

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN073025\
 Data File : VN087443.D
 Acq On : 30 Jul 2025 14:27
 Operator : JC\MD
 Sample : Q2730-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

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

Quant Time: Jul 31 01:15:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jul 28 11:35:47 2025
 Response via : Initial Calibration

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

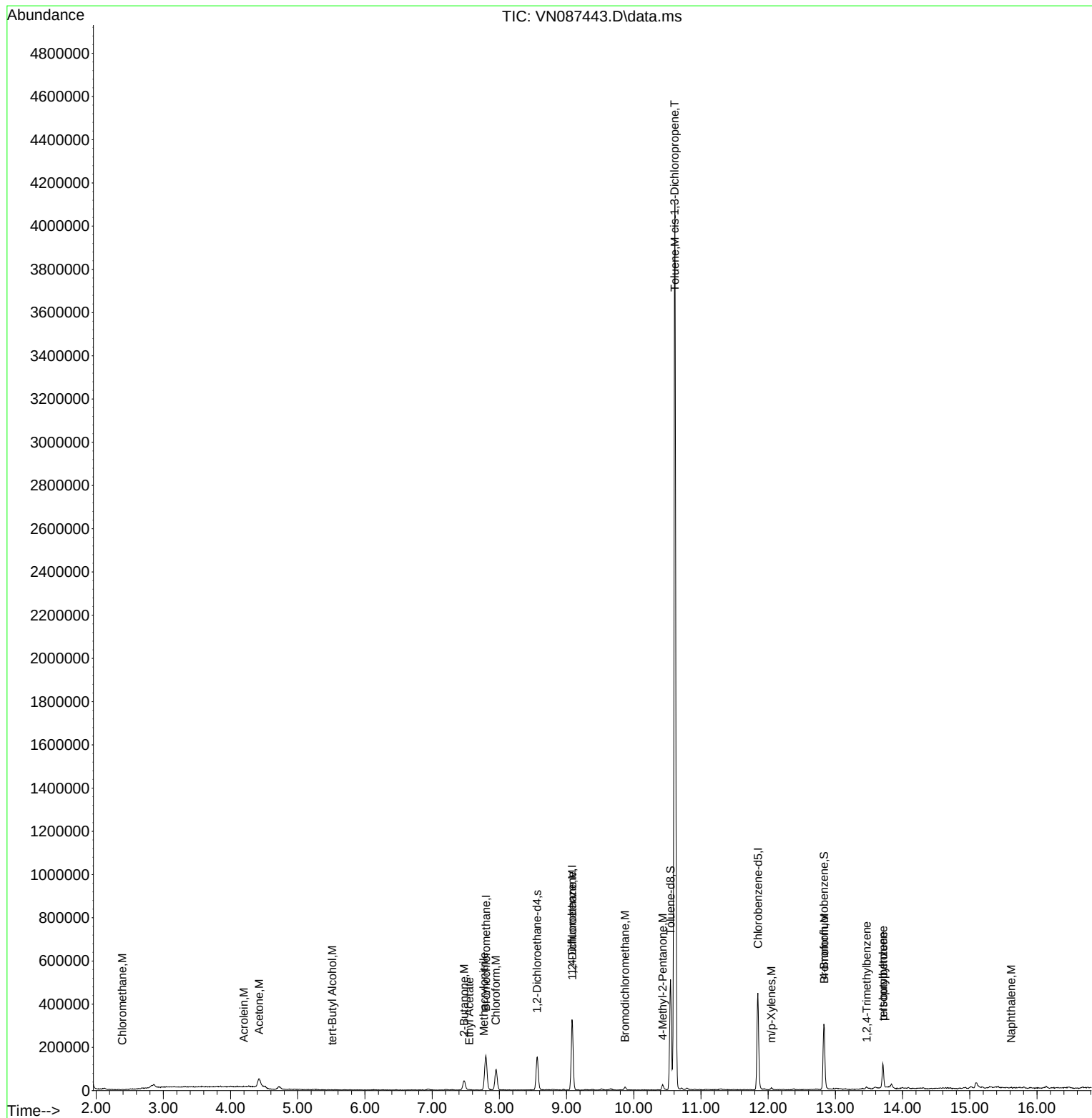
Internal Standards						
1) Bromochloromethane	7.800	128	49168	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	264953	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	240837	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	116096	30.878	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.933%
60) 4-Bromofluorobenzene	12.829	95	103589	26.193	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	87.300%
63) Toluene-d8	10.547	98	331290	29.953	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.833%
Target Compounds						
					Qvalue	
3) Chloromethane	2.389	50	676	0.222	ug/l	93
13) Acrolein	4.200	56	575	1.537	ug/l	94
15) Acetone	4.424	58	19995	43.380	ug/l	84
23) tert-Butyl Alcohol	5.512	59	370	0.480	ug/l #	100
25) Chloroform	7.947	83	90180	15.805	ug/l	96
30) 2-Butanone	7.477	43	72833	26.727	ug/l #	79
35) Methacrylonitrile	7.771	41	1640	0.525	ug/l #	30
36) 1,2-Dichloroethane	9.088	62	10873	2.656	ug/l #	100
41) Bromodichloromethane	9.871	83	8544	1.932	ug/l	97
43) Ethyl Acetate	7.553	43	1585	0.284	ug/l #	80
49) cis-1,3-Dichloropropene	10.606	75	21517	4.116	ug/l #	1
56) Bromoform	12.835	173	1261	0.536	ug/l #	1
58) 4-Methyl-2-Pentanone	10.429	43	20678	3.812	ug/l #	90
62) Toluene	10.612	91	2971705	218.638	ug/l	100
67) m/p-Xylenes	12.047	106	2037	0.366	ug/l	90
79) tert-butylbenzene	13.711	119	64602	6.455	ug/l	60
80) 1,2,4-Trimethylbenzene	13.464	105	3956	0.344	ug/l	63
82) p-Isopropyltoluene	13.711	119	64602	5.354	ug/l	98
91) Naphthalene	15.617	128	3249	0.236	ug/l	95

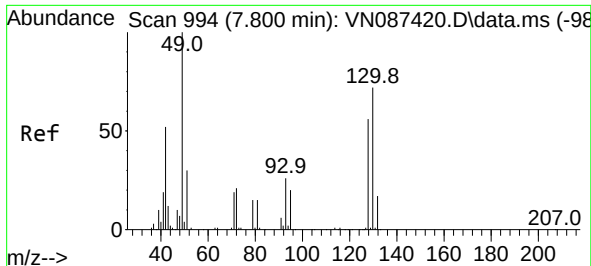
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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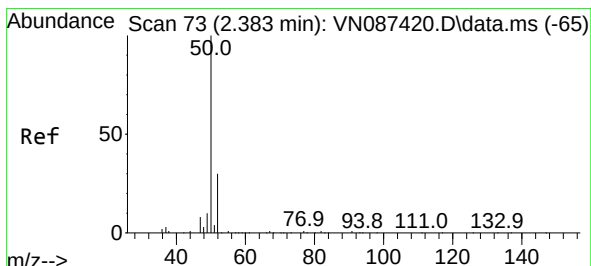
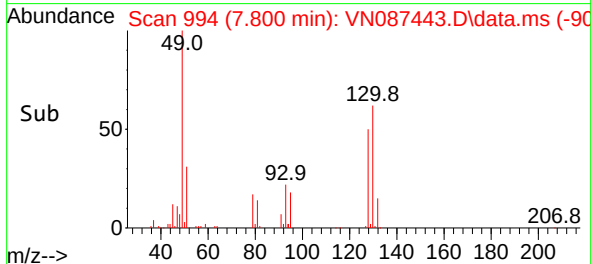
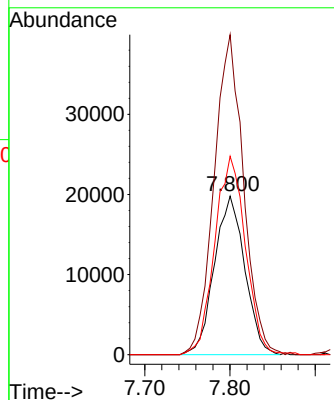
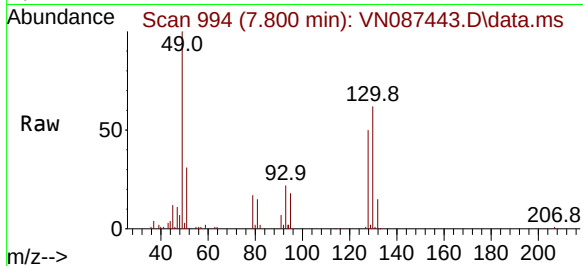




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087443.D
Acq: 30 Jul 2025 14:27

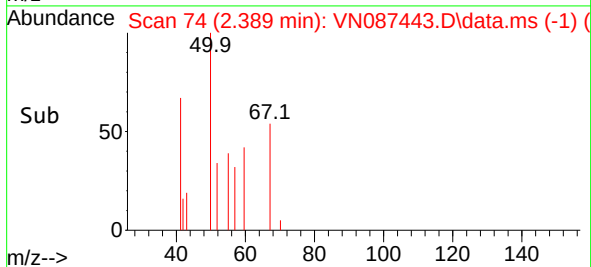
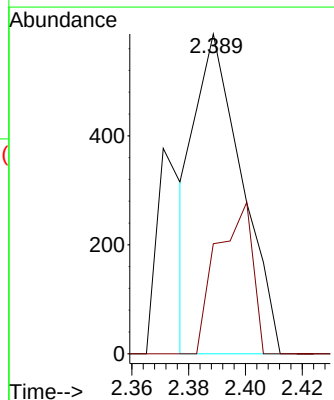
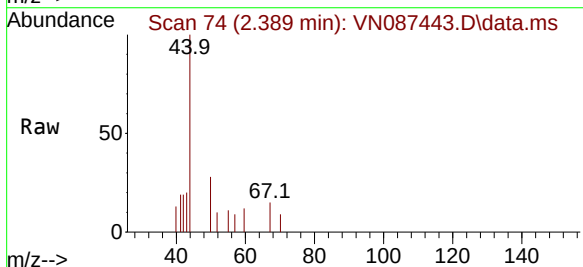
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

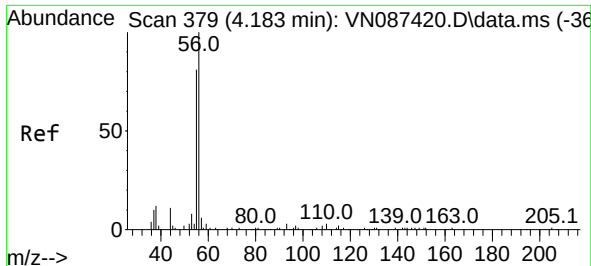
Tgt Ion:128 Resp: 49168
Ion Ratio Lower Upper
128 100
49 194.8 0.0 457.3
130 126.1 0.0 316.0



#3
Chloromethane
Concen: 0.222 ug/l
RT: 2.389 min Scan# 74
Delta R.T. 0.006 min
Lab File: VN087443.D
Acq: 30 Jul 2025 14:27

Tgt Ion: 50 Resp: 676
Ion Ratio Lower Upper
50 100
52 34.4 24.3 36.5

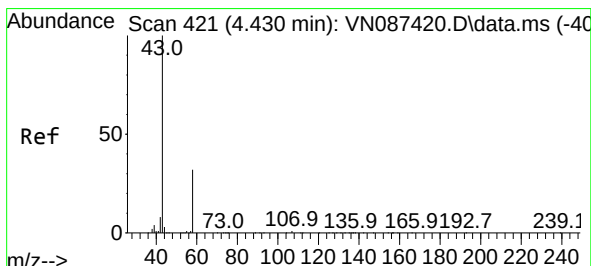
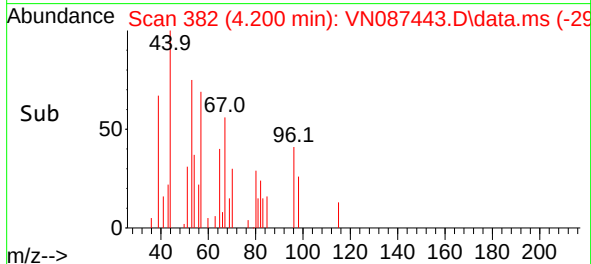
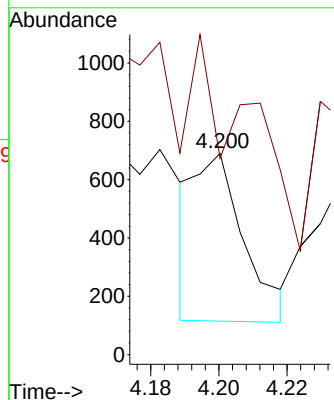
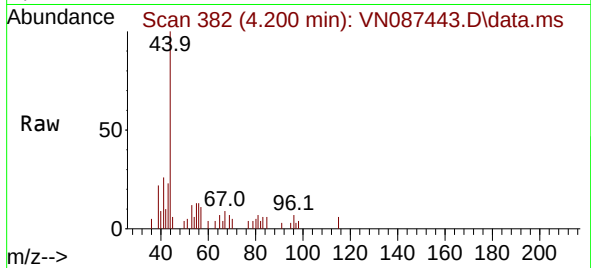




#13
Acrolein
Concen: 1.537 ug/l
RT: 4.200 min Scan# 31
Delta R.T. 0.018 min
Lab File: VN087443.D
Acq: 30 Jul 2025 14:27

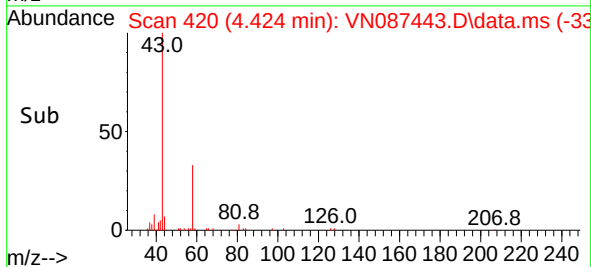
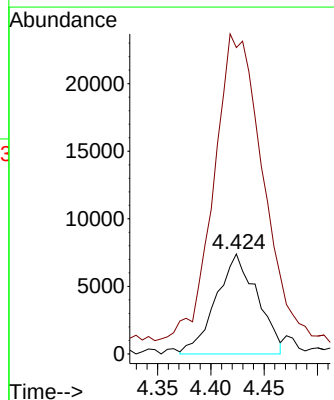
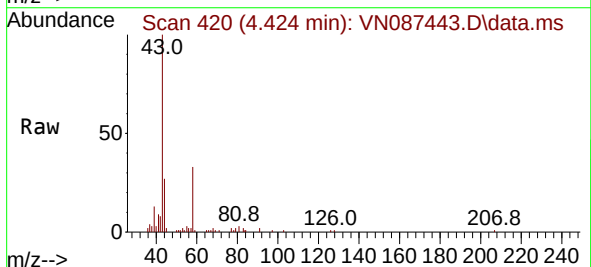
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

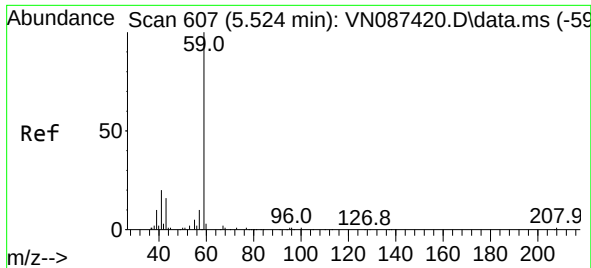
Tgt Ion: 56 Resp: 575
Ion Ratio Lower Upper
56 100
55 78.8 58.9 88.3



#15
Acetone
Concen: 43.380 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN087443.D
Acq: 30 Jul 2025 14:27

Tgt Ion: 58 Resp: 19995
Ion Ratio Lower Upper
58 100
43 279.1 248.4 372.6

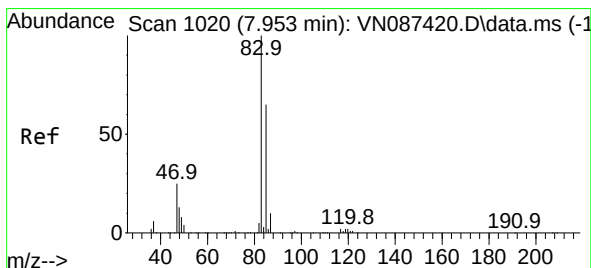
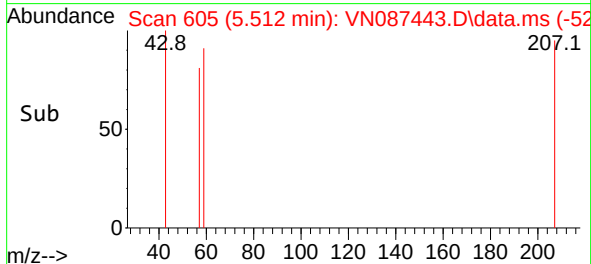
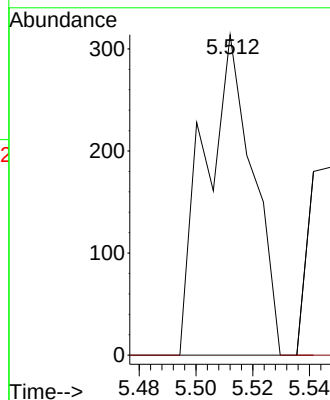
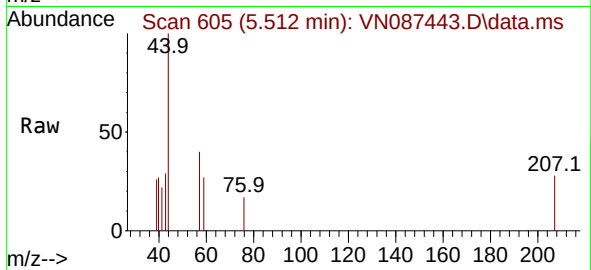




#23
tert-Butyl Alcohol
Concen: 0.480 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.012 min
Lab File: VN087443.D
Acq: 30 Jul 2025 14:27

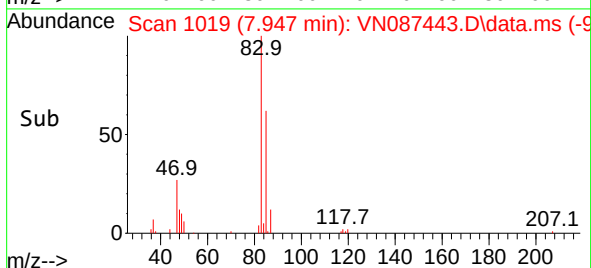
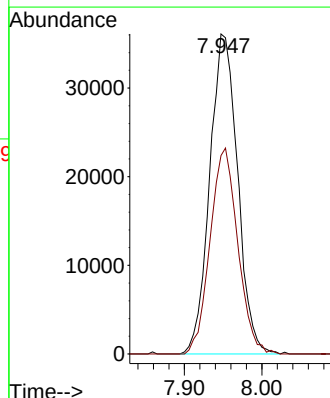
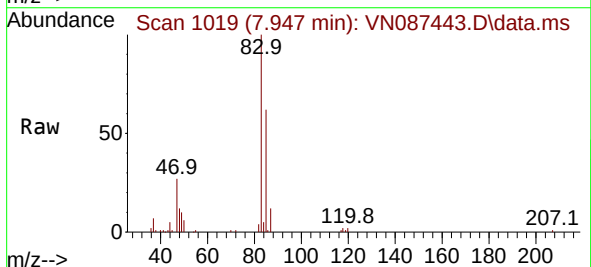
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

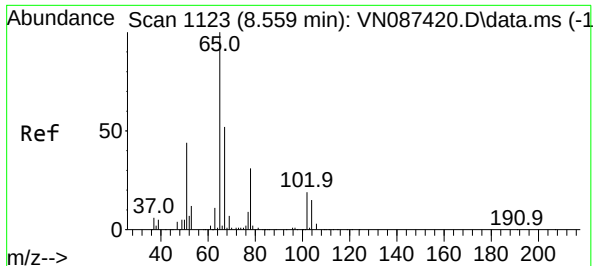
Tgt Ion: 59 Resp: 370
Ion Ratio Lower Upper
59 100
52 0.0 0.2 0.2#



#25
Chloroform
Concen: 15.805 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. -0.006 min
Lab File: VN087443.D
Acq: 30 Jul 2025 14:27

Tgt Ion: 83 Resp: 90180
Ion Ratio Lower Upper
83 100
85 62.0 52.0 78.0





#27

1,2-Dichloroethane-d4

Concen: 30.878 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN087443.D

Acq: 30 Jul 2025 14:27

Instrument :

MSVOA_N

ClientSampleId :

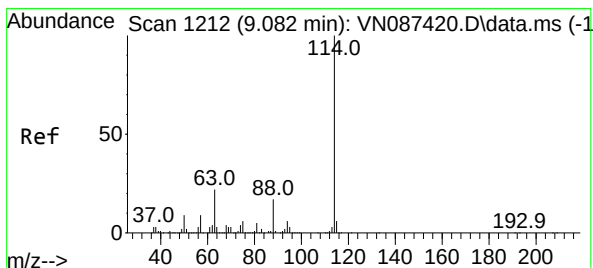
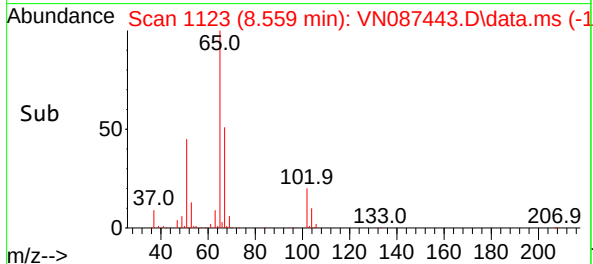
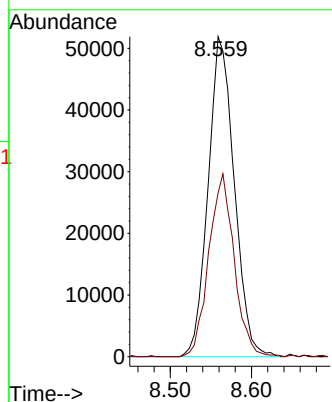
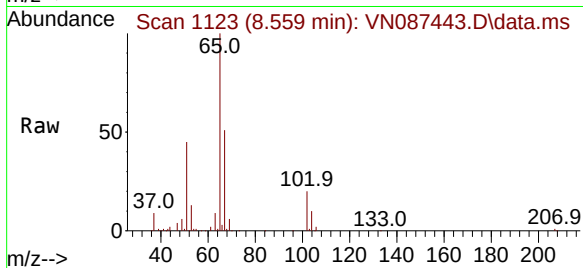
001 willets Pt Blvd(july)

Tgt Ion: 65 Resp: 116096

Ion Ratio Lower Upper

65 100

67 55.4 42.3 63.5



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087443.D

Acq: 30 Jul 2025 14:27

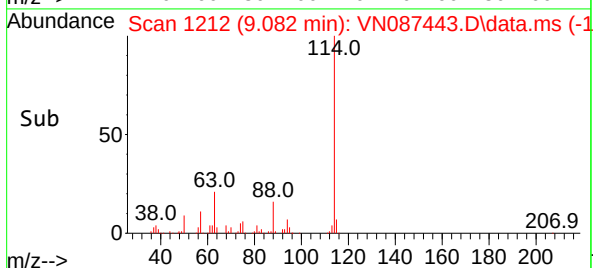
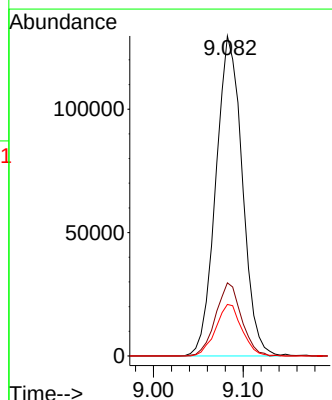
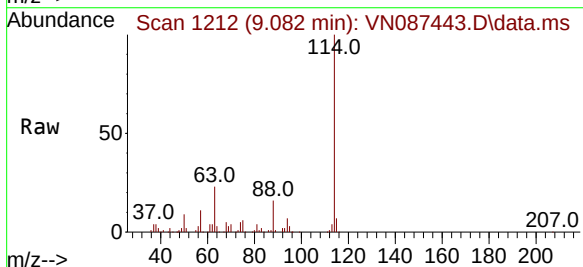
Tgt Ion: 114 Resp: 264953

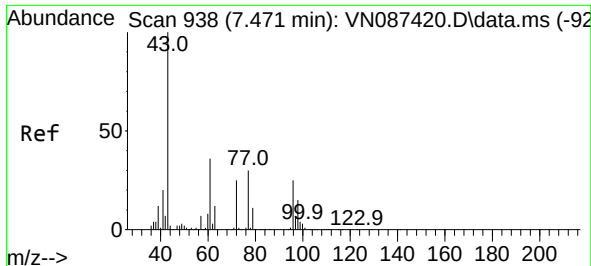
Ion Ratio Lower Upper

114 100

63 22.2 17.8 26.6

88 15.9 13.0 19.4

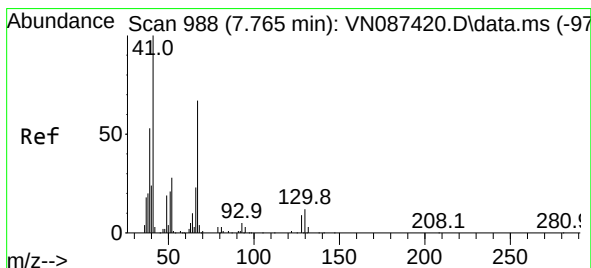
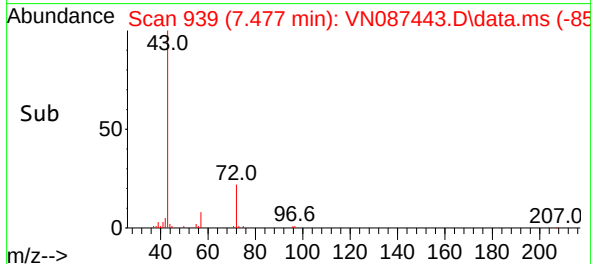
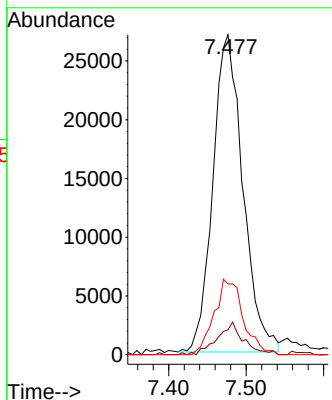
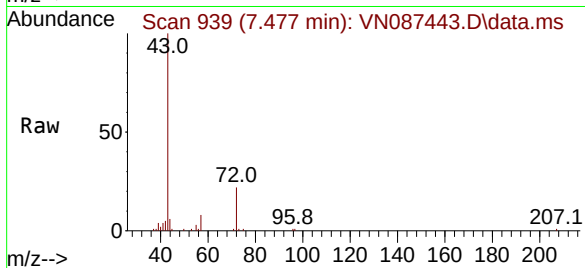




#30
2-Butanone
Concen: 26.727 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087443.D
Acq: 30 Jul 2025 14:27

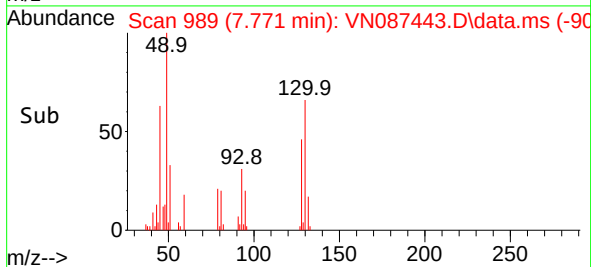
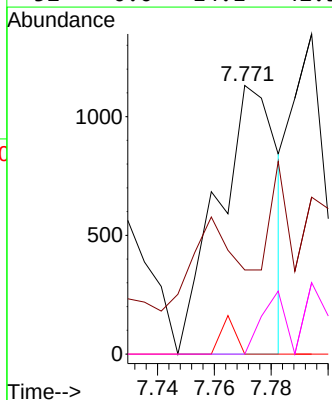
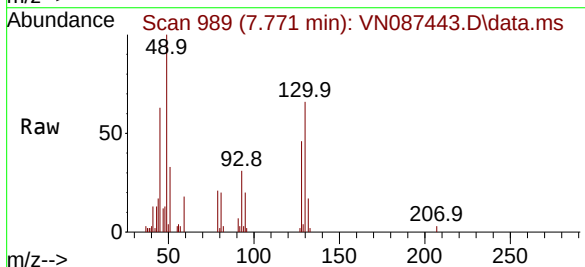
Instrument :
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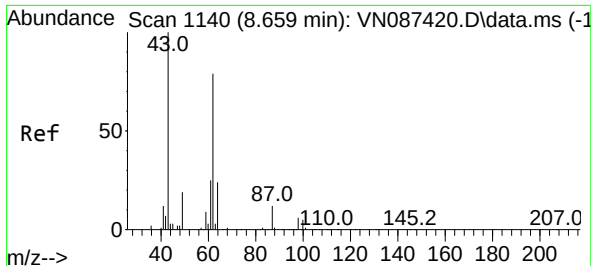
Tgt Ion: 43 Resp: 72833
Ion Ratio Lower Upper
43 100
57 8.6 6.0 9.0
72 12.2 20.3 30.5#



#35
Methacrylonitrile
Concen: 0.525 ug/l
RT: 7.771 min Scan# 989
Delta R.T. 0.006 min
Lab File: VN087443.D
Acq: 30 Jul 2025 14:27

Tgt Ion: 41 Resp: 1640
Ion Ratio Lower Upper
41 100
39 9.0 26.7 80.1#
67 0.0 33.5 100.4#
52 0.0 14.1 42.3#





#36

1,2-Dichloroethane

Concen: 2.656 ug/l

RT: 9.088 min Scan# 1140

Delta R.T. 0.429 min

Lab File: VN087443.D

Acq: 30 Jul 2025 14:27

Instrument :

MSVOA_N

ClientSampleId :

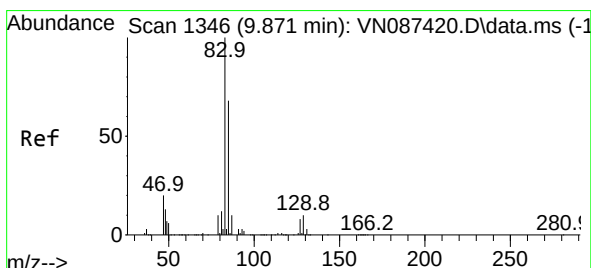
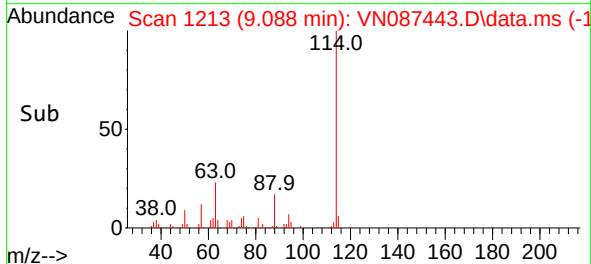
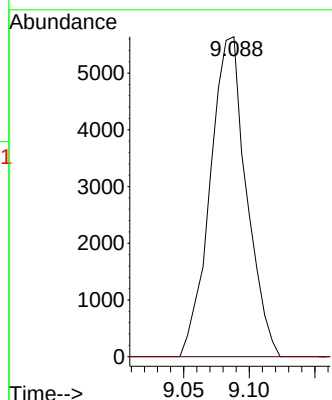
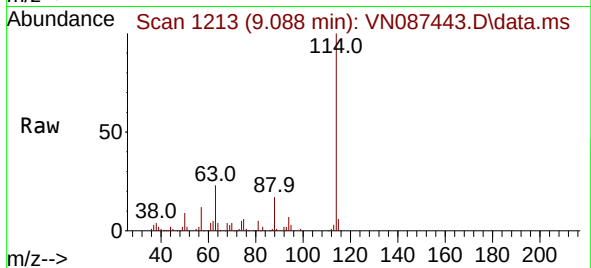
001 willets Pt Blvd(july)

Tgt Ion: 62 Resp: 10873

Ion Ratio Lower Upper

62 100

98 0.0 0.2 0.2#



#41

Bromodichloromethane

Concen: 1.932 ug/l

RT: 9.871 min Scan# 1346

Delta R.T. -0.000 min

Lab File: VN087443.D

Acq: 30 Jul 2025 14:27

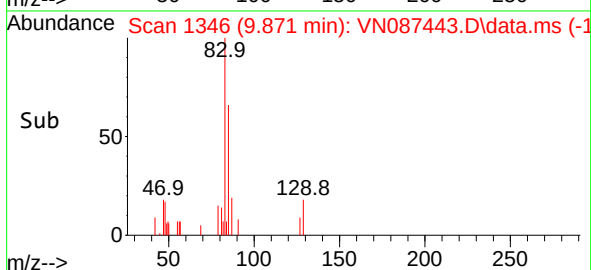
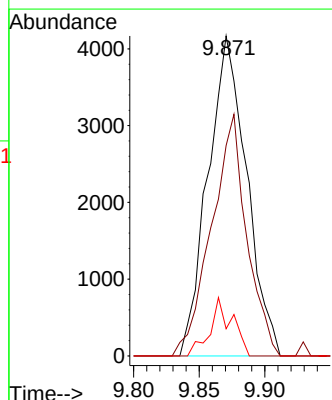
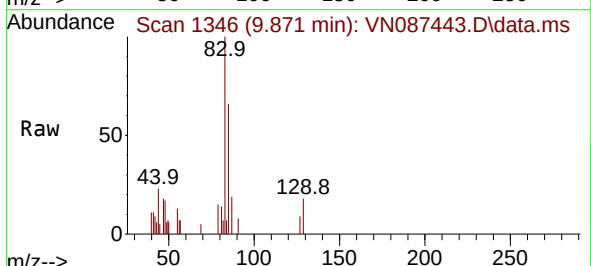
Tgt Ion: 83 Resp: 8544

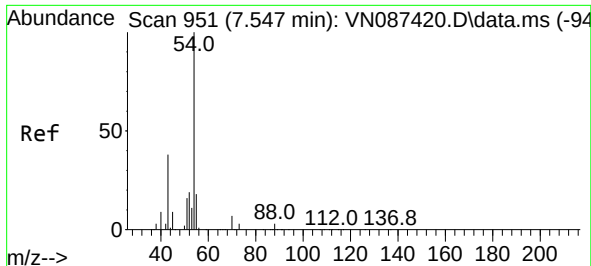
Ion Ratio Lower Upper

83 100

85 65.8 54.5 81.7

127 8.5 6.6 10.0

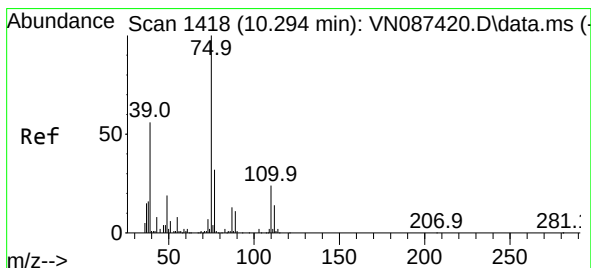
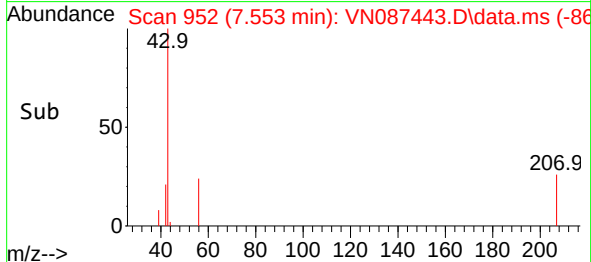
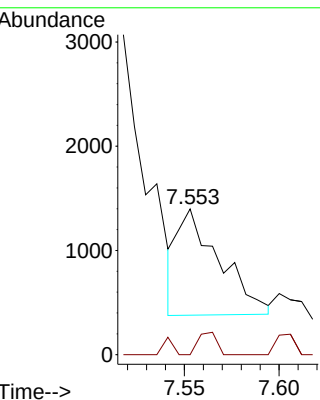
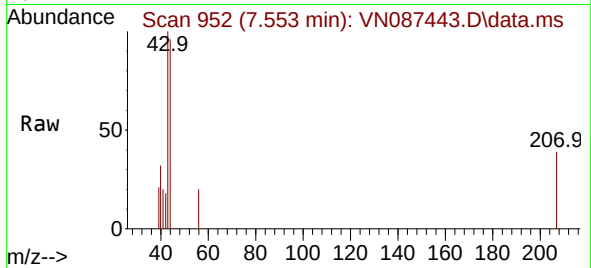




#43
Ethyl Acetate
Concen: 0.284 ug/l
RT: 7.553 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087443.D
Acq: 30 Jul 2025 14:27

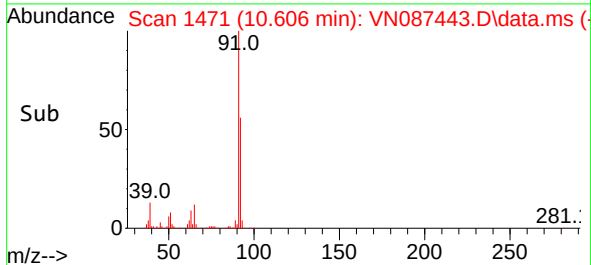
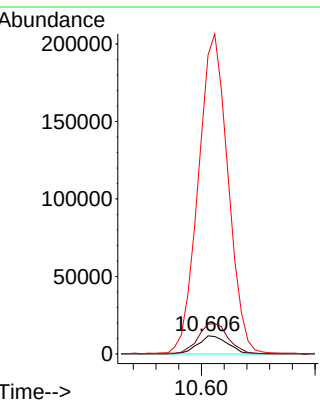
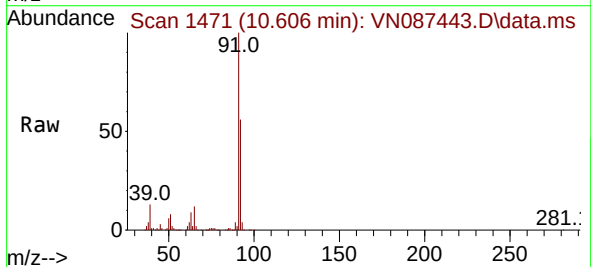
Instrument :
MSVOA_N
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001 willets Pt Blvd(july)

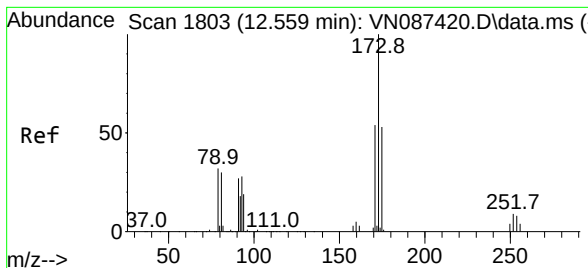
Tgt Ion: 43 Resp: 1585
Ion Ratio Lower Upper
43 100
45 9.1 1.6 2.4#



#49
cis-1,3-Dichloropropene
Concen: 4.116 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. 0.312 min
Lab File: VN087443.D
Acq: 30 Jul 2025 14:27

Tgt Ion: 75 Resp: 21517
Ion Ratio Lower Upper
75 100
77 161.2 26.1 39.1#
39 1650.9 45.0 67.4#





#56

Bromoform

Concen: 0.536 ug/l

RT: 12.835 min Scan# 11

Delta R.T. 0.276 min

Lab File: VN087443.D

Acq: 30 Jul 2025 14:27

Instrument :

MSVOA_N

ClientSampleId :

001 willets Pt Blvd(july)

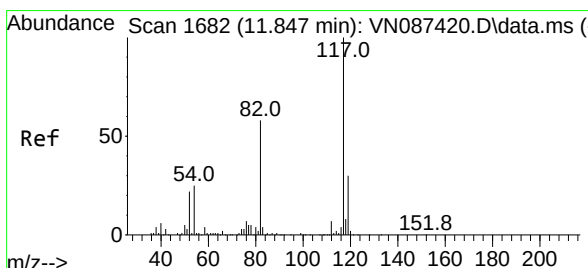
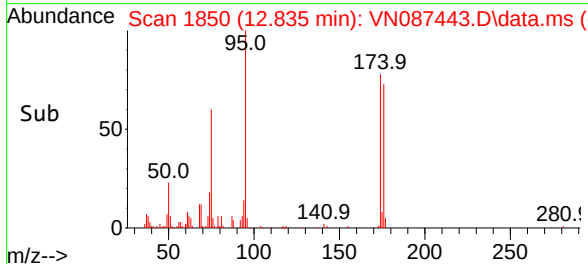
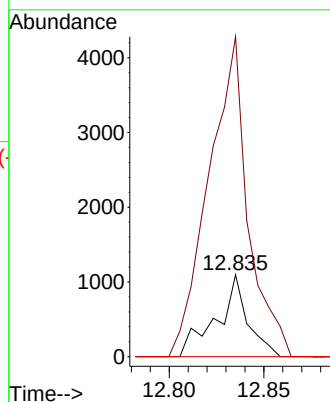
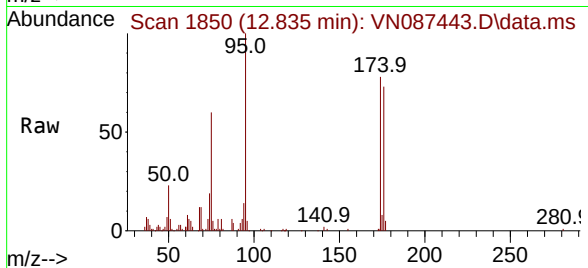
Tgt Ion:173 Resp: 1261

Ion Ratio Lower Upper

173 100

175 489.5 38.4 57.6#

254 0.0 6.4 9.6#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.847 min Scan# 1682

Delta R.T. -0.000 min

Lab File: VN087443.D

Acq: 30 Jul 2025 14:27

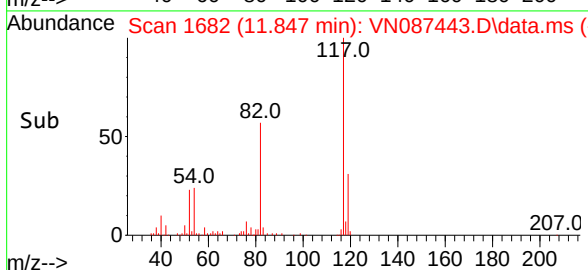
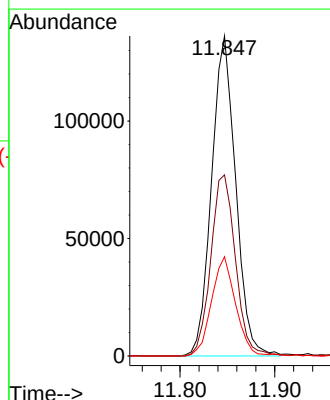
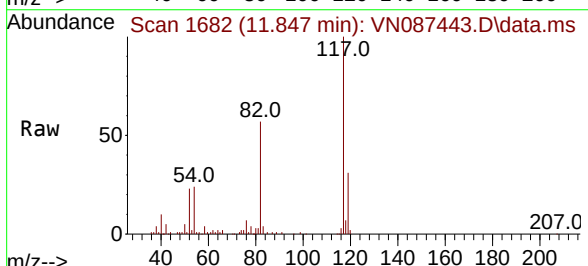
Tgt Ion:117 Resp: 240837

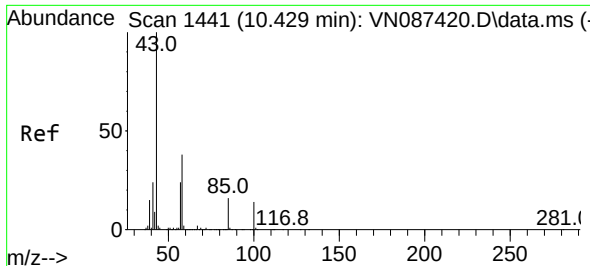
Ion Ratio Lower Upper

117 100

82 57.8 46.2 69.4

119 30.8 25.7 38.5

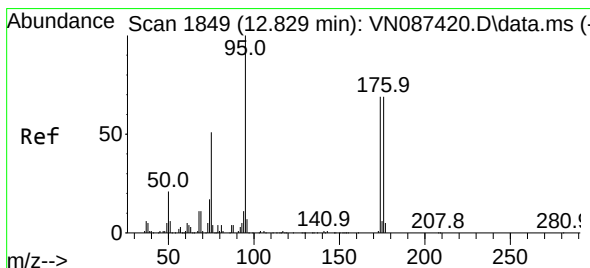
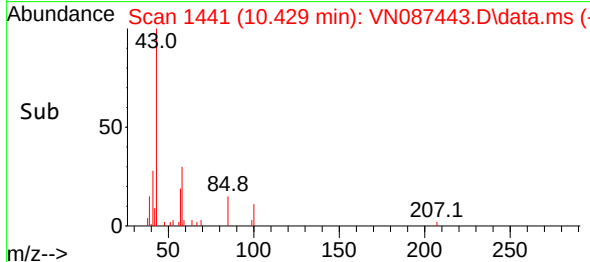
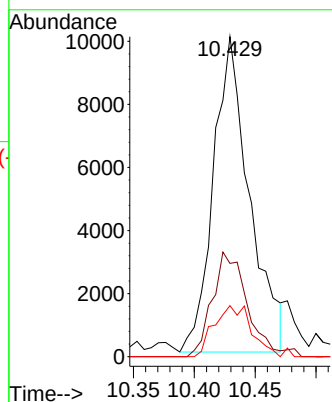
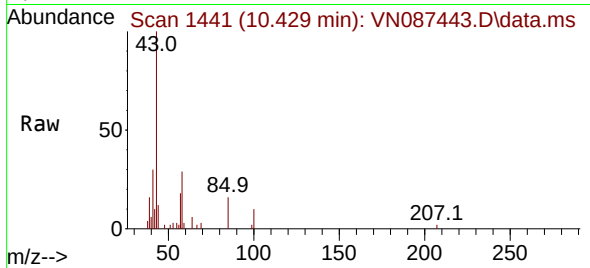




#58
4-Methyl-2-Pentanone
Concen: 3.812 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. -0.000 min
Lab File: VN087443.D
Acq: 30 Jul 2025 14:27

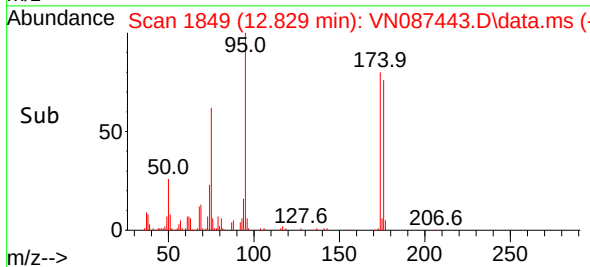
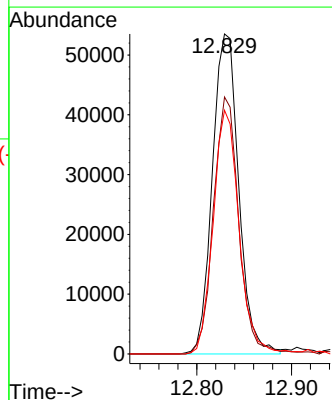
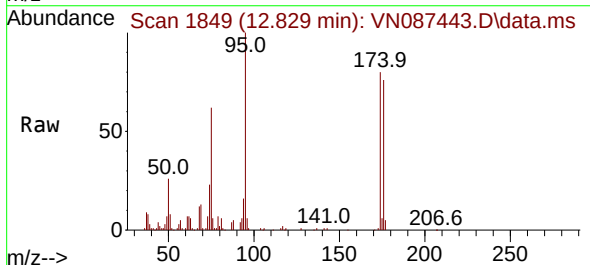
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

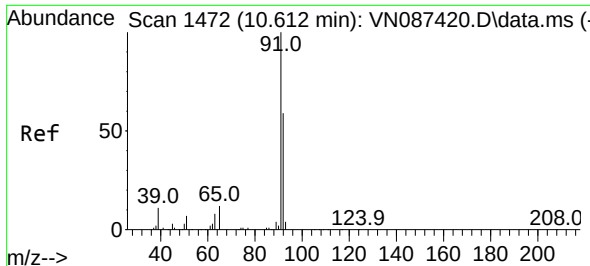
Tgt Ion:	43	Resp:	20678
Ion	Ratio	Lower	Upper
43	100		
58	31.6	29.9	44.9
85	10.9	12.8	19.2



#60
4-Bromofluorobenzene
Concen: 26.193 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087443.D
Acq: 30 Jul 2025 14:27

Tgt Ion:	95	Resp:	103589
Ion	Ratio	Lower	Upper
95	100		
174	76.5	57.8	86.8
176	74.4	54.9	82.3

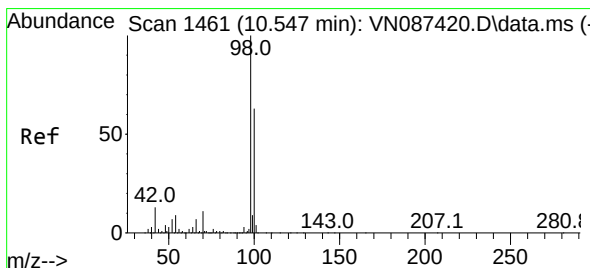
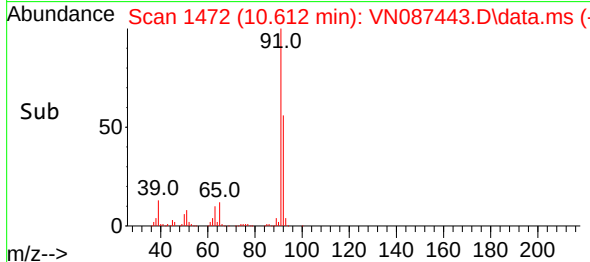
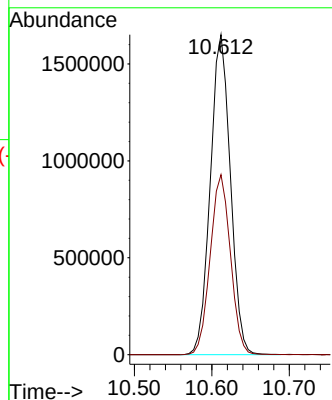
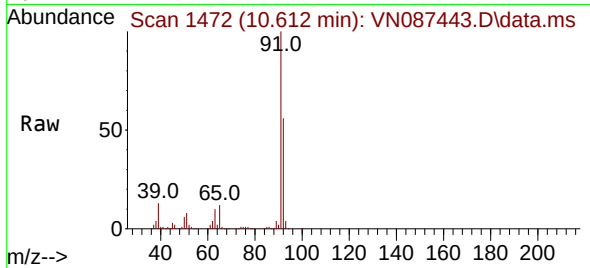




#62
Toluene
Concen: 218.638 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VN087443.D
Acq: 30 Jul 2025 14:27

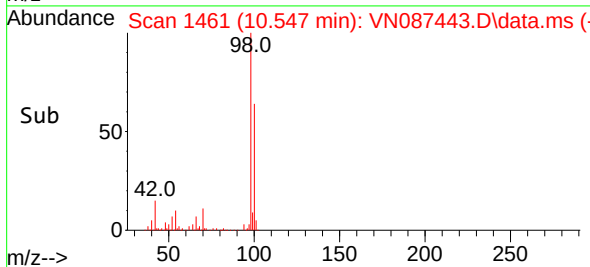
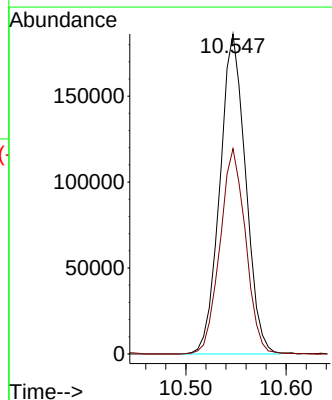
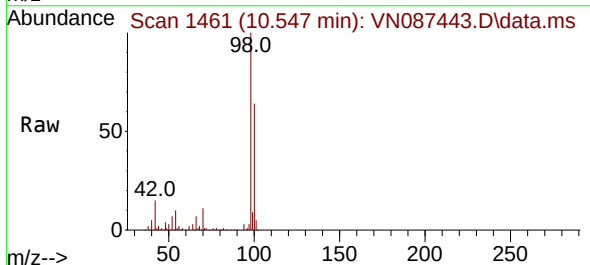
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

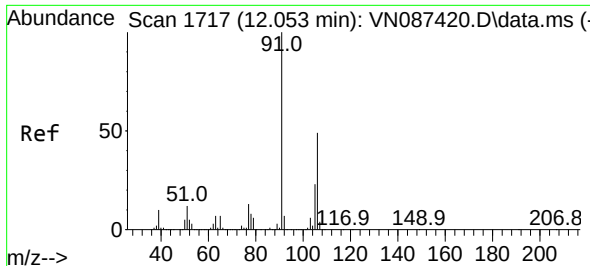
Tgt Ion: 91 Resp: 2971705
Ion Ratio Lower Upper
91 100
92 56.6 45.6 68.4



#63
Toluene-d8
Concen: 29.953 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087443.D
Acq: 30 Jul 2025 14:27

Tgt Ion: 98 Resp: 331290
Ion Ratio Lower Upper
98 100
100 63.9 50.7 76.1

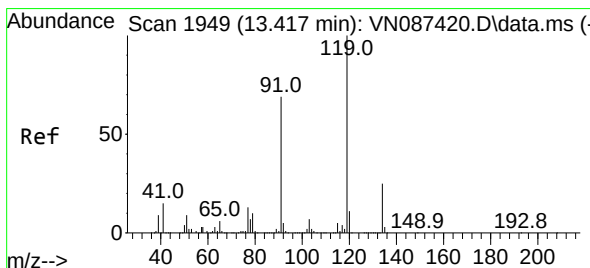
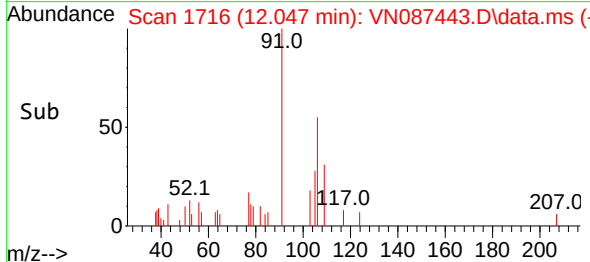
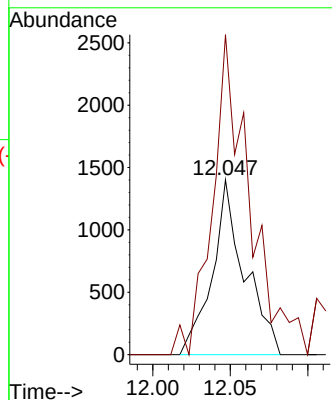
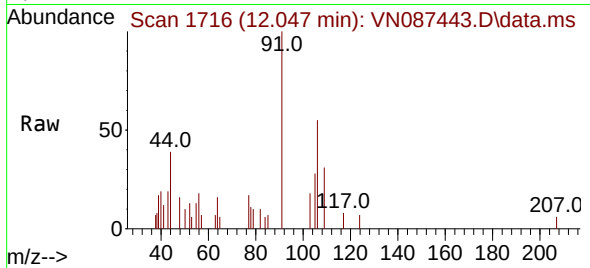




#67
m/p-Xylenes
Concen: 0.366 ug/l
RT: 12.047 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087443.D
Acq: 30 Jul 2025 14:27

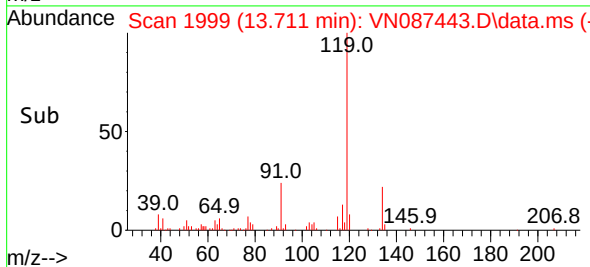
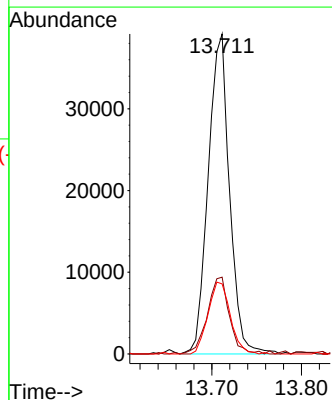
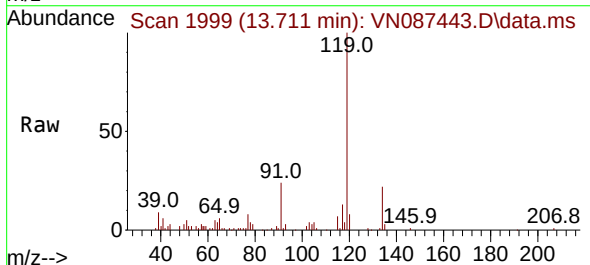
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

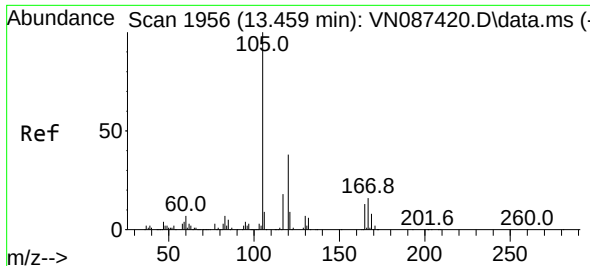
Tgt Ion:106 Resp: 2037
Ion Ratio Lower Upper
106 100
91 191.3 165.4 248.2



#79
tert-butylbenzene
Concen: 6.455 ug/l
RT: 13.711 min Scan# 1999
Delta R.T. 0.294 min
Lab File: VN087443.D
Acq: 30 Jul 2025 14:27

Tgt Ion:119 Resp: 64602
Ion Ratio Lower Upper
119 100
91 24.4 0.0 135.4
134 23.4 0.0 49.2

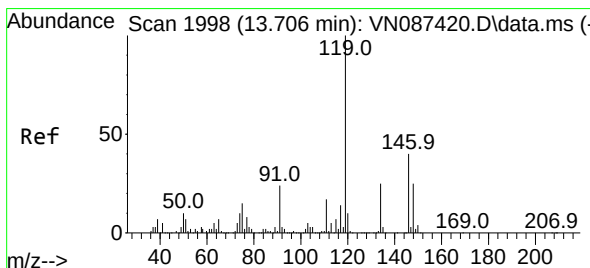
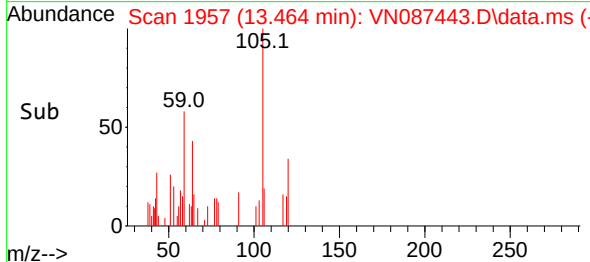
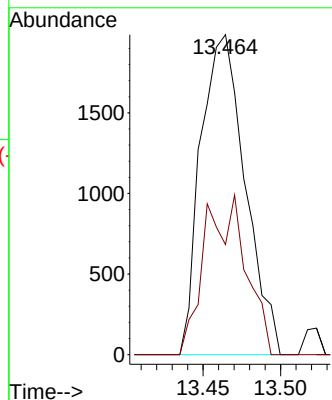
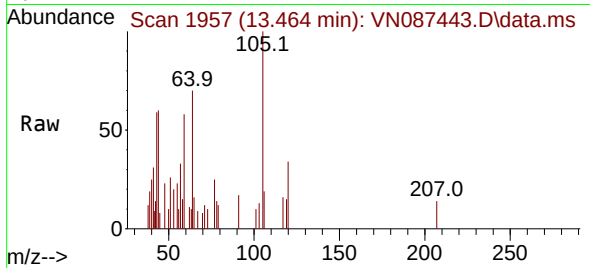




#80
 1,2,4-Trimethylbenzene
 Concen: 0.344 ug/l
 RT: 13.464 min Scan# 1956
 Delta R.T. 0.006 min
 Lab File: VN087443.D
 Acq: 30 Jul 2025 14:27

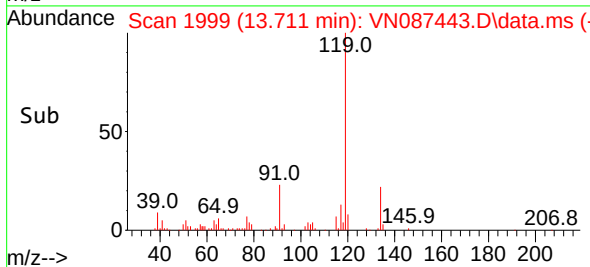
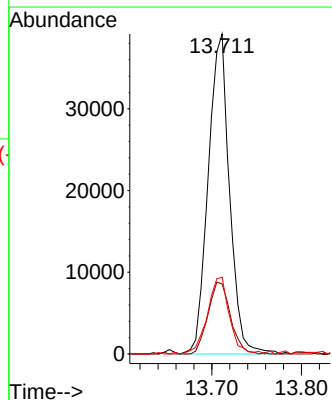
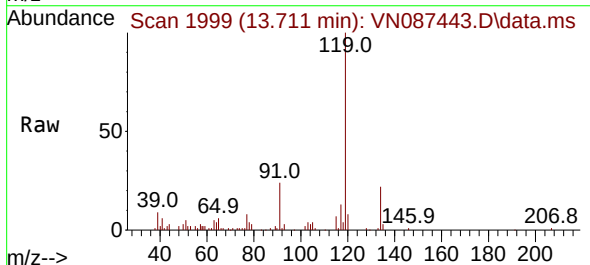
Instrument :
 MSVOA_N
 ClientSampleId :
 001 willets Pt Blvd(july)

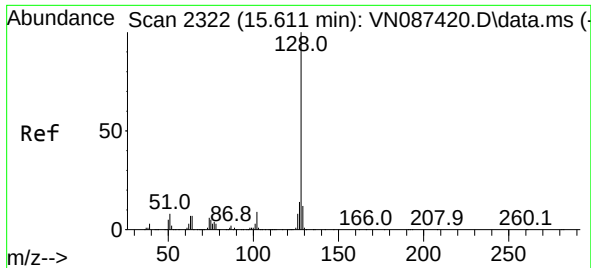
Tgt Ion:105 Resp: 3956
 Ion Ratio Lower Upper
 105 100
 120 20.1 0.0 88.6



#82
 p-Isopropyltoluene
 Concen: 5.354 ug/l
 RT: 13.711 min Scan# 1999
 Delta R.T. 0.006 min
 Lab File: VN087443.D
 Acq: 30 Jul 2025 14:27

Tgt Ion:119 Resp: 64602
 Ion Ratio Lower Upper
 119 100
 134 23.6 0.0 50.8
 91 24.4 0.0 47.6





#91

Naphthalene

Concen: 0.236 ug/l

RT: 15.617 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN087443.D

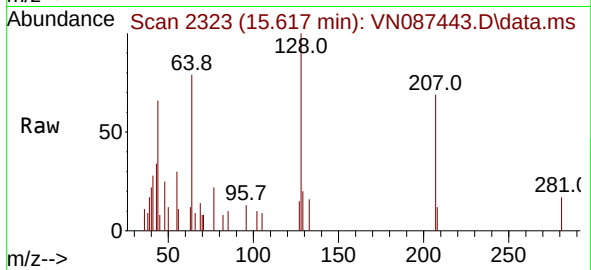
Acq: 30 Jul 2025 14:27

Instrument :

MSVOA_N

ClientSampleId :

001 willets Pt Blvd(july)



Tgt Ion:	128	Resp:	3249
Ion	Ratio	Lower	Upper
128	100		
127	11.1	10.7	16.1
129	9.5	9.1	13.7

