

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090925\
 Data File : VN087770.D
 Acq On : 09 Sep 2025 12:23
 Operator : JC\MD
 Sample : Q3041-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 001 Willets Pt Blvd (Sep)

Quant Time: Sep 10 02:30:40 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)

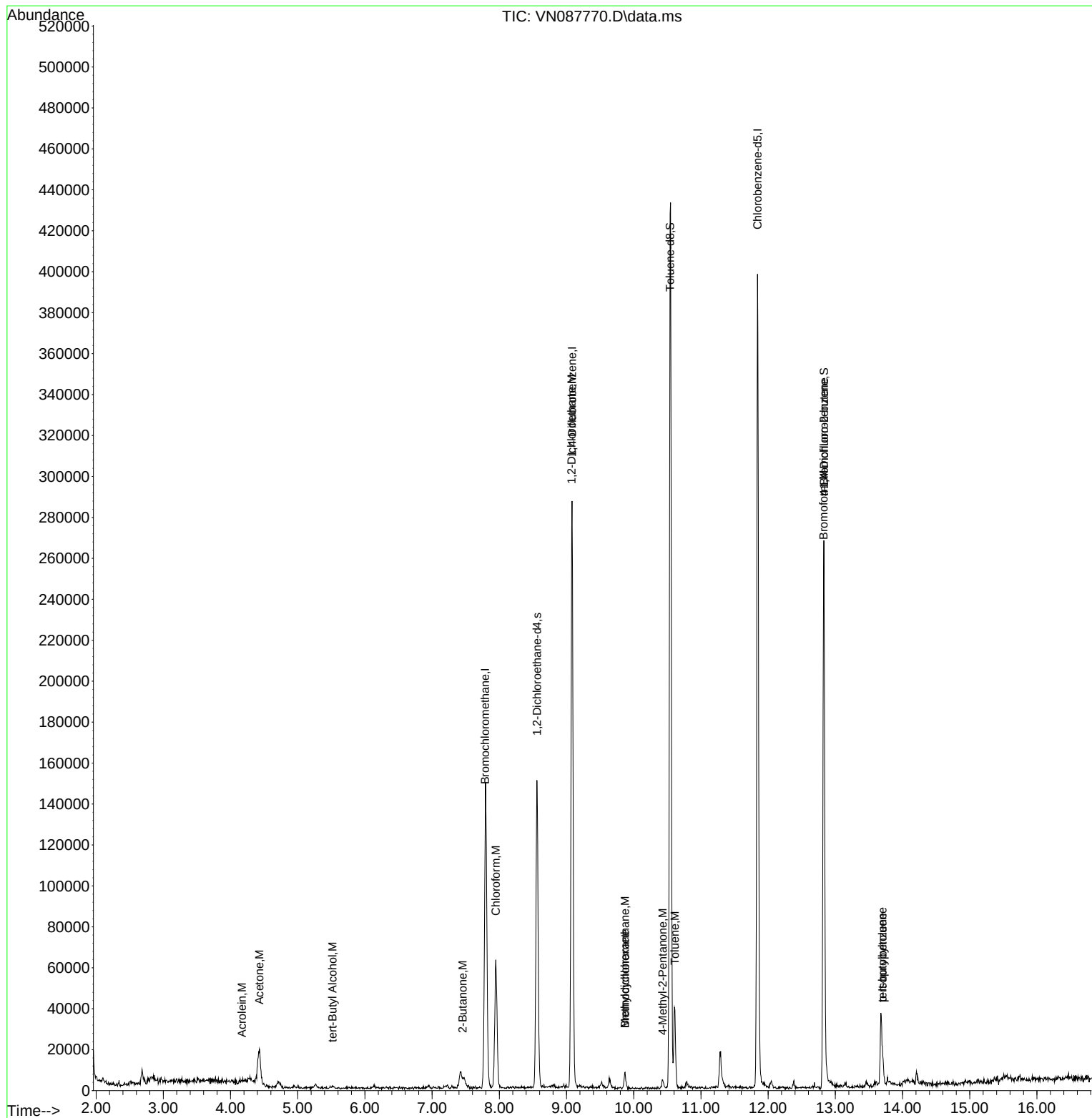
Internal Standards						
1) Bromochloromethane	7.789	128	45351	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	240068	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	211456	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	119732	30.906	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.033%
60) 4-Bromofluorobenzene	12.829	95	89571	26.344	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	87.800%
63) Toluene-d8	10.541	98	293506	29.846	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.500%
Target Compounds						
					Qvalue	
13) Acrolein	4.171	56	286	0.381	ug/l #	1
15) Acetone	4.430	58	9484	16.736	ug/l	81
23) tert-Butyl Alcohol	5.518	59	514	0.800	ug/l #	100
25) Chloroform	7.947	83	57421	9.741	ug/l	89
30) 2-Butanone	7.453	43	1233	0.459	ug/l #	1
36) 1,2-Dichloroethane	9.077	62	10572	2.220	ug/l #	75
38) Methylcyclohexane	9.871	83	3821	0.889	ug/l #	19
41) Bromodichloromethane	9.871	83	5351	1.089	ug/l #	87
56) Bromoform	12.823	173	797	0.351	ug/l #	1
58) 4-Methyl-2-Pentanone	10.430	43	3658	0.732	ug/l #	68
62) Toluene	10.612	91	29427	2.301	ug/l	97
77) t-1,4-Dichloro-2-butene	12.829	75	53982	35.981	ug/l #	14
79) tert-butylbenzene	13.700	119	6850	0.769	ug/l	57
82) p-Isopropyltoluene	13.700	119	6850	0.635	ug/l	95

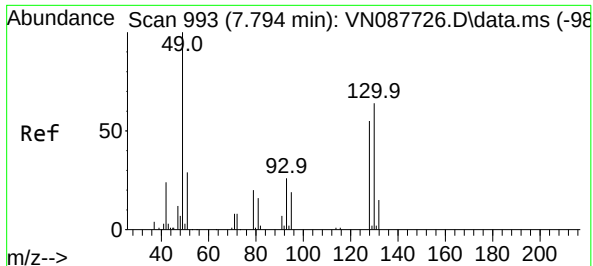
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090925\
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Quant Time: Sep 10 02:30:40 2025
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

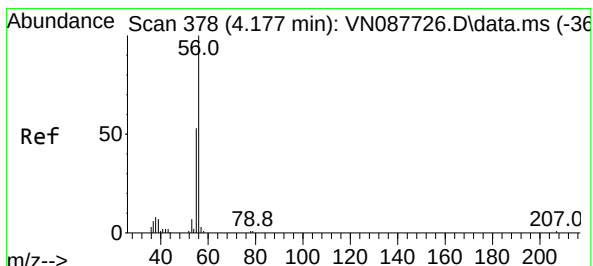
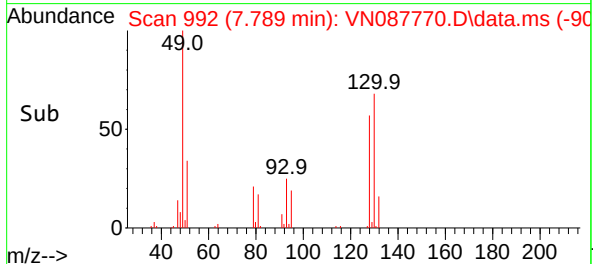
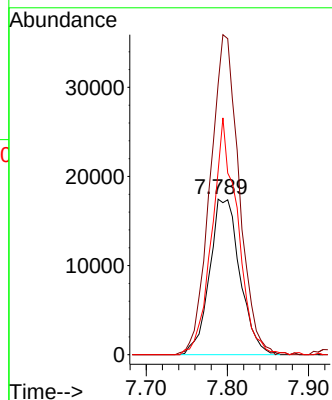
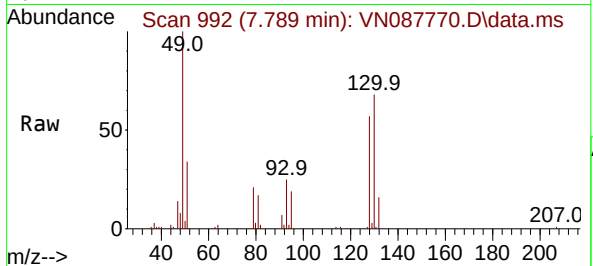




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.789 min Scan# 993
Delta R.T. -0.005 min
Lab File: VN087770.D
Acq: 09 Sep 2025 12:23

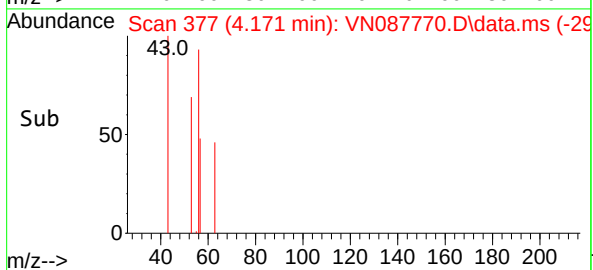
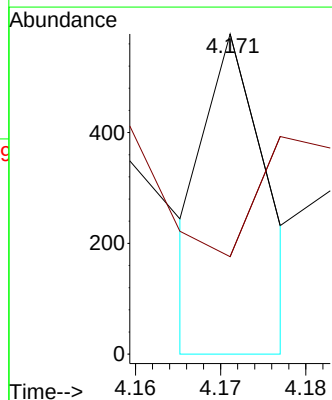
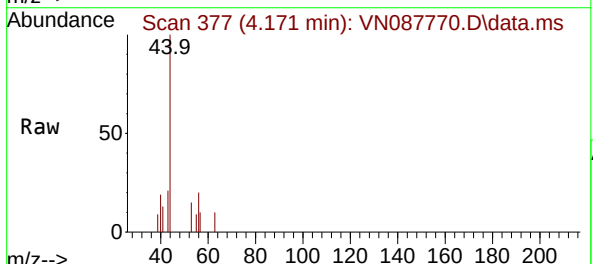
Instrument :
MSVOA_N
ClientSampleId :
001 Willets Pt Blvd (Sep)

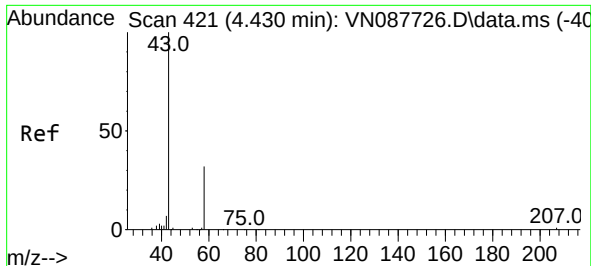
Tgt Ion:128 Resp: 45351
Ion Ratio Lower Upper
128 100
49 196.0 0.0 464.3
130 128.5 0.0 300.5



#13
Acrolein
Concen: 0.381 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.006 min
Lab File: VN087770.D
Acq: 09 Sep 2025 12:23

Tgt Ion: 56 Resp: 286
Ion Ratio Lower Upper
56 100
55 146.9 28.6 42.8#





#15

Acetone

Concen: 16.736 ug/l

RT: 4.430 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN087770.D

Acq: 09 Sep 2025 12:23

Instrument :

MSVOA_N

ClientSampleId :

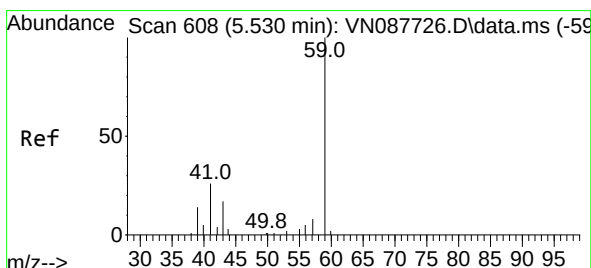
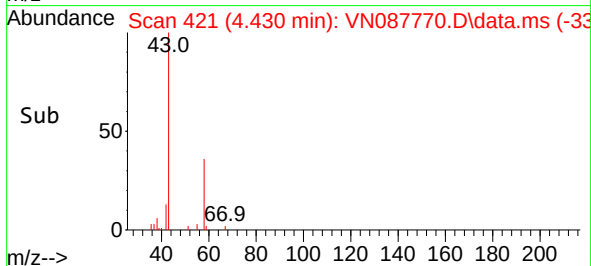
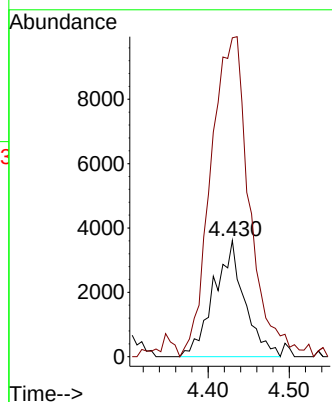
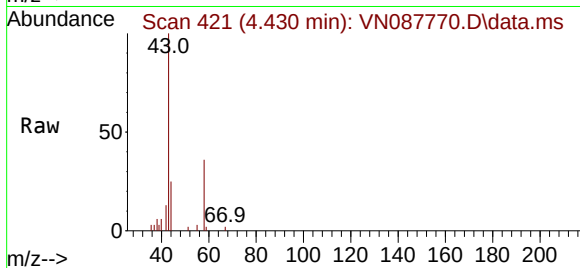
001 Willets Pt Blvd (Sep)

Tgt Ion: 58 Resp: 9484

Ion Ratio Lower Upper

58 100

43 274.4 250.6 376.0



#23

tert-Butyl Alcohol

Concen: 0.800 ug/l

RT: 5.518 min Scan# 606

Delta R.T. -0.012 min

Lab File: VN087770.D

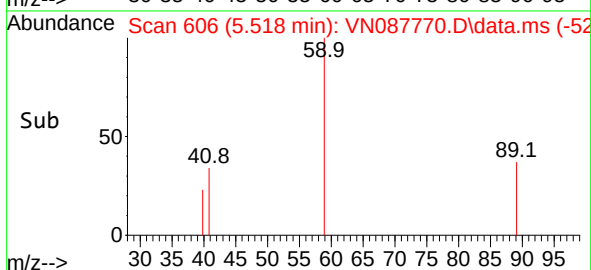
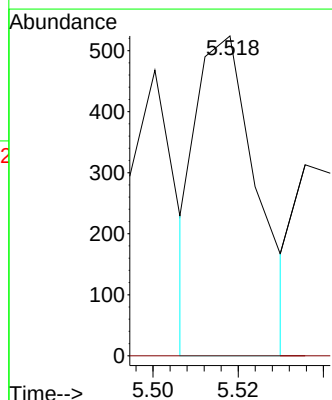
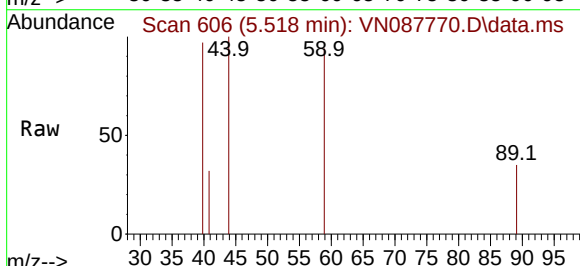
Acq: 09 Sep 2025 12:23

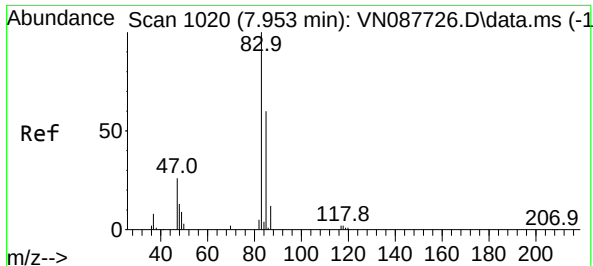
Tgt Ion: 59 Resp: 514

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

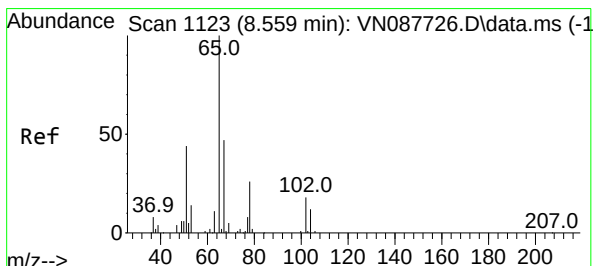
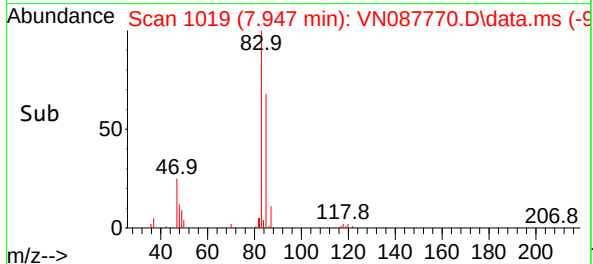
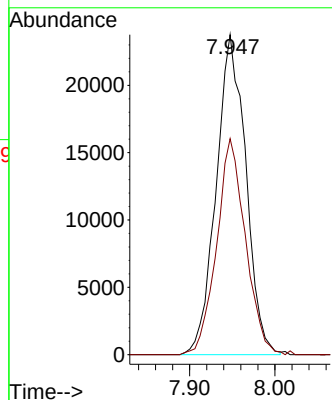
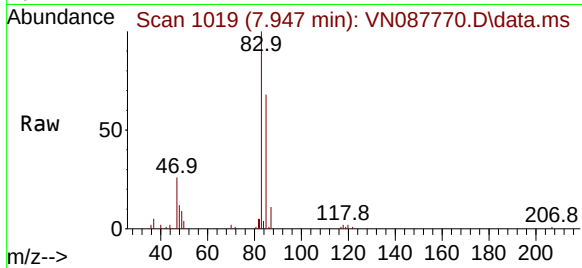




#25
Chloroform
Concen: 9.741 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. -0.006 min
Lab File: VN087770.D
Acq: 09 Sep 2025 12:23

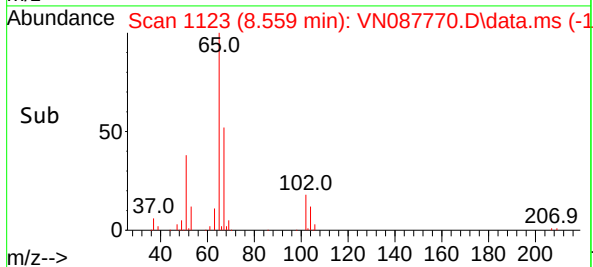
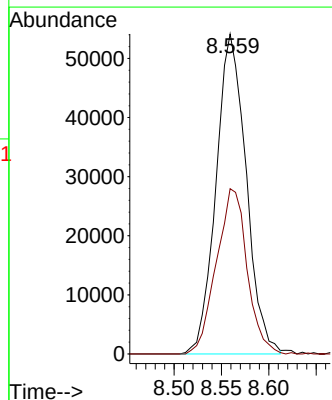
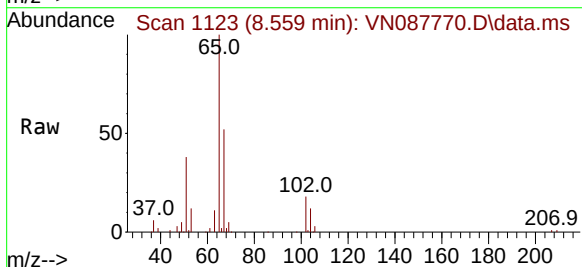
Instrument :
MSVOA_N
ClientSampleId :
001 Willets Pt Blvd (Sep)

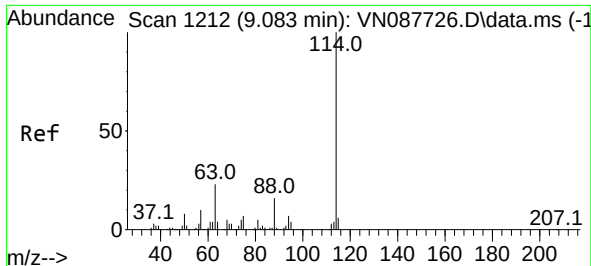
Tgt Ion: 83 Resp: 57421
Ion Ratio Lower Upper
83 100
85 67.5 47.7 71.5



#27
1,2-Dichloroethane-d4
Concen: 30.906 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087770.D
Acq: 09 Sep 2025 12:23

Tgt Ion: 65 Resp: 119732
Ion Ratio Lower Upper
65 100
67 52.6 39.6 59.4





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087770.D

Acq: 09 Sep 2025 12:23

Instrument :

MSVOA_N

ClientSampleId :

001 Willets Pt Blvd (Sep)

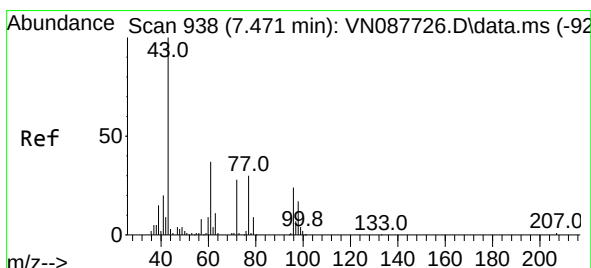
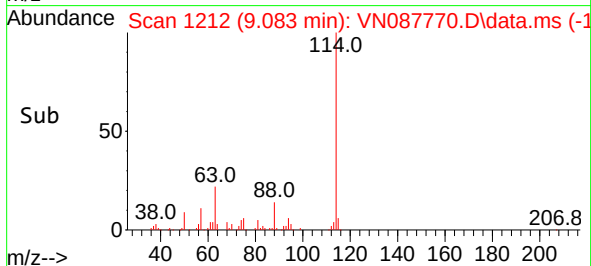
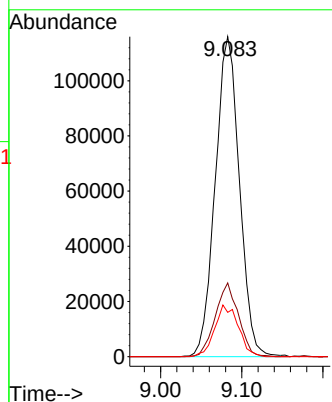
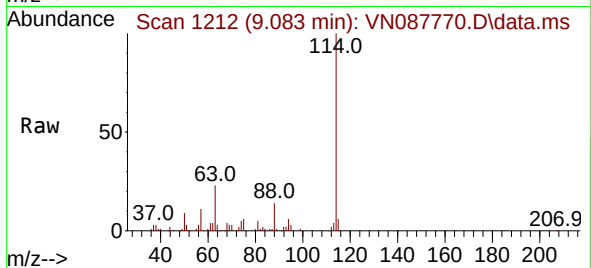
Tgt Ion:114 Resp: 240068

Ion Ratio Lower Upper

114 100

63 22.1 18.3 27.5

88 15.8 12.4 18.6



#30

2-Butanone

Concen: 0.459 ug/l

RT: 7.453 min Scan# 935

Delta R.T. -0.018 min

Lab File: VN087770.D

Acq: 09 Sep 2025 12:23

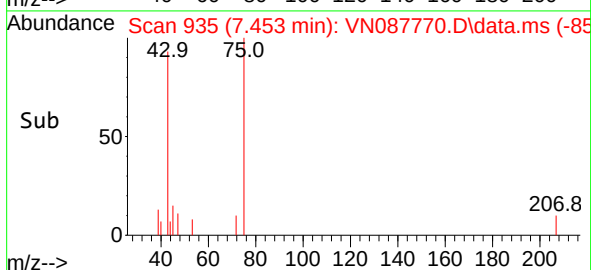
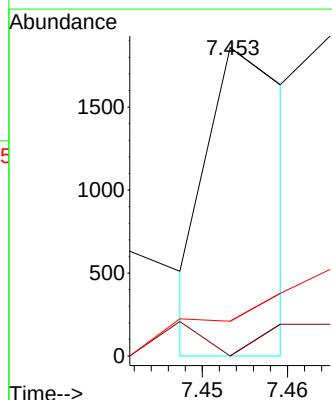
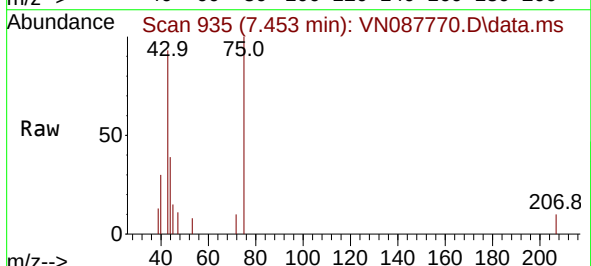
Tgt Ion: 43 Resp: 1233

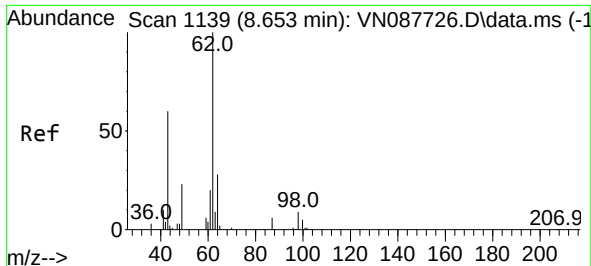
Ion Ratio Lower Upper

43 100

57 10.9 6.3 9.5#

72 108.0 21.4 32.2#





#36

1,2-Dichloroethane

Concen: 2.220 ug/l

RT: 9.077 min Scan# 1139

Delta R.T. 0.423 min

Lab File: VN087770.D

Acq: 09 Sep 2025 12:23

Instrument :

MSVOA_N

ClientSampleId :

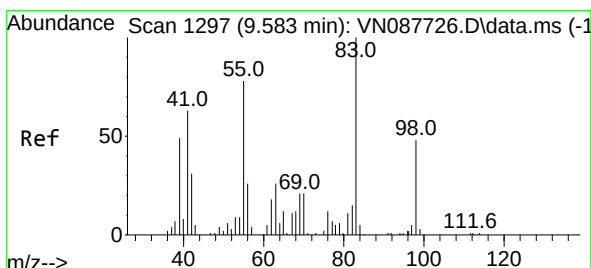
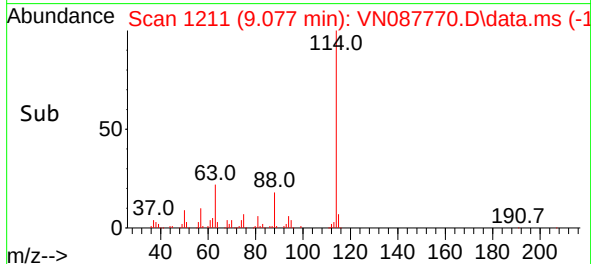
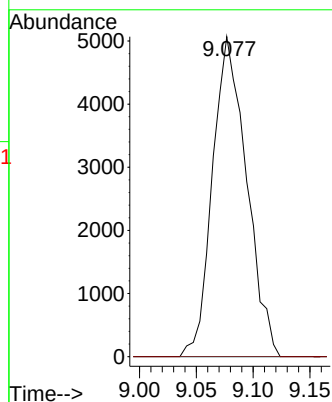
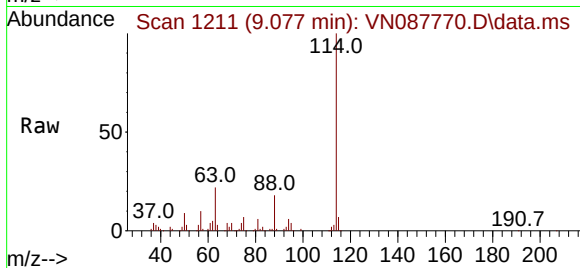
001 Willets Pt Blvd (Sep)

Tgt Ion: 62 Resp: 10572

Ion Ratio Lower Upper

62 100

98 0.0 7.2 10.8#



#38

Methylcyclohexane

Concen: 0.889 ug/l

RT: 9.871 min Scan# 1346

Delta R.T. 0.288 min

Lab File: VN087770.D

Acq: 09 Sep 2025 12:23

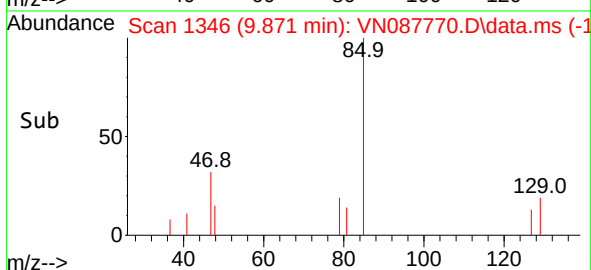
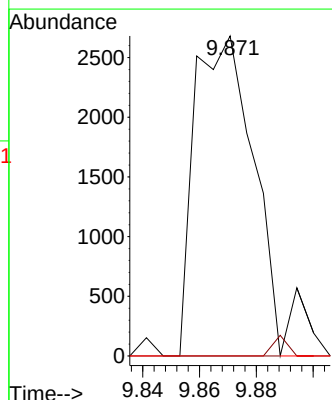
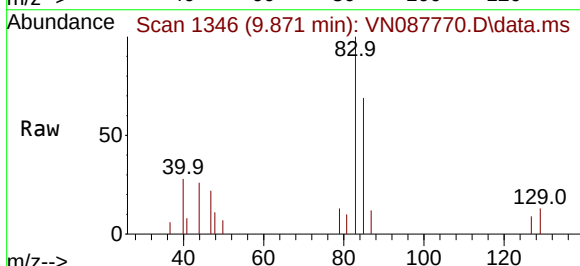
Tgt Ion: 83 Resp: 3821

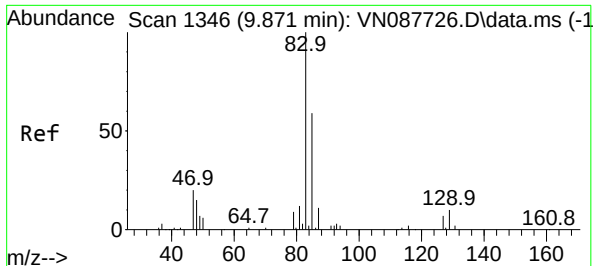
Ion Ratio Lower Upper

83 100

55 4.1 40.4 121.1#

98 0.0 24.0 72.0#

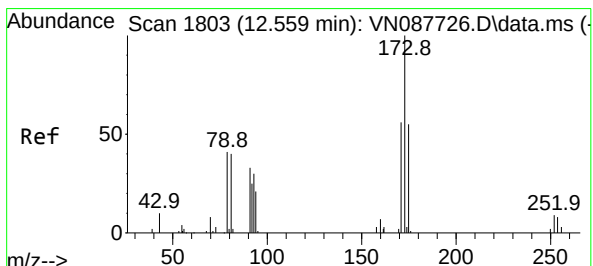
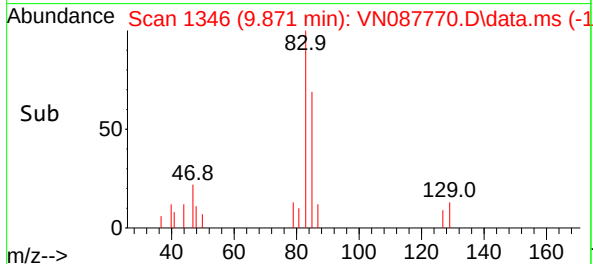
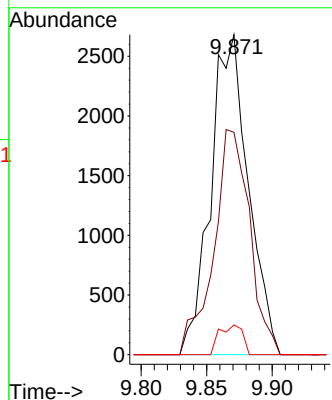
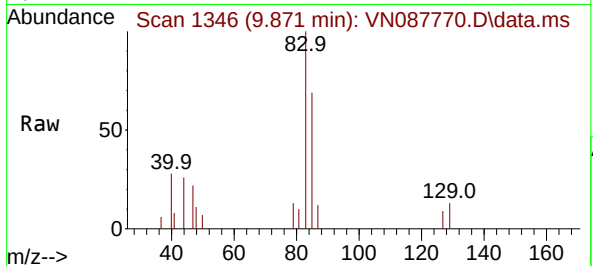




#41
Bromodichloromethane
Concen: 1.089 ug/l
RT: 9.871 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087770.D
Acq: 09 Sep 2025 12:23

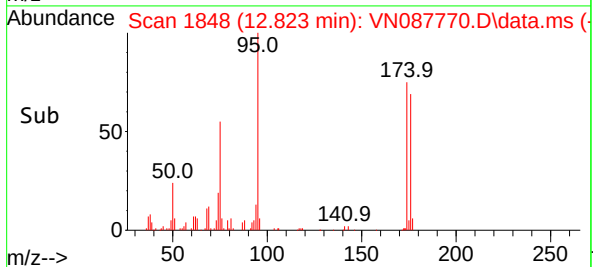
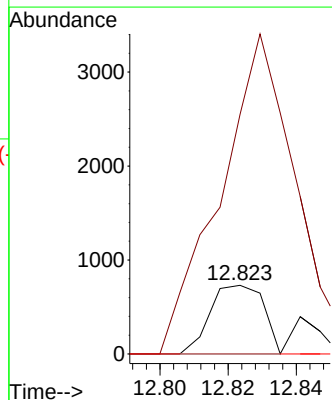
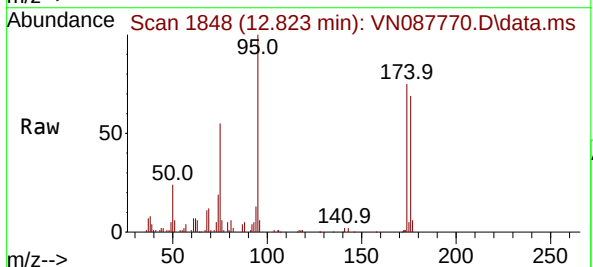
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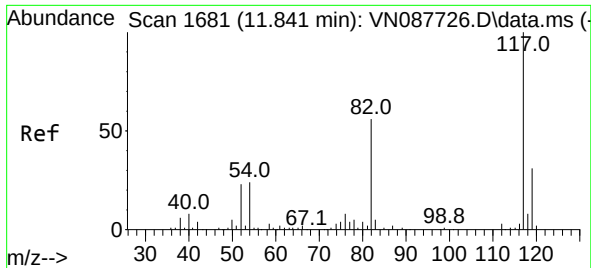
Tgt Ion: 83 Resp: 5351
Ion Ratio Lower Upper
83 100
85 69.5 47.3 70.9
127 9.3 5.2 7.8#



#56
Bromoform
Concen: 0.351 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.265 min
Lab File: VN087770.D
Acq: 09 Sep 2025 12:23

Tgt Ion:173 Resp: 797
Ion Ratio Lower Upper
173 100
175 678.8 39.8 59.6#
254 0.0 6.2 9.4#

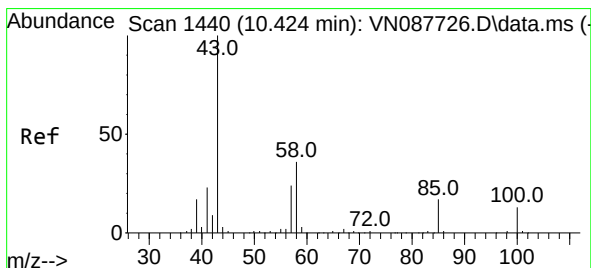
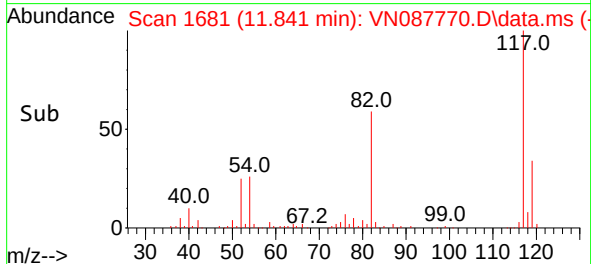
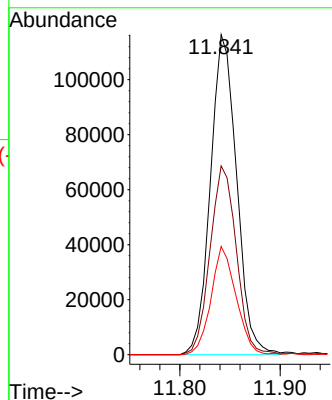
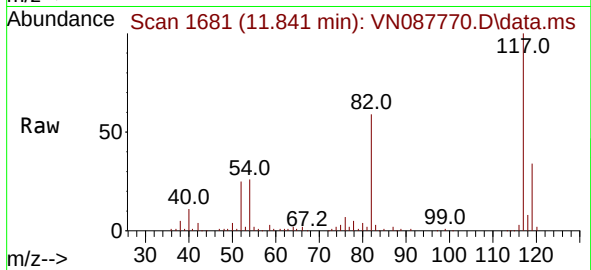




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.841 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087770.D
Acq: 09 Sep 2025 12:23

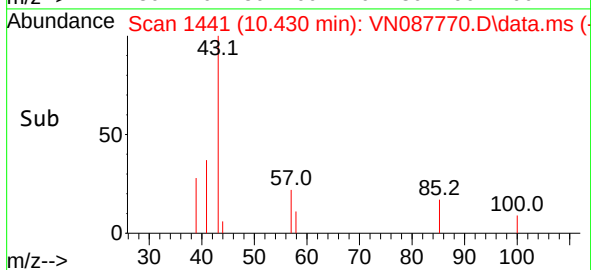
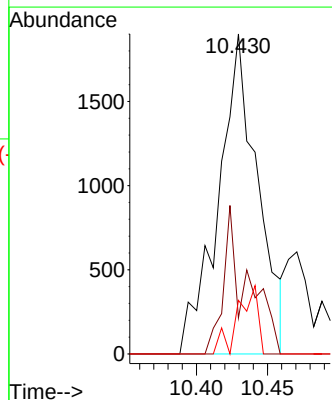
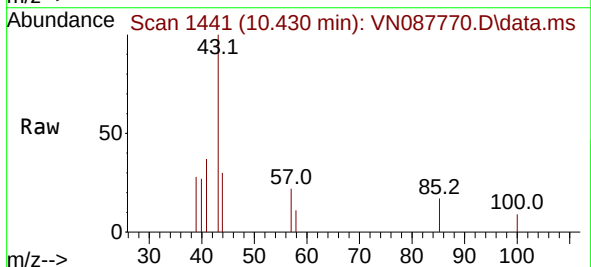
Instrument :
MSVOA_N
ClientSampleId :
001 Willets Pt Blvd (Sep)

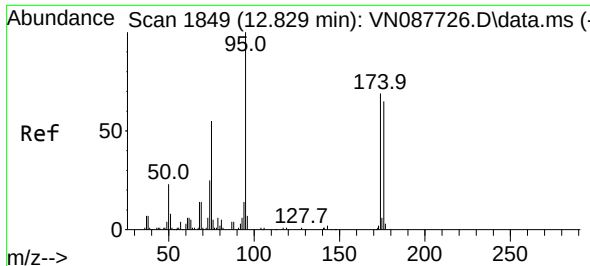
Tgt Ion:117 Resp: 211456
Ion Ratio Lower Upper
117 100
82 59.2 45.9 68.9
119 32.2 25.3 37.9



#58
4-Methyl-2-Pentanone
Concen: 0.732 ug/l
RT: 10.430 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN087770.D
Acq: 09 Sep 2025 12:23

Tgt Ion: 43 Resp: 3658
Ion Ratio Lower Upper
43 100
58 13.9 29.6 44.4#
85 9.4 13.0 19.4#

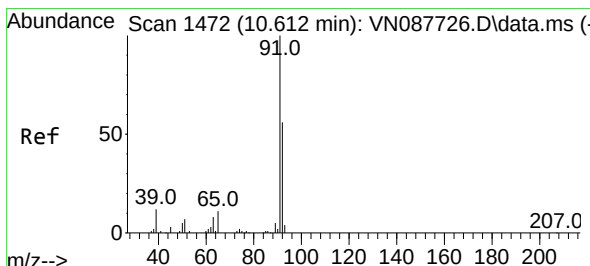
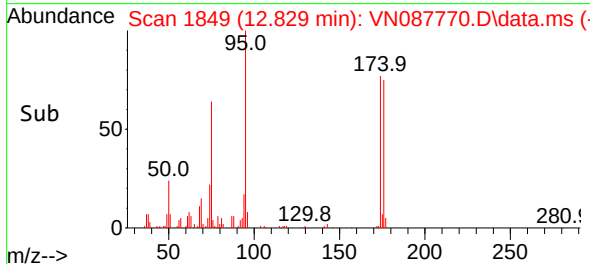
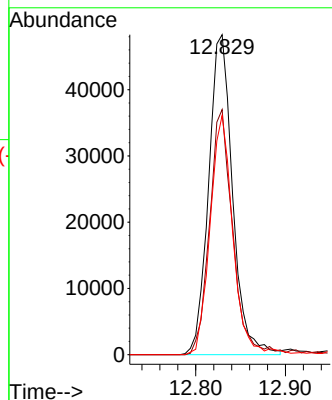
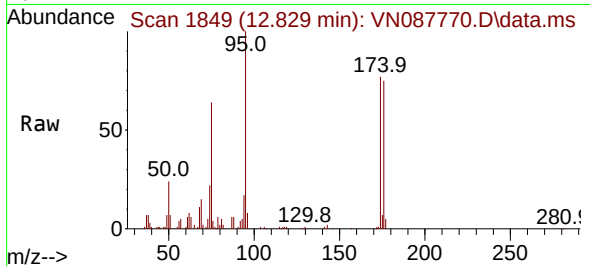




#60
4-Bromofluorobenzene
Concen: 26.344 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087770.D
Acq: 09 Sep 2025 12:23

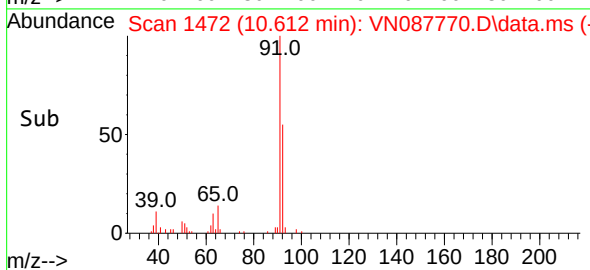
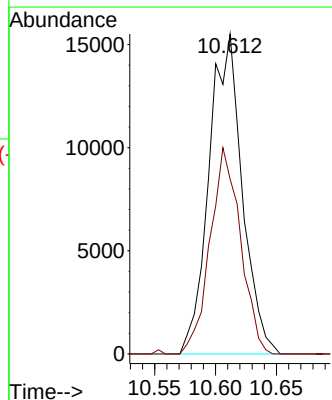
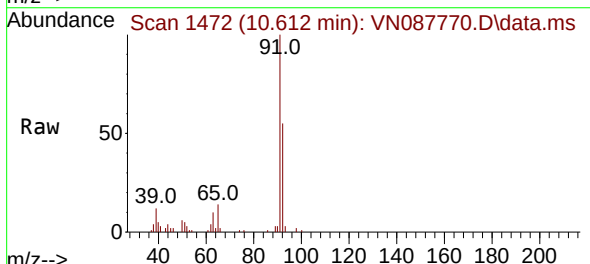
Instrument :
MSVOA_N
ClientSampleId :
001 Willets Pt Blvd (Sep)

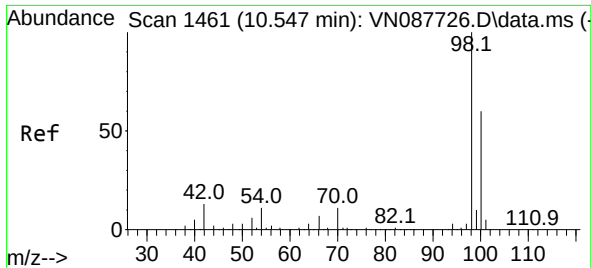
Tgt Ion: 95 Resp: 89571
Ion Ratio Lower Upper
95 100
174 72.7 55.4 83.0
176 69.9 51.5 77.3



#62
Toluene
Concen: 2.301 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VN087770.D
Acq: 09 Sep 2025 12:23

Tgt Ion: 91 Resp: 29427
Ion Ratio Lower Upper
91 100
92 59.1 45.4 68.0

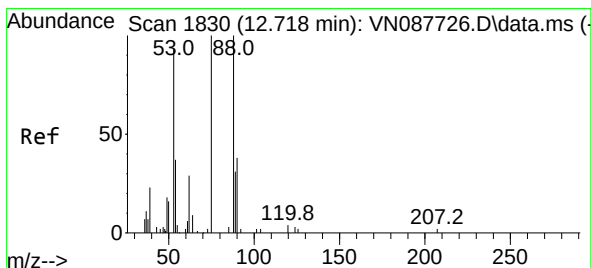
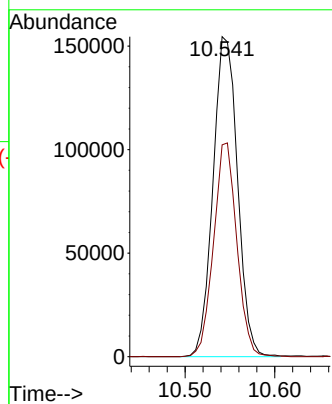
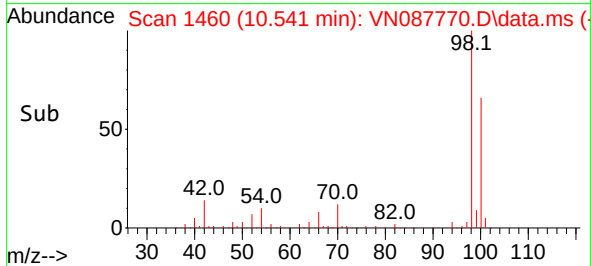
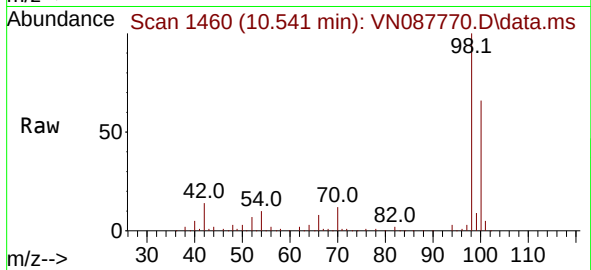




#63
Toluene-d8
Concen: 29.846 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN087770.D
Acq: 09 Sep 2025 12:23

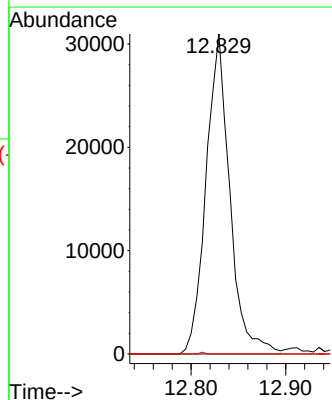
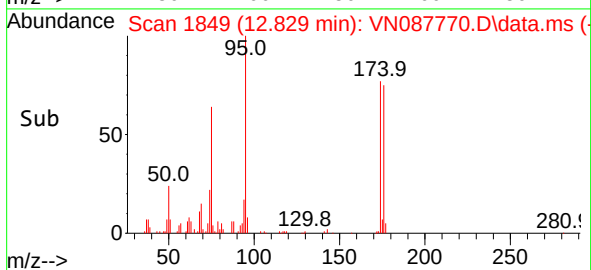
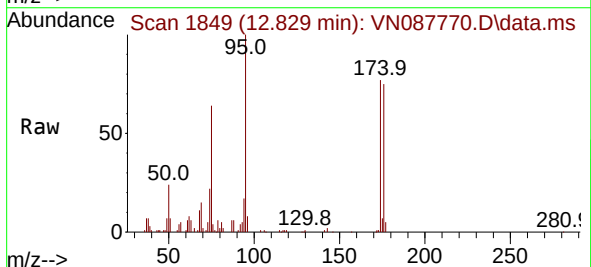
Instrument :
MSVOA_N
ClientSampleId :
001 Willets Pt Blvd (Sep)

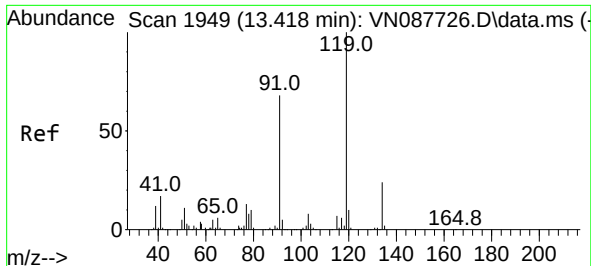
Tgt Ion: 98 Resp: 293506
Ion Ratio Lower Upper
98 100
100 63.4 50.6 76.0



#77
t-1,4-Dichloro-2-butene
Concen: 35.981 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087770.D
Acq: 09 Sep 2025 12:23

Tgt Ion: 75 Resp: 53982
Ion Ratio Lower Upper
75 100
53 0.0 45.3 135.9#
89 0.0 18.8 56.3#

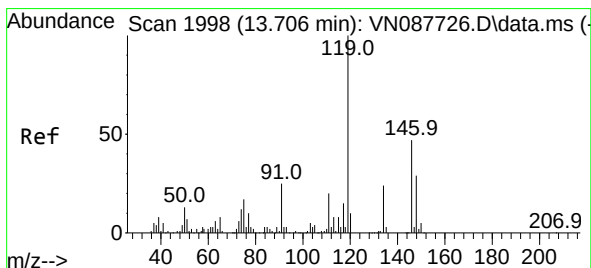
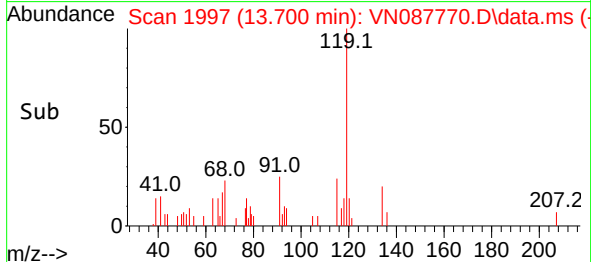
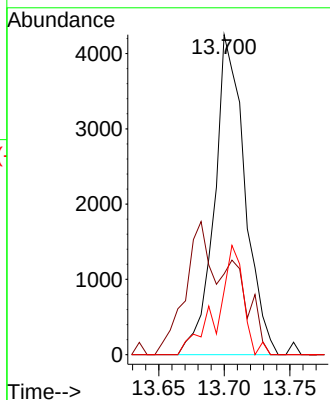
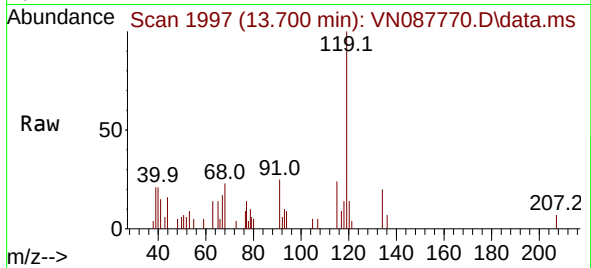




#79
tert-butylbenzene
Concen: 0.769 ug/l
RT: 13.700 min Scan# 1949
Delta R.T. 0.282 min
Lab File: VN087770.D
Acq: 09 Sep 2025 12:23

Instrument :
MSVOA_N
ClientSampleId :
001 Willets Pt Blvd (Sep)

Tgt Ion:	119	Resp:	6850
Ion Ratio	Lower	Upper	
119	100		
91	25.4	0.0	142.6
134	20.3	0.0	47.2



#82
p-Isopropyltoluene
Concen: 0.635 ug/l
RT: 13.700 min Scan# 1997
Delta R.T. -0.006 min
Lab File: VN087770.D
Acq: 09 Sep 2025 12:23

Tgt Ion:	119	Resp:	6850
Ion Ratio	Lower	Upper	
119	100		
134	20.3	0.0	49.4
91	25.4	0.0	52.2

