

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090925\
 Data File : VN087768.D
 Acq On : 09 Sep 2025 11:42
 Operator : JC\MD
 Sample : Q3040-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 001 willets Pt Blvd(july)

Quant Time: Sep 10 02:29:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 05 03:29:53 2025
 Response via : Initial Calibration

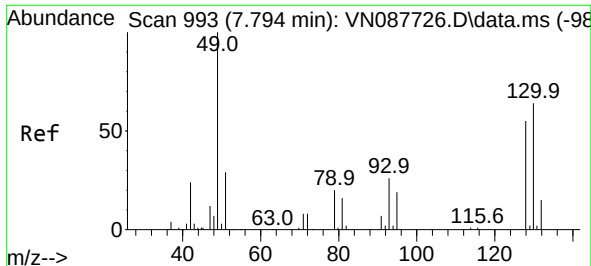
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.794	128	47185	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	230306	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	213828	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	117289	29.099	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.000%
60) 4-Bromofluorobenzene	12.829	95	91708	26.673	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	88.900%
63) Toluene-d8	10.547	98	292130	29.377	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.933%
Target Compounds						
					Qvalue	
13) Acrolein	4.165	56	420	0.537	ug/l #	1
15) Acetone	4.453	58	697	1.182	ug/l #	63
16) Carbon Disulfide	4.700	76	1954	0.250	ug/l #	81
18) Methylene Chloride	5.259	84	714	0.221	ug/l #	21
23) tert-Butyl Alcohol	5.536	59	326	0.488	ug/l #	100
25) Chloroform	7.947	83	56557	9.222	ug/l	94
30) 2-Butanone	7.482	43	7951	3.084	ug/l #	64
36) 1,2-Dichloroethane	9.076	62	8689	1.902	ug/l #	75
38) Methylcyclohexane	9.859	83	4798	1.164	ug/l #	20
41) Bromodichloromethane	9.859	83	5134	1.089	ug/l #	83
58) 4-Methyl-2-Pentanone	10.423	43	3618	0.716	ug/l #	92
62) Toluene	10.612	91	26425	2.043	ug/l	99
77) t-1,4-Dichloro-2-butene	12.829	75	52712	34.744	ug/l #	14
79) tert-butylbenzene	13.700	119	5234	0.581	ug/l	81
82) p-Isopropyltoluene	13.700	119	5234	0.480	ug/l #	64

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

Quant Time: Sep 10 02:29:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

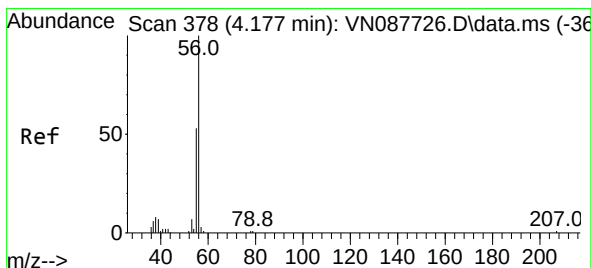
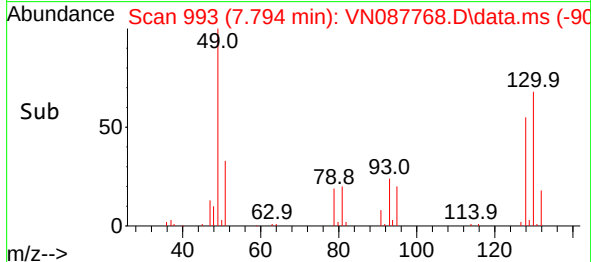
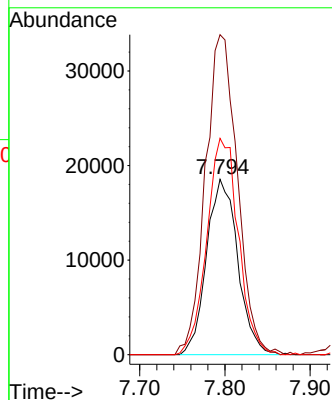
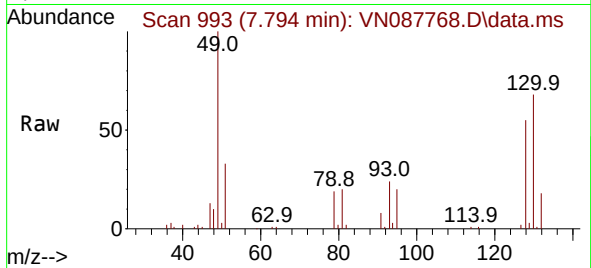




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 993
Delta R.T. 0.000 min
Lab File: VN087768.D
Acq: 09 Sep 2025 11:42

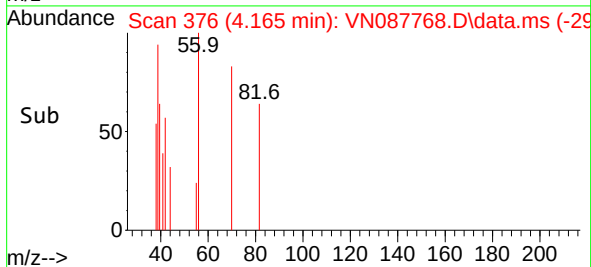
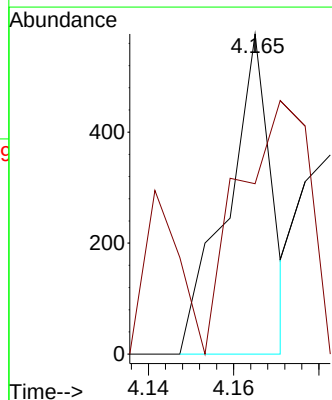
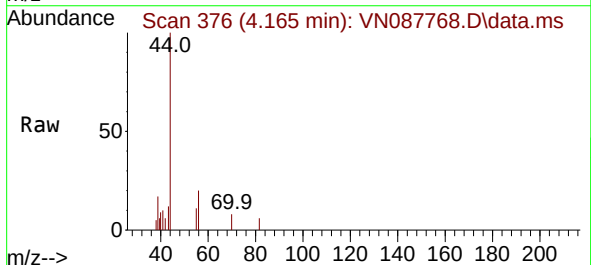
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

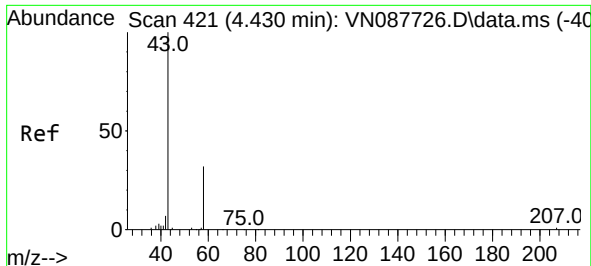
Tgt Ion:128 Resp: 47185
Ion Ratio Lower Upper
128 100
49 186.0 0.0 464.3
130 125.1 0.0 300.5



#13
Acrolein
Concen: 0.537 ug/l
RT: 4.165 min Scan# 376
Delta R.T. -0.012 min
Lab File: VN087768.D
Acq: 09 Sep 2025 11:42

Tgt Ion: 56 Resp: 420
Ion Ratio Lower Upper
56 100
55 125.2 28.6 42.8#





#15

Acetone

Concen: 1.182 ug/l

RT: 4.453 min Scan# 41

Delta R.T. 0.023 min

Lab File: VN087768.D

Acq: 09 Sep 2025 11:42

Instrument :

MSVOA_N

ClientSampleId :

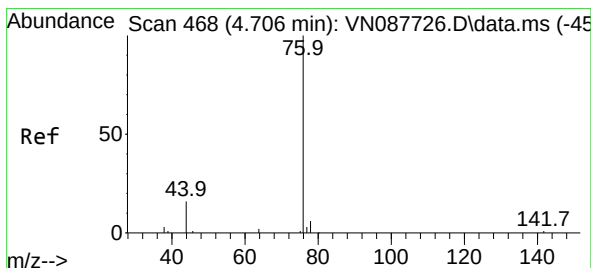
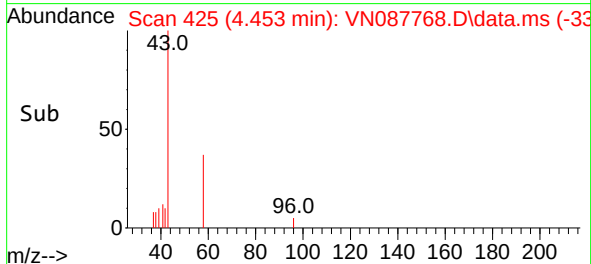
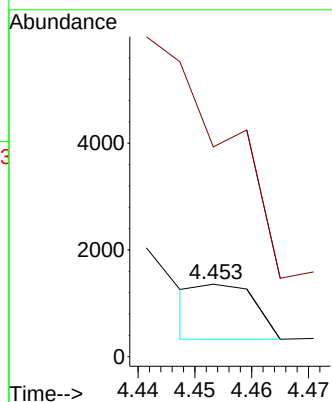
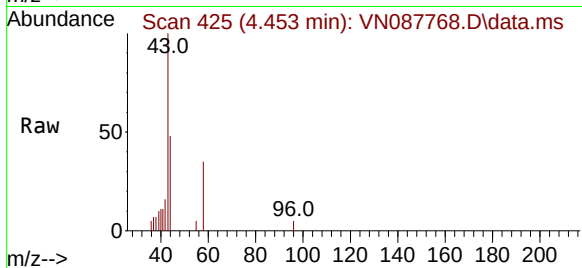
001 willets Pt Blvd(july)

Tgt Ion: 58 Resp: 697

Ion Ratio Lower Upper

58 100

43 238.7 250.6 376.0#



#16

Carbon Disulfide

Concen: 0.250 ug/l

RT: 4.700 min Scan# 467

Delta R.T. -0.006 min

Lab File: VN087768.D

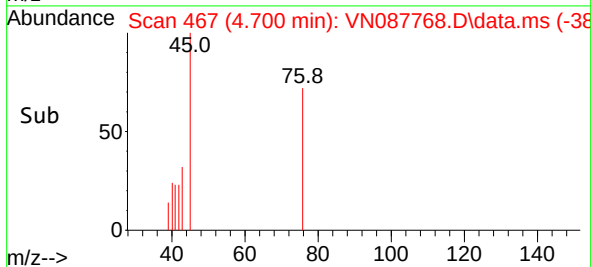
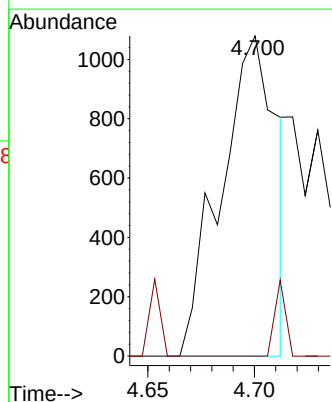
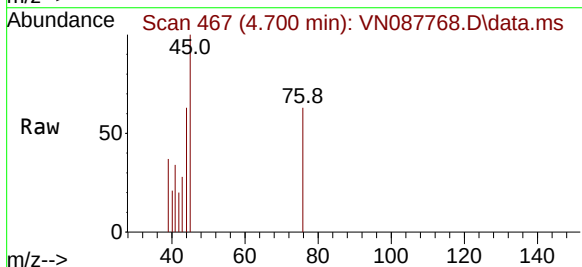
Acq: 09 Sep 2025 11:42

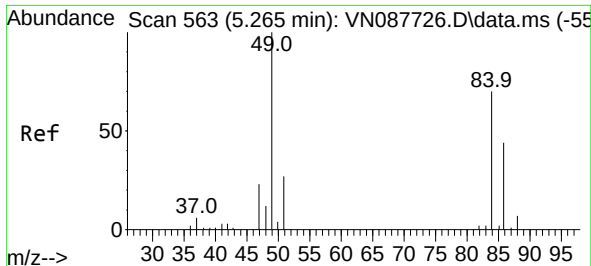
Tgt Ion: 76 Resp: 1954

Ion Ratio Lower Upper

76 100

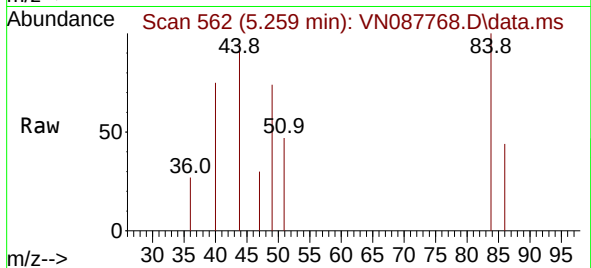
78 0.0 5.0 7.6#





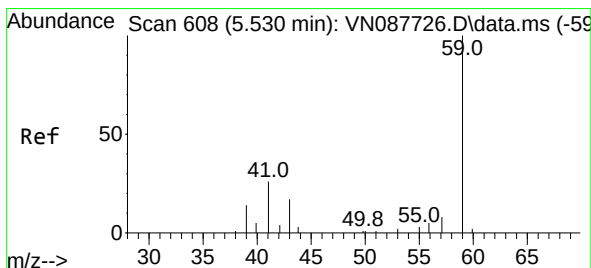
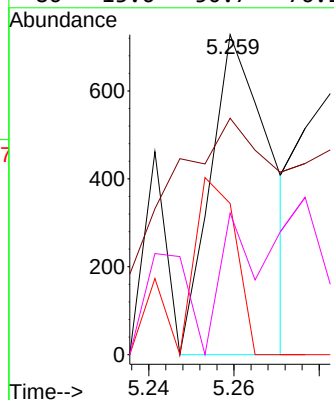
#18
Methylene Chloride
Concen: 0.221 ug/l
RT: 5.259 min Scan# 562
Delta R.T. -0.006 min
Lab File: VN087768.D
Acq: 09 Sep 2025 11:42

Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)



Tgt Ion: 84 Resp: 714

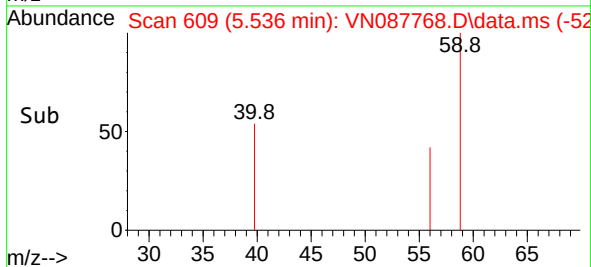
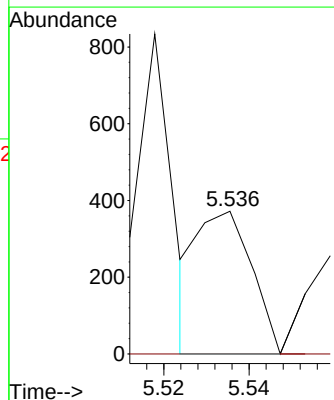
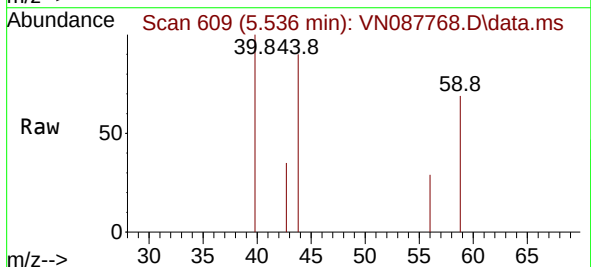
Ion	Ratio	Lower	Upper
84	100		
49	16.9	114.1	171.1#
51	47.3	30.2	45.4#
86	13.6	50.7	76.1#

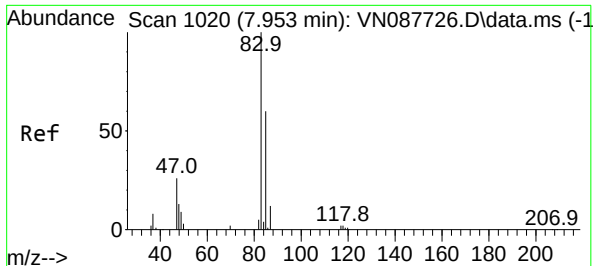


#23
tert-Butyl Alcohol
Concen: 0.488 ug/l
RT: 5.536 min Scan# 609
Delta R.T. 0.006 min
Lab File: VN087768.D
Acq: 09 Sep 2025 11:42

Tgt Ion: 59 Resp: 326

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0





#25

Chloroform

Concen: 9.222 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VN087768.D

Acq: 09 Sep 2025 11:42

Instrument :

MSVOA_N

ClientSampleId :

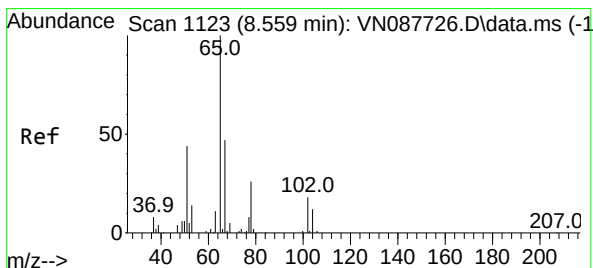
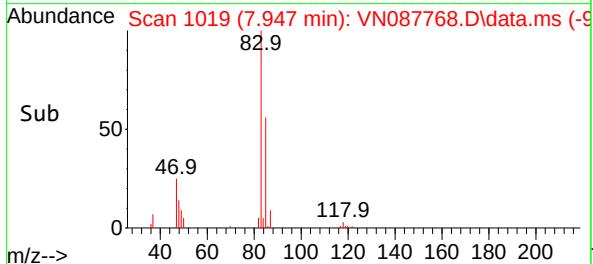
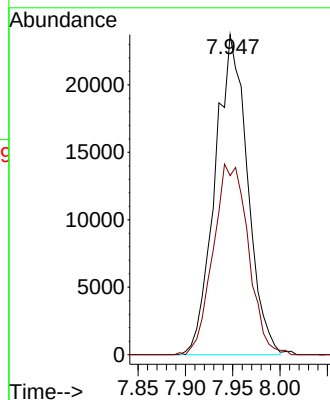
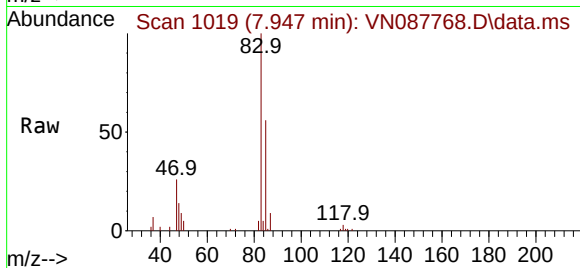
001 willets Pt Blvd(july)

Tgt Ion: 83 Resp: 56557

Ion Ratio Lower Upper

83 100

85 55.3 47.7 71.5



#27

1,2-Dichloroethane-d4

Concen: 29.099 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN087768.D

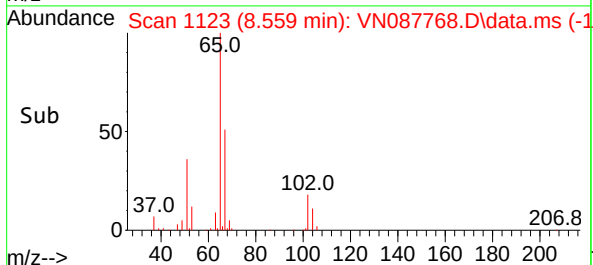
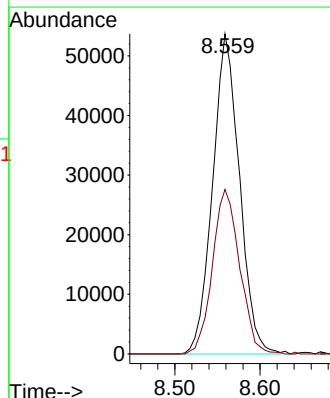
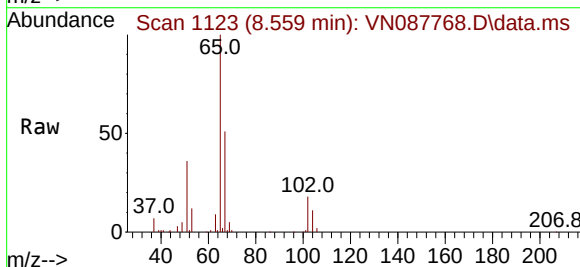
Acq: 09 Sep 2025 11:42

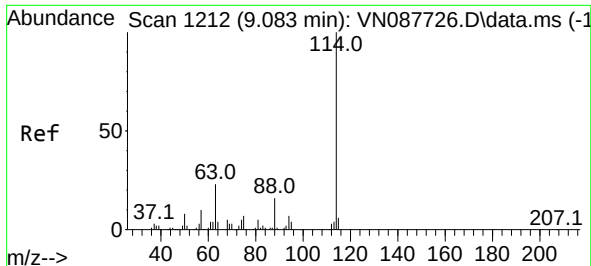
Tgt Ion: 65 Resp: 117289

Ion Ratio Lower Upper

65 100

67 52.1 39.6 59.4





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087768.D

Acq: 09 Sep 2025 11:42

Instrument :

MSVOA_N

ClientSampleId :

001 willets Pt Blvd(july)

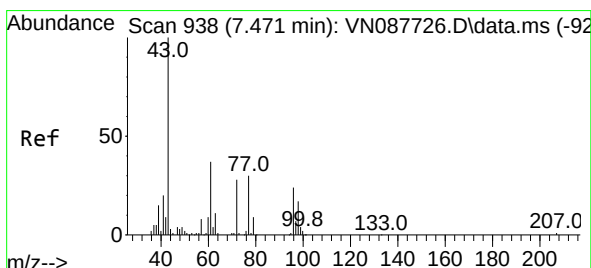
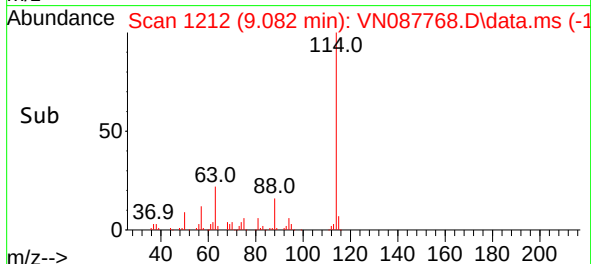
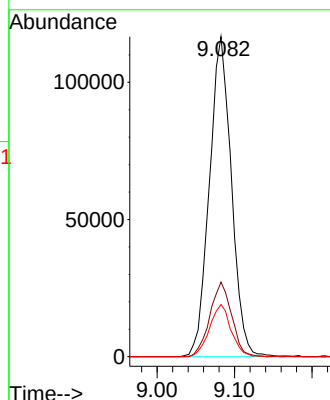
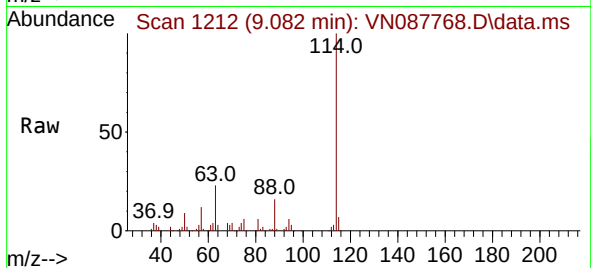
Tgt Ion:114 Resp: 230306

Ion Ratio Lower Upper

114 100

63 23.0 18.3 27.5

88 15.9 12.4 18.6



#30

2-Butanone

Concen: 3.084 ug/l

RT: 7.482 min Scan# 940

Delta R.T. 0.012 min

Lab File: VN087768.D

Acq: 09 Sep 2025 11:42

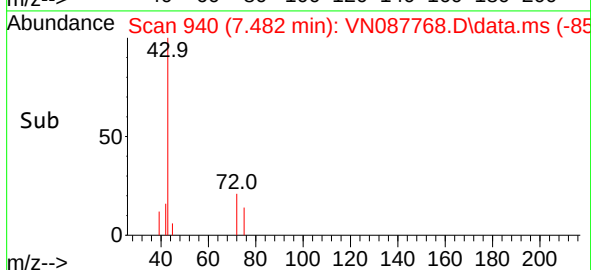
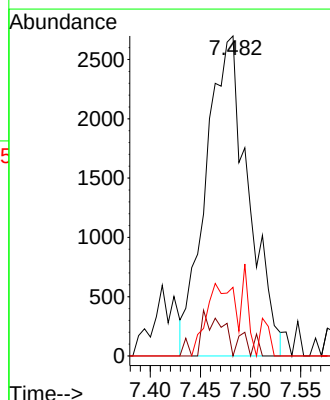
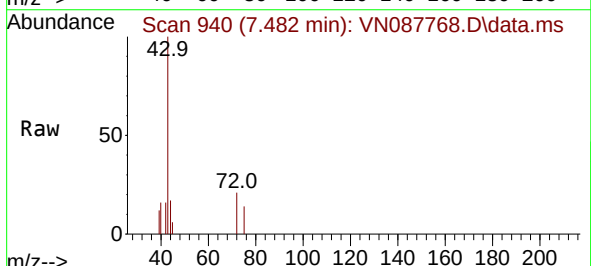
Tgt Ion: 43 Resp: 7951

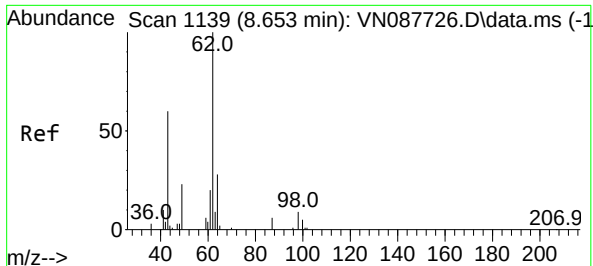
Ion Ratio Lower Upper

43 100

57 0.0 6.3 9.5#

72 5.8 21.4 32.2#





#36

1,2-Dichloroethane

Concen: 1.902 ug/l

RT: 9.076 min Scan# 1139

Delta R.T. 0.423 min

Lab File: VN087768.D

Acq: 09 Sep 2025 11:42

Instrument :

MSVOA_N

ClientSampleId :

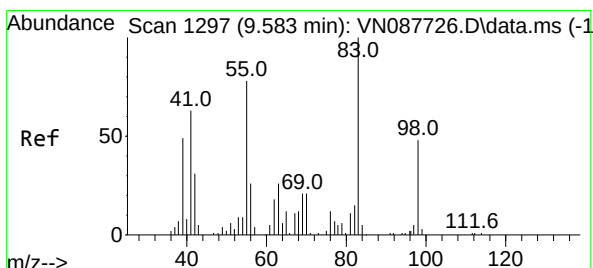
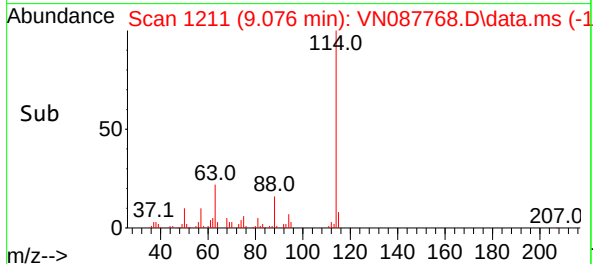
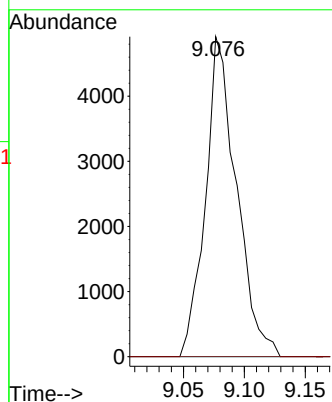
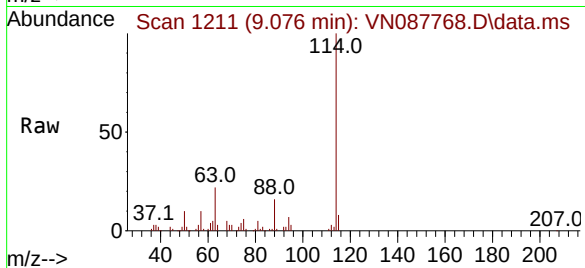
001 willets Pt Blvd(july)

Tgt Ion: 62 Resp: 8689

Ion Ratio Lower Upper

62 100

98 0.0 7.2 10.8#



#38

Methylcyclohexane

Concen: 1.164 ug/l

RT: 9.859 min Scan# 1344

Delta R.T. 0.276 min

Lab File: VN087768.D

Acq: 09 Sep 2025 11:42

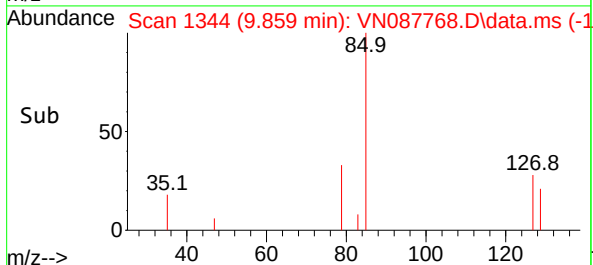
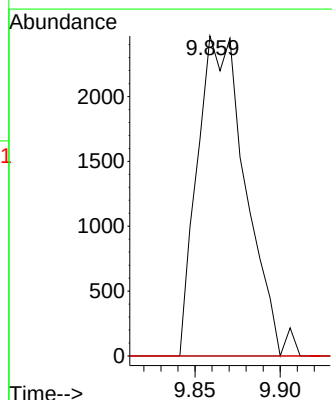
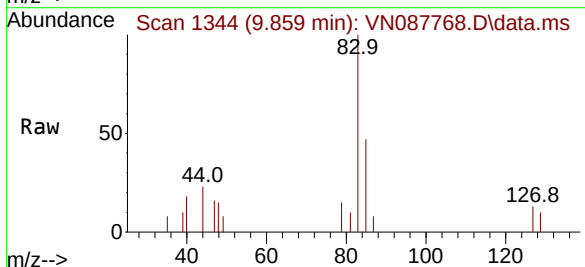
Tgt Ion: 83 Resp: 4798

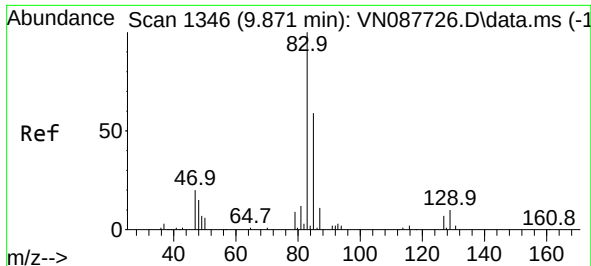
Ion Ratio Lower Upper

83 100

55 4.5 40.4 121.1#

98 0.0 24.0 72.0#

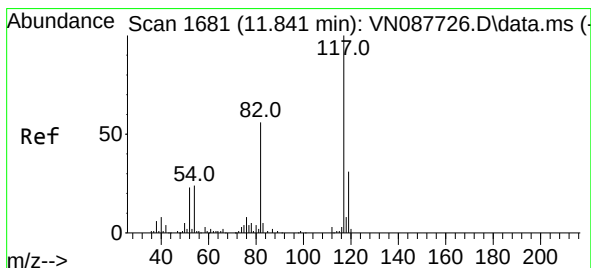
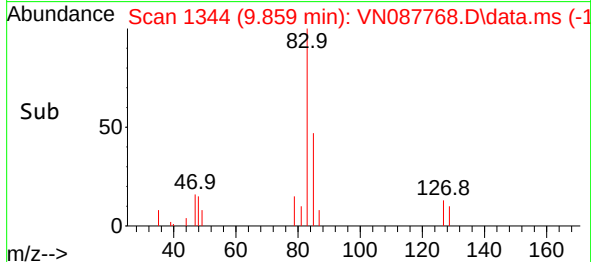
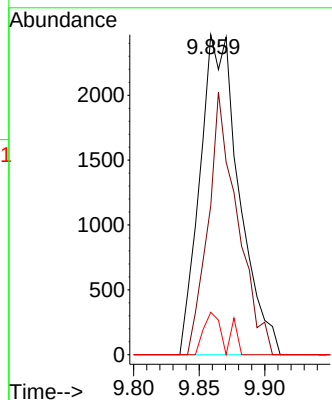
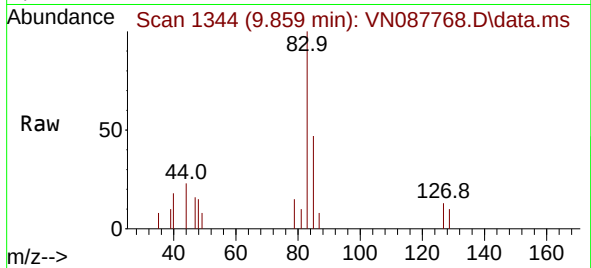




#41
Bromodichloromethane
Concen: 1.089 ug/l
RT: 9.859 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN087768.D
Acq: 09 Sep 2025 11:42

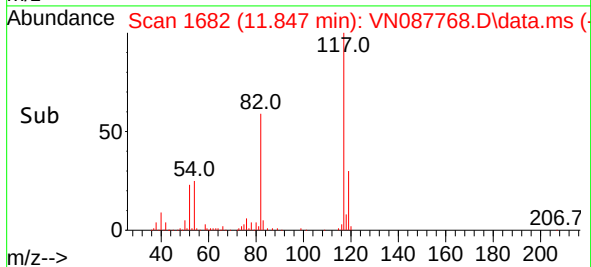
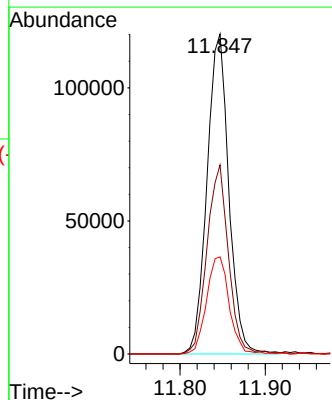
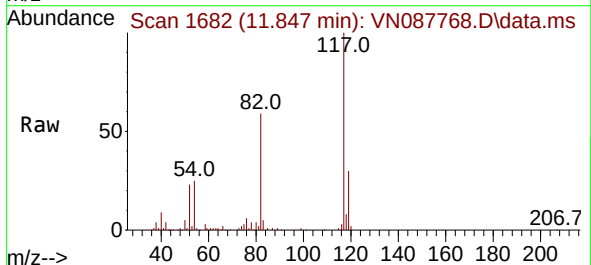
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

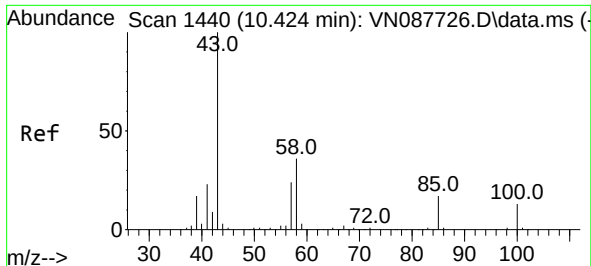
Tgt Ion: 83 Resp: 5134
Ion Ratio Lower Upper
83 100
85 46.6 47.3 70.9#
127 13.3 5.2 7.8#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087768.D
Acq: 09 Sep 2025 11:42

Tgt Ion: 117 Resp: 213828
Ion Ratio Lower Upper
117 100
82 57.9 45.9 68.9
119 31.6 25.3 37.9

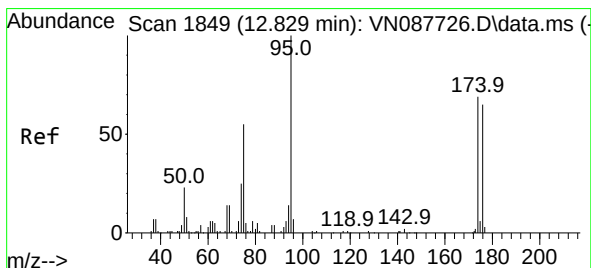
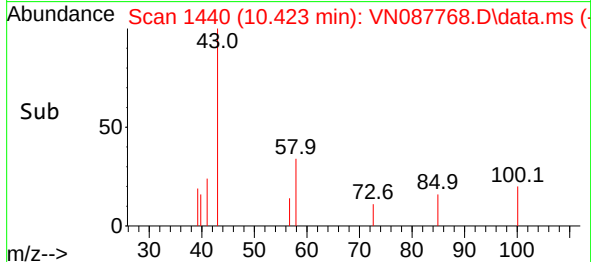
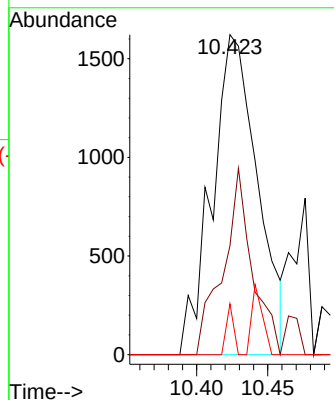
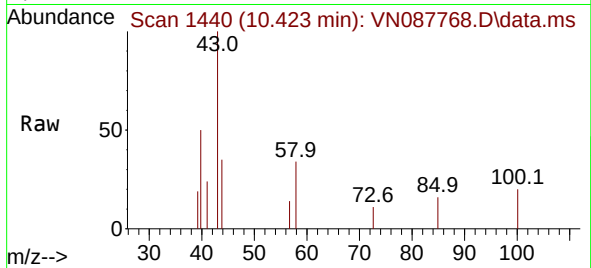




#58
4-Methyl-2-Pentanone
Concen: 0.716 ug/l
RT: 10.423 min Scan# 1440
Delta R.T. -0.000 min
Lab File: VN087768.D
Acq: 09 Sep 2025 11:42

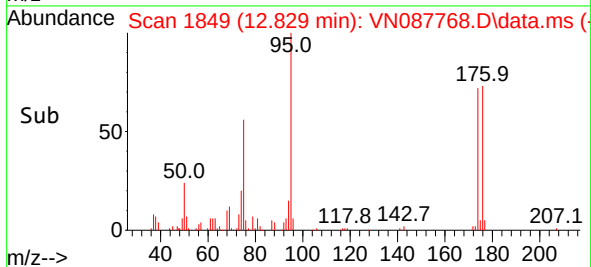
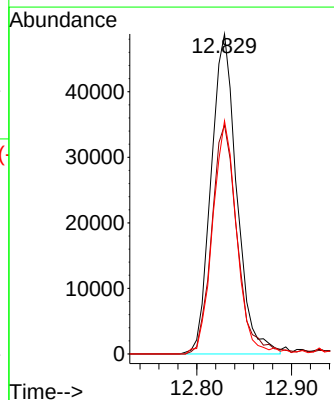
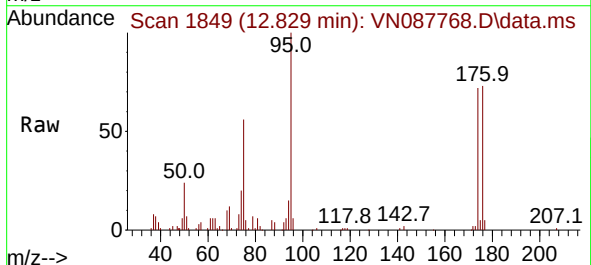
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

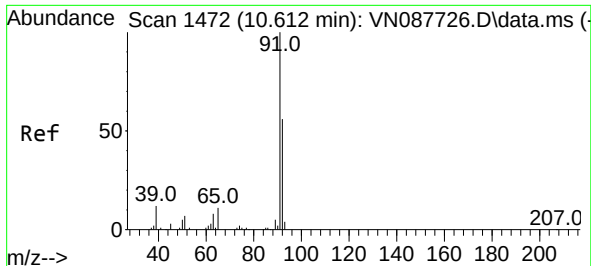
Tgt Ion: 43 Resp: 3618
Ion Ratio Lower Upper
43 100
58 37.3 29.6 44.4
85 5.2 13.0 19.4#



#60
4-Bromofluorobenzene
Concen: 26.673 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087768.D
Acq: 09 Sep 2025 11:42

Tgt Ion: 95 Resp: 91708
Ion Ratio Lower Upper
95 100
174 71.4 55.4 83.0
176 67.6 51.5 77.3

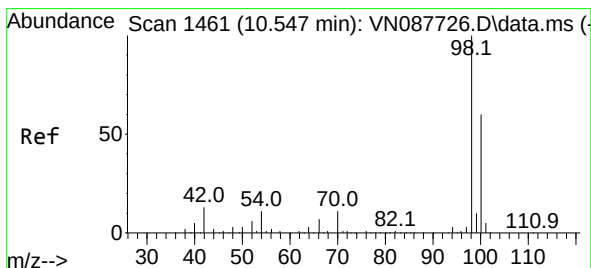
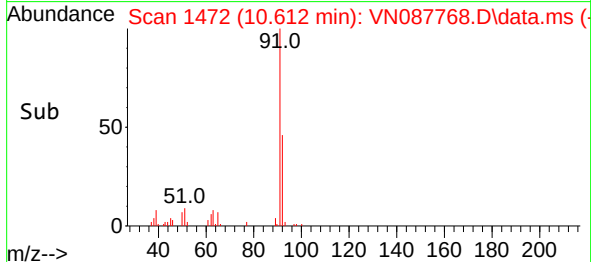
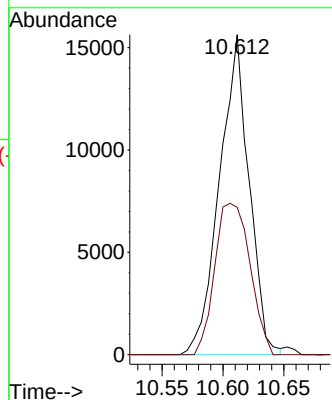
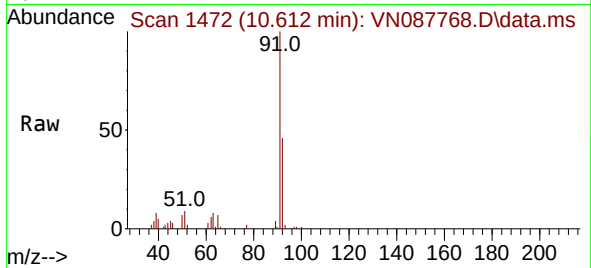




#62
Toluene
Concen: 2.043 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VN087768.D
Acq: 09 Sep 2025 11:42

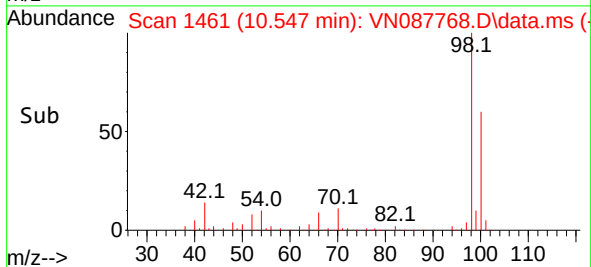
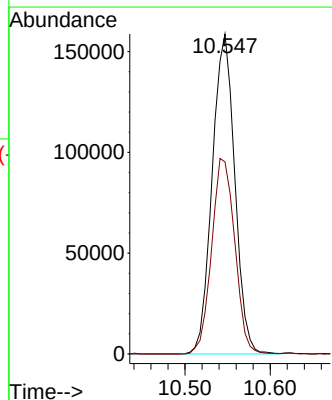
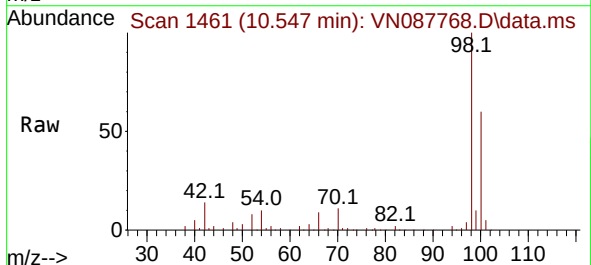
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

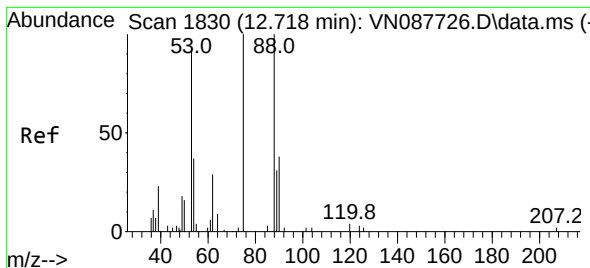
Tgt Ion: 91 Resp: 26425
Ion Ratio Lower Upper
91 100
92 56.3 45.4 68.0



#63
Toluene-d8
Concen: 29.377 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087768.D
Acq: 09 Sep 2025 11:42

Tgt Ion: 98 Resp: 292130
Ion Ratio Lower Upper
98 100
100 62.7 50.6 76.0

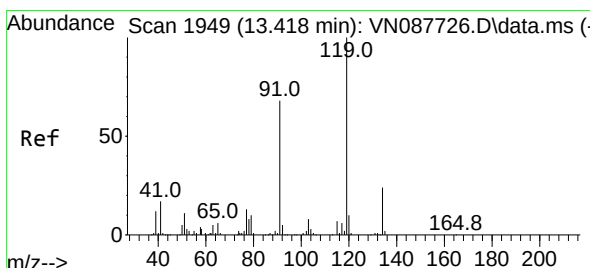
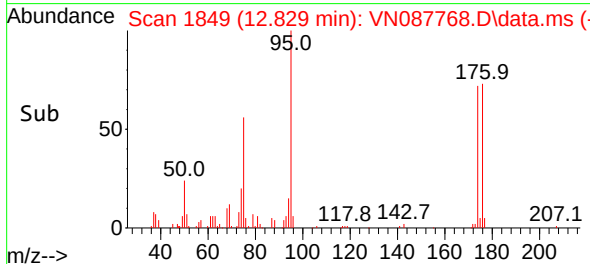
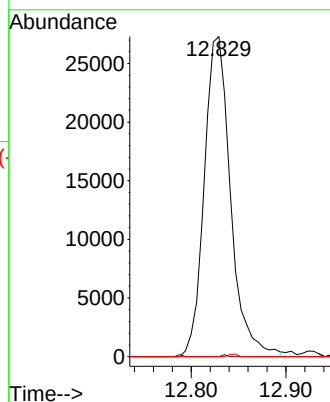
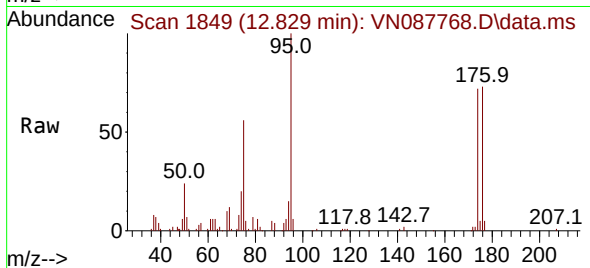




#77
t-1,4-Dichloro-2-butene
Concen: 34.744 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN087768.D
Acq: 09 Sep 2025 11:42

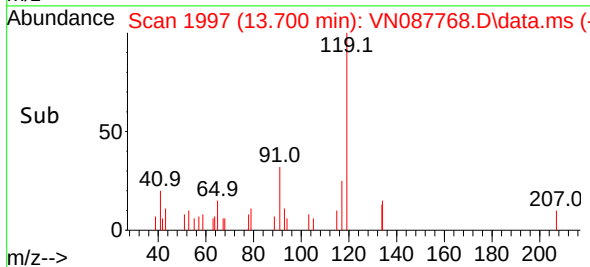
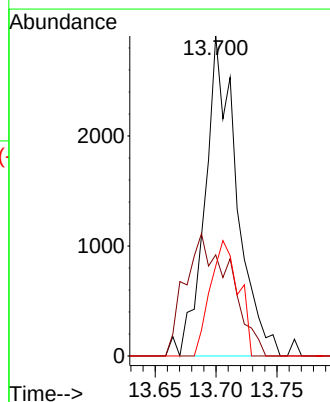
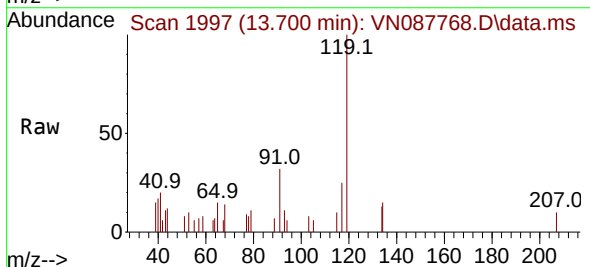
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

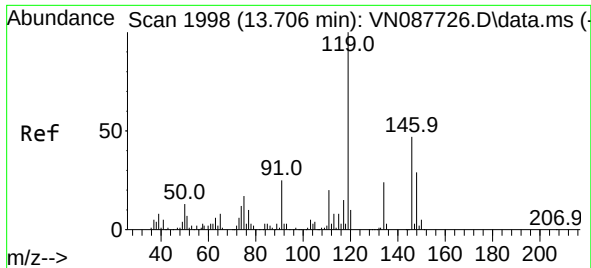
Tgt Ion: 75 Resp: 52712
Ion Ratio Lower Upper
75 100
53 0.0 45.3 135.9#
89 0.0 18.8 56.3#



#79
tert-butylbenzene
Concen: 0.581 ug/l
RT: 13.700 min Scan# 1997
Delta R.T. 0.282 min
Lab File: VN087768.D
Acq: 09 Sep 2025 11:42

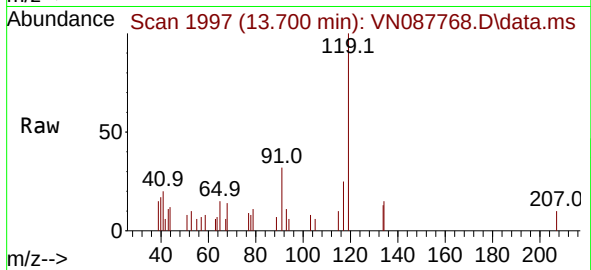
Tgt Ion: 119 Resp: 5234
Ion Ratio Lower Upper
119 100
91 54.8 0.0 142.6
134 32.3 0.0 47.2





#82
 p-Isopropyltoluene
 Concen: 0.480 ug/l
 RT: 13.700 min Scan# 1997
 Delta R.T. -0.006 min
 Lab File: VN087768.D
 Acq: 09 Sep 2025 11:42

Instrument :
 MSVOA_N
 ClientSampleId :
 001 willets Pt Blvd(july)



Tgt Ion:	119	Resp:	5234
Ion	Ratio	Lower	Upper
119	100		
134	32.3	0.0	49.4
91	54.8	0.0	52.2#

