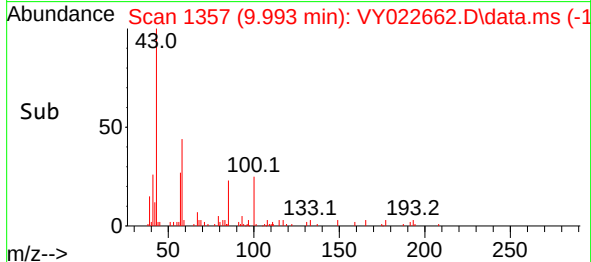
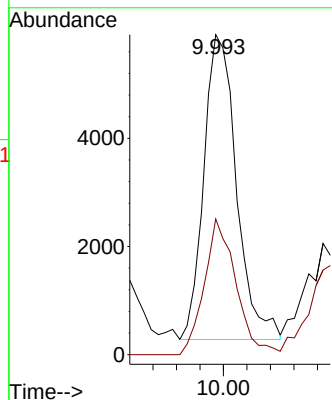
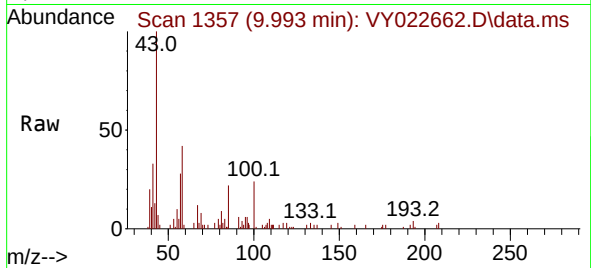




#51
4-Methyl-2-Pentanone
Concen: 6.501 ug/l
RT: 9.993 min Scan# 1357
Delta R.T. -0.006 min
Lab File: VY022662.D
Acq: 11 Jun 2025 14:21

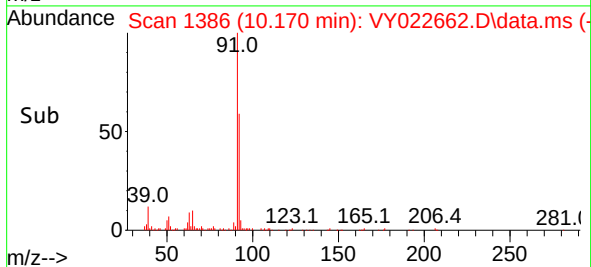
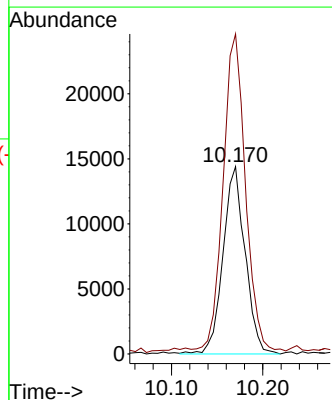
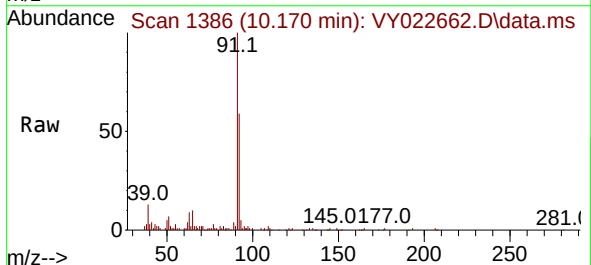
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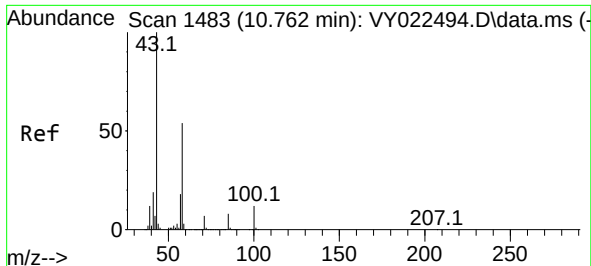
Tgt Ion: 43 Resp: 10852
Ion Ratio Lower Upper
43 100
58 43.2 30.4 45.6



#52
Toluene
Concen: 3.752 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY022662.D
Acq: 11 Jun 2025 14:21

Tgt Ion: 92 Resp: 24212
Ion Ratio Lower Upper
92 100
91 171.5 139.0 208.4

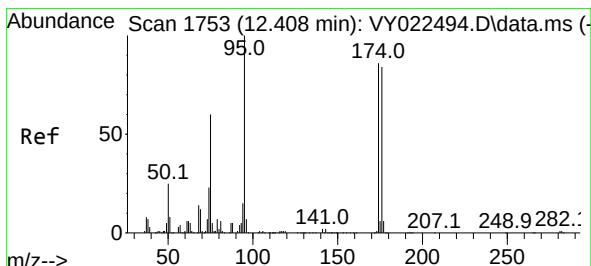
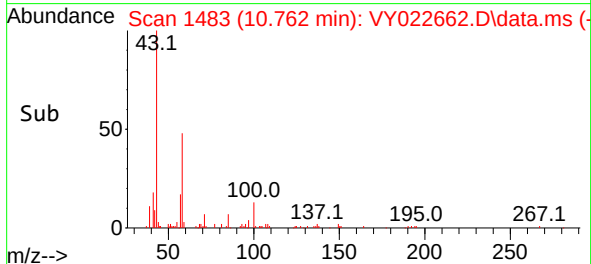
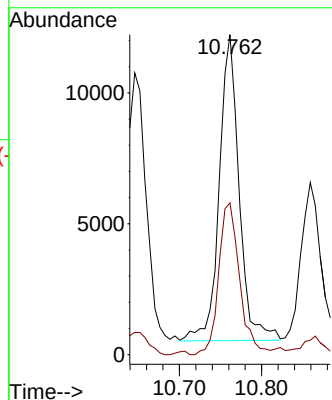
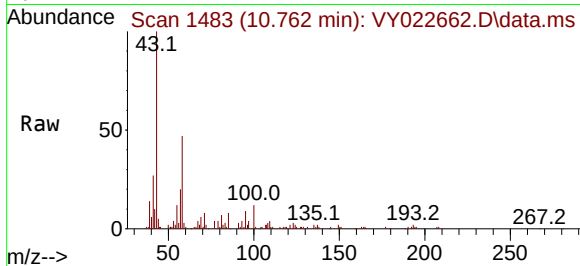




#59
2-Hexanone
Concen: 17.588 ug/l
RT: 10.762 min Scan# 1483
Delta R.T. -0.000 min
Lab File: VY022662.D
Acq: 11 Jun 2025 14:21

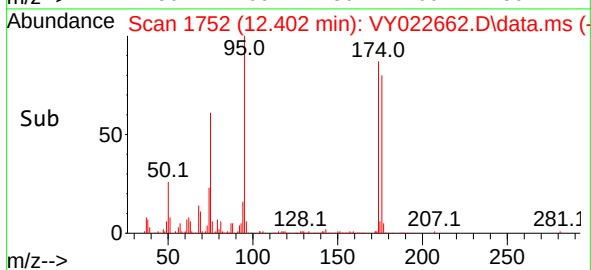
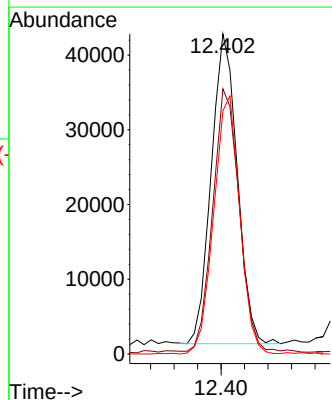
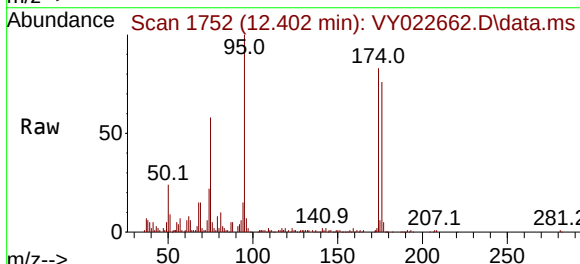
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0082-LAW-250083

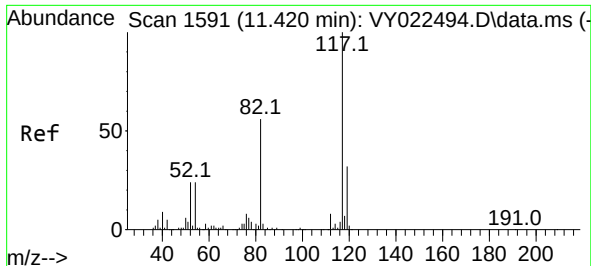
Tgt Ion: 43 Resp: 19637
Ion Ratio Lower Upper
43 100
58 52.2 27.3 81.8



#62
4-Bromofluorobenzene
Concen: 24.652 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022662.D
Acq: 11 Jun 2025 14:21

Tgt Ion: 95 Resp: 63574
Ion Ratio Lower Upper
95 100
174 87.3 0.0 170.0
176 83.6 0.0 166.2

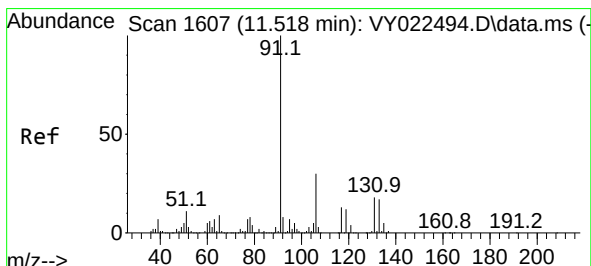
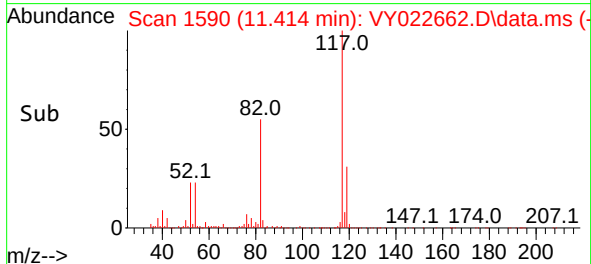
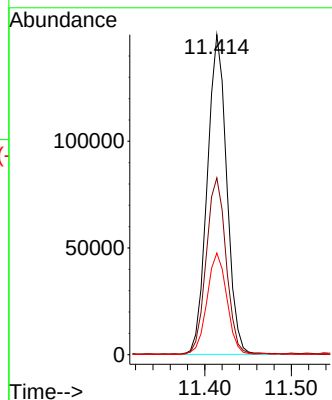
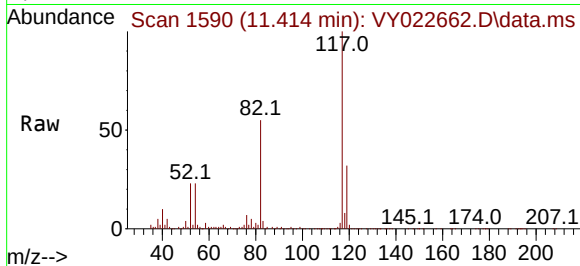




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022662.D
Acq: 11 Jun 2025 14:21

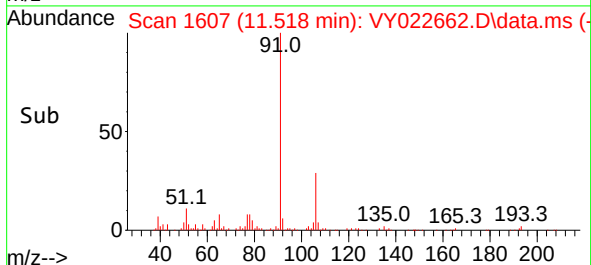
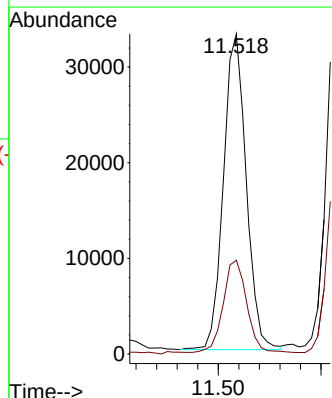
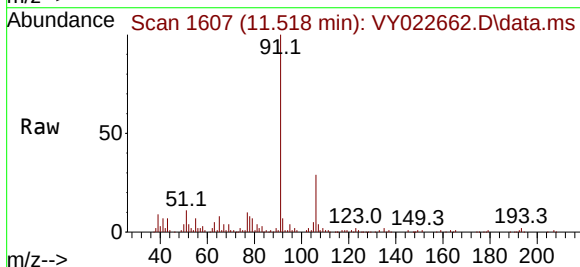
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0082-LAW-250083

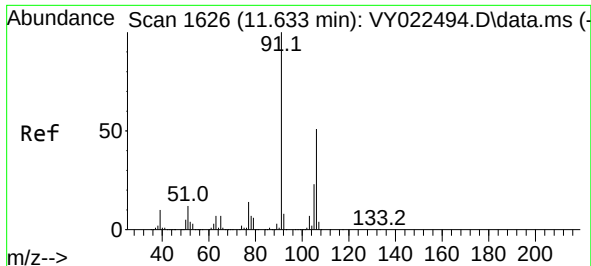
Tgt Ion:117 Resp: 234105
Ion Ratio Lower Upper
117 100
82 55.1 44.6 66.8
119 31.7 25.4 38.0



#67
Ethyl Benzene
Concen: 5.276 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022662.D
Acq: 11 Jun 2025 14:21

Tgt Ion: 91 Resp: 50698
Ion Ratio Lower Upper
91 100
106 29.1 24.2 36.4

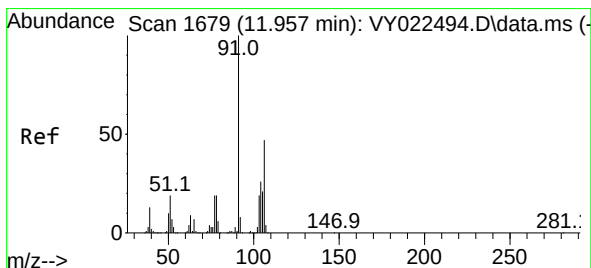
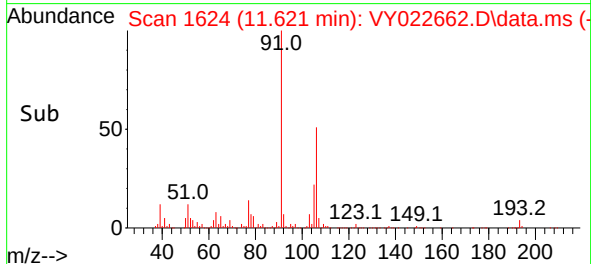
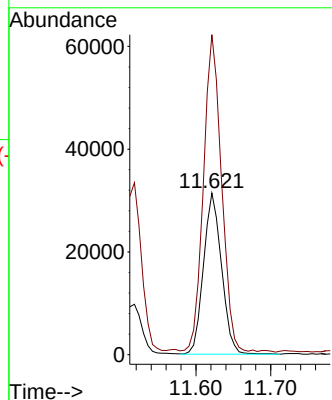
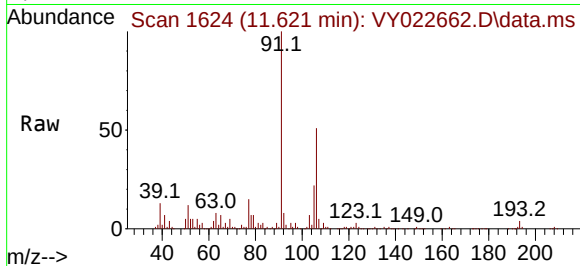




#68
m/p-Xylenes
Concen: 14.420 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. -0.012 min
Lab File: VY022662.D
Acq: 11 Jun 2025 14:21

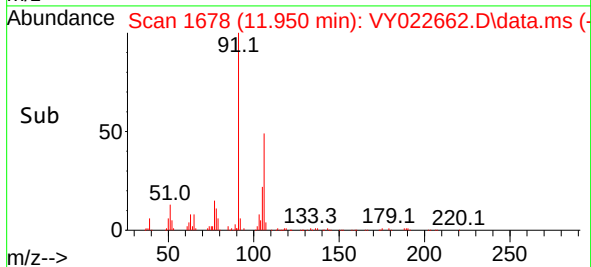
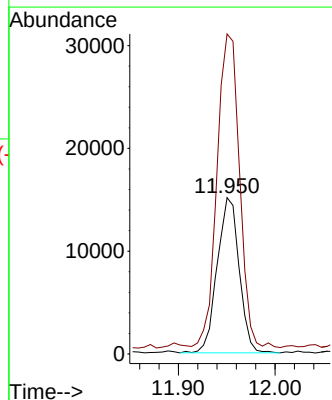
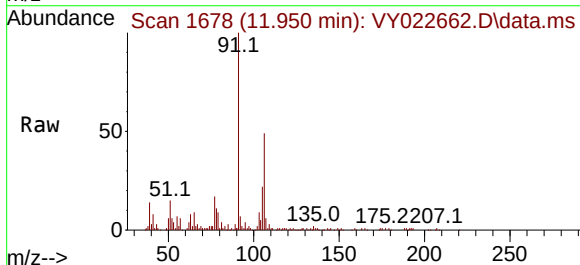
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0082-LAW-250083

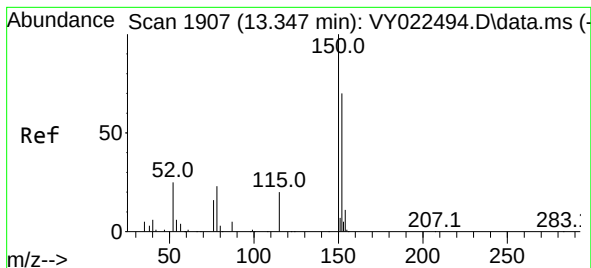
Tgt Ion:106 Resp: 52527
Ion Ratio Lower Upper
106 100
91 196.5 159.4 239.0



#69
o-Xylene
Concen: 6.977 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. -0.006 min
Lab File: VY022662.D
Acq: 11 Jun 2025 14:21

Tgt Ion:106 Resp: 23826
Ion Ratio Lower Upper
106 100
91 206.8 105.8 317.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022662.D

Acq: 11 Jun 2025 14:21

Instrument :

MSVOA_Y

ClientSampleId :

LAW-25-0082-LAW-250083

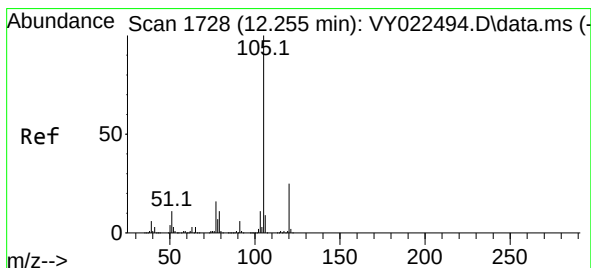
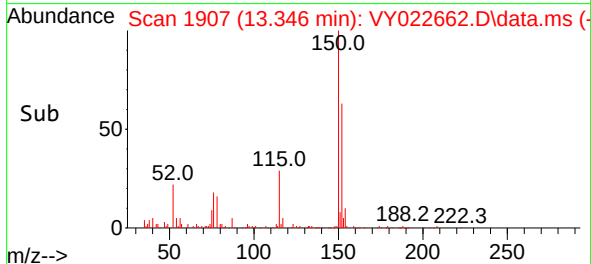
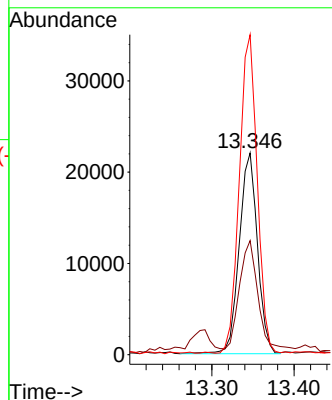
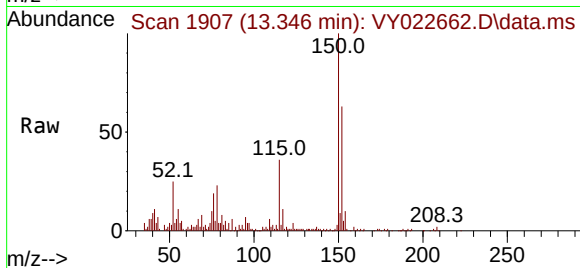
Tgt Ion:152 Resp: 33900

Ion Ratio Lower Upper

152 100

115 53.2 28.9 86.7

150 155.8 0.0 349.6



#73

Isopropylbenzene

Concen: 5.791 ug/l

RT: 12.249 min Scan# 1727

Delta R.T. -0.006 min

Lab File: VY022662.D

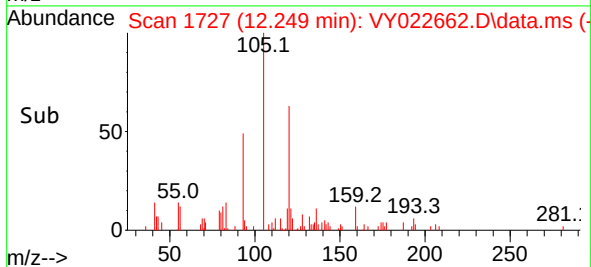
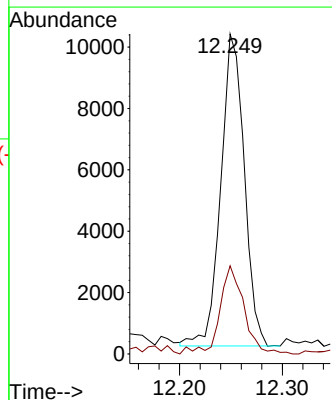
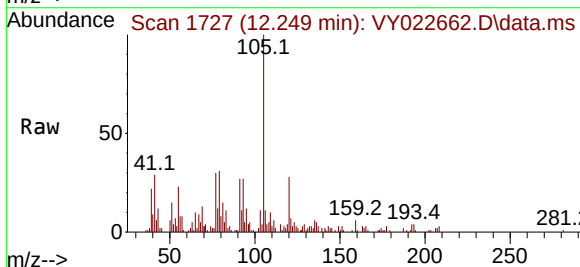
Acq: 11 Jun 2025 14:21

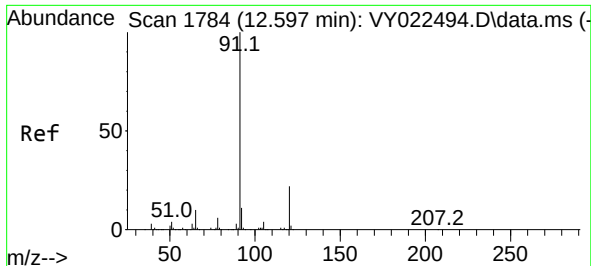
Tgt Ion:105 Resp: 16117

Ion Ratio Lower Upper

105 100

120 29.1 13.0 38.9

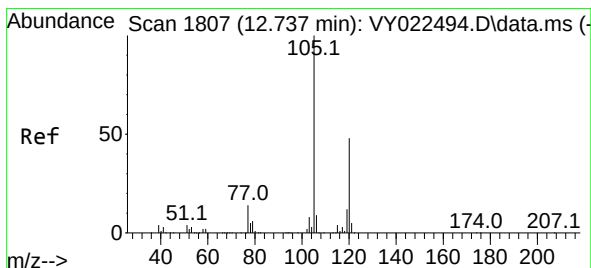
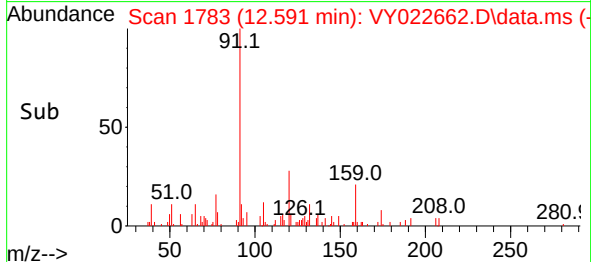
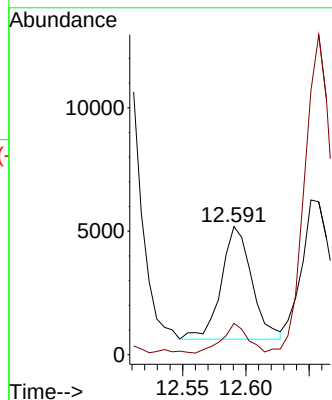
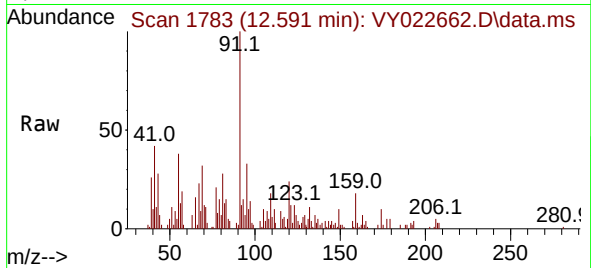




#78
n-propylbenzene
Concen: 2.252 ug/l
RT: 12.591 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022662.D
Acq: 11 Jun 2025 14:21

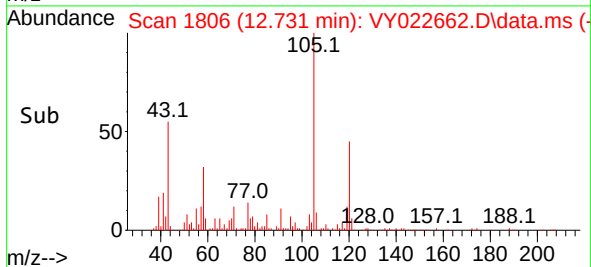
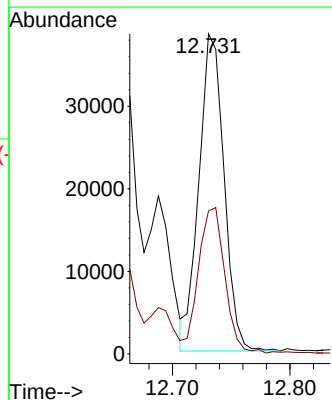
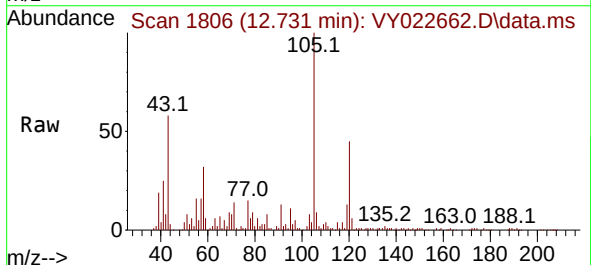
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0082-LAW-250083

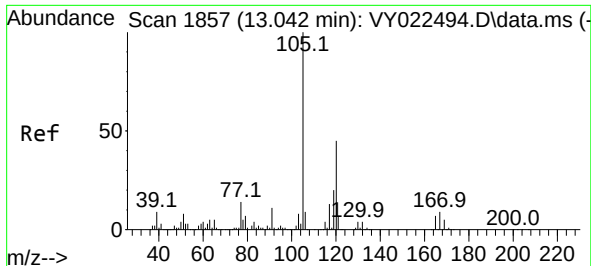
Tgt Ion: 91 Resp: 7657
Ion Ratio Lower Upper
91 100
120 21.8 10.8 32.4



#80
1,3,5-Trimethylbenzene
Concen: 26.133 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.006 min
Lab File: VY022662.D
Acq: 11 Jun 2025 14:21

Tgt Ion: 105 Resp: 57102
Ion Ratio Lower Upper
105 100
120 47.5 24.1 72.4

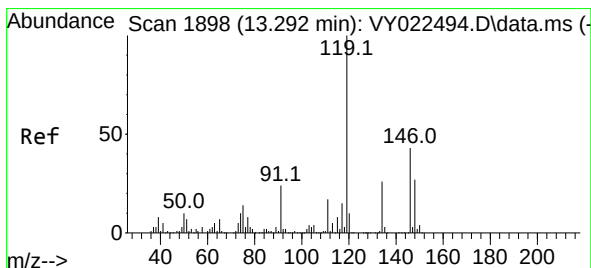
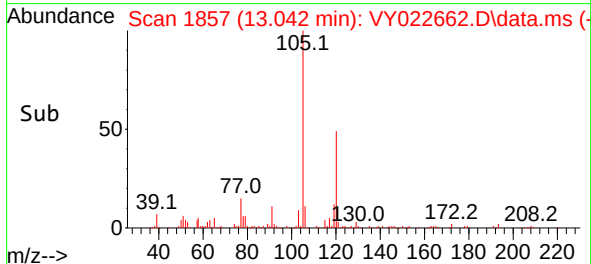
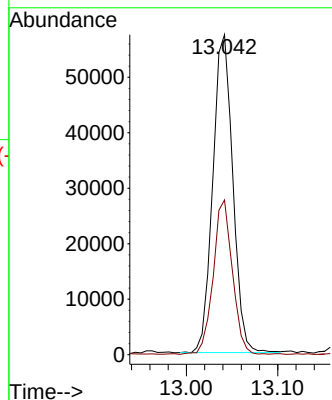
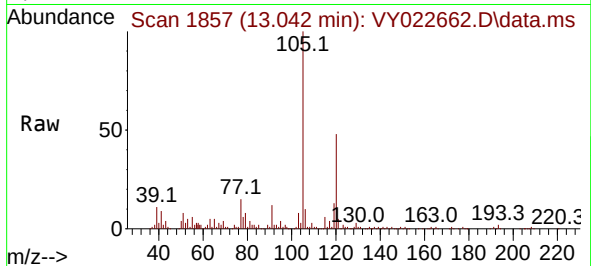




#84
1,2,4-Trimethylbenzene
Concen: 39.809 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY022662.D
Acq: 11 Jun 2025 14:21

Instrument : MSVOA_Y
ClientSampleId : LAW-25-0082-LAW-250083

Tgt Ion:105 Resp: 86999
Ion Ratio Lower Upper
105 100
120 46.5 22.7 68.1



#86
p-Isopropyltoluene
Concen: 18.693 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY022662.D
Acq: 11 Jun 2025 14:21

Tgt Ion:119 Resp: 46280
Ion Ratio Lower Upper
119 100
134 23.8 13.1 39.1
91 21.6 11.6 34.8

