

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070925\
 Data File : VN087310.D
 Acq On : 09 Jul 2025 13:33
 Operator : JC\MD
 Sample : Q2533-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 001 WILLETS PT BLVD (JUNE)

Quant Time: Jul 10 01:25:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

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

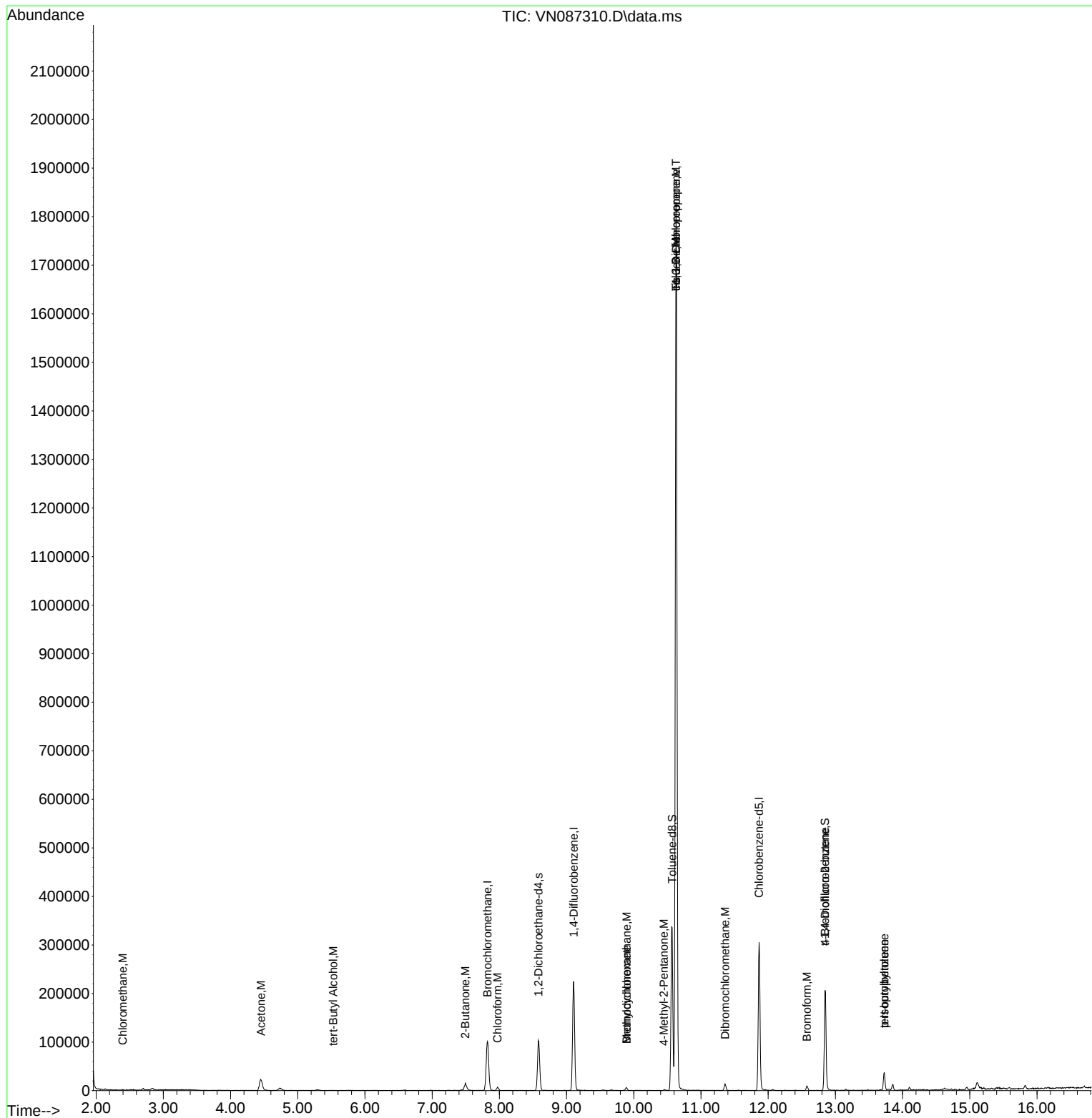
Internal Standards						
1) Bromochloromethane	7.824	128	40947	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	205920	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	191589	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	87790	28.456	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	94.867%
60) 4-Bromofluorobenzene	12.847	95	79889	27.022	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	90.067%
63) Toluene-d8	10.571	98	241101	28.027	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	93.433%
Target Compounds						
					Qvalue	
3) Chloromethane	2.395	50	934	0.371	ug/l	96
15) Acetone	4.453	58	15081	28.488	ug/l	84
23) tert-Butyl Alcohol	5.530	59	257	0.377	ug/l #	100
25) Chloroform	7.971	83	6048	1.217	ug/l	85
30) 2-Butanone	7.494	43	22215	10.261	ug/l #	92
38) Methylcyclohexane	9.894	83	4736	1.286	ug/l #	16
41) Bromodichloromethane	9.894	83	4736	1.352	ug/l #	96
48) t-1,3-Dichloropropene	10.629	75	8688	2.225	ug/l #	1
49) cis-1,3-Dichloropropene	10.629	75	8688	2.093	ug/l #	1
53) Dibromochloromethane	11.359	129	7998	3.091	ug/l	99
56) Bromoform	12.576	173	4837	2.719	ug/l #	93
58) 4-Methyl-2-Pentanone	10.447	43	823	0.214	ug/l #	69
62) Toluene	10.629	91	1400951	129.470	ug/l	99
77) t-1,4-Dichloro-2-butene	12.847	75	40610	27.351	ug/l #	13
79) tert-butylbenzene	13.729	119	20571	2.788	ug/l	64
82) p-Isopropyltoluene	13.729	119	20571	2.304	ug/l	92

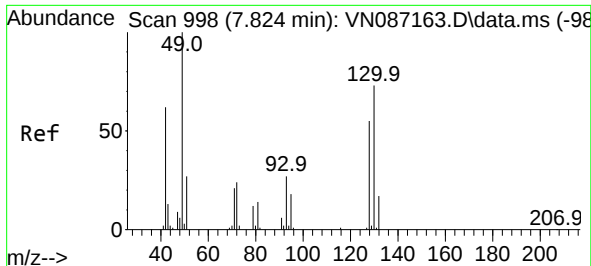
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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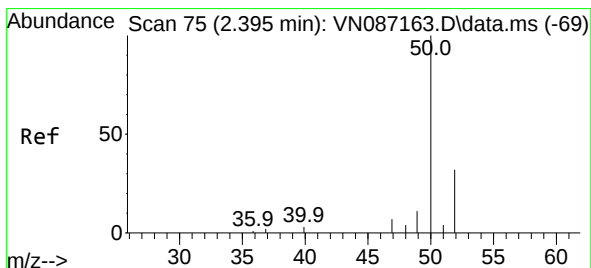
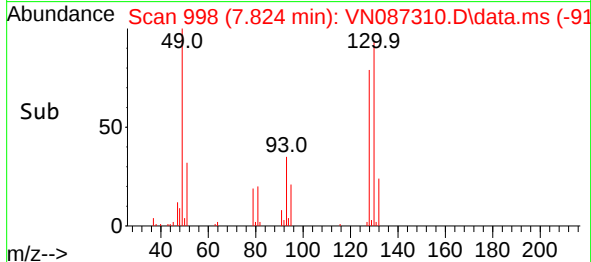
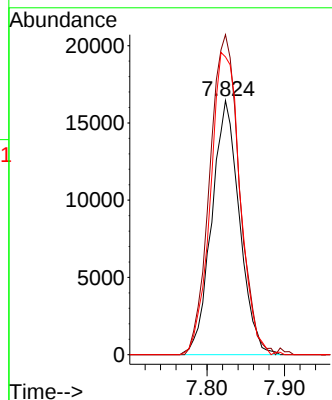
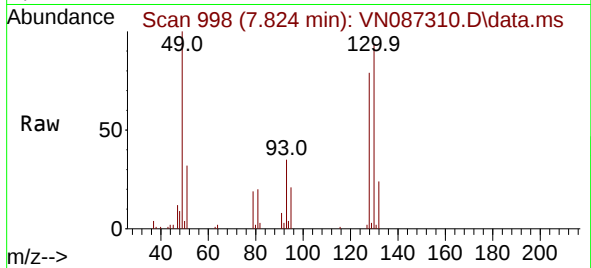




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087310.D
Acq: 09 Jul 2025 13:33

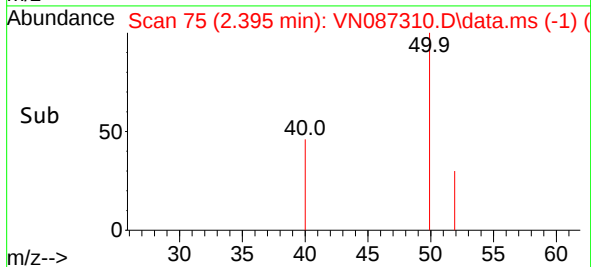
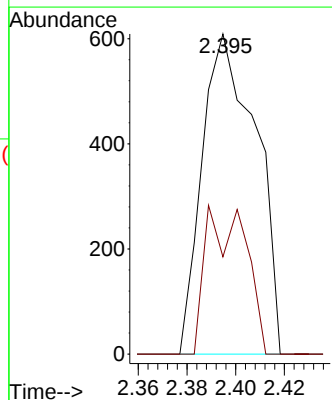
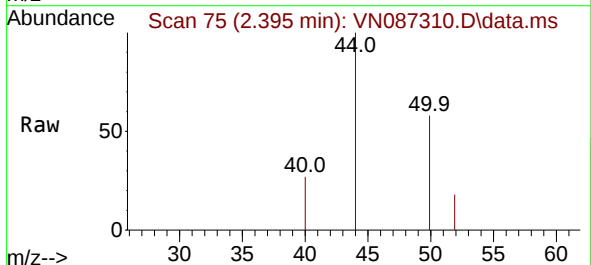
Instrument :
MSVOA_N
ClientSampleId :
001 WILLETS PT BLVD (JUNE)

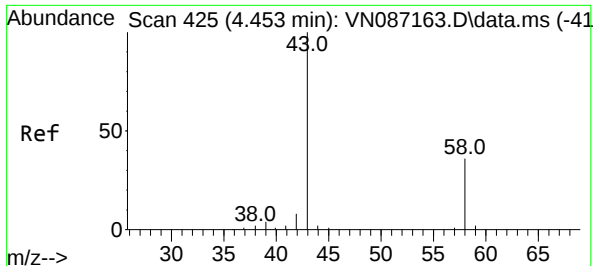
Tgt Ion:128 Resp: 40947
Ion Ratio Lower Upper
128 100
49 134.4 0.0 450.5
130 126.6 0.0 320.7



#3
Chloromethane
Concen: 0.371 ug/l
RT: 2.395 min Scan# 75
Delta R.T. 0.000 min
Lab File: VN087310.D
Acq: 09 Jul 2025 13:33

Tgt Ion: 50 Resp: 934
Ion Ratio Lower Upper
50 100
52 30.4 25.9 38.9





#15

Acetone

Concen: 28.488 ug/l

RT: 4.453 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN087310.D

Acq: 09 Jul 2025 13:33

Instrument :

MSVOA_N

ClientSampleId :

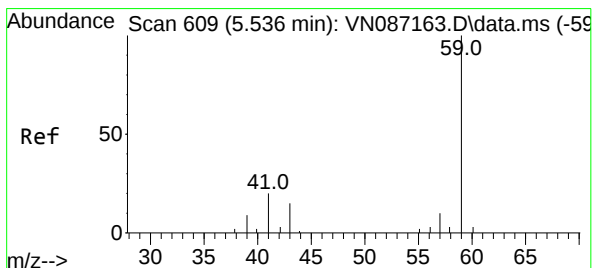
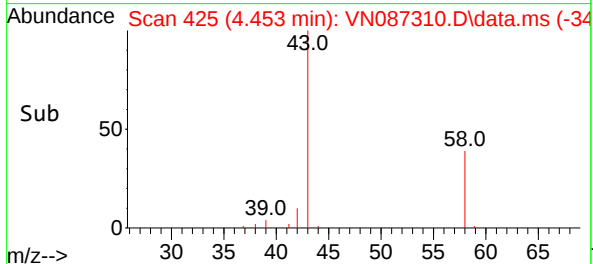
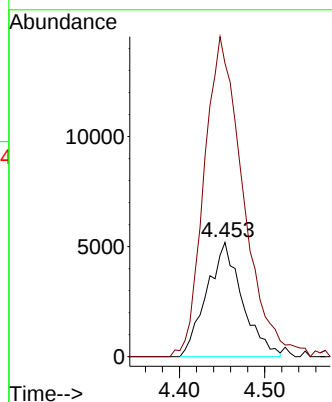
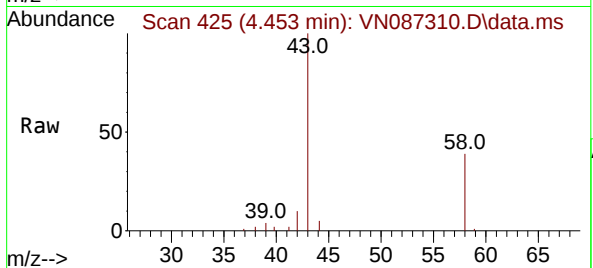
001 WILLETS PT BLVD (JUNE)

Tgt Ion: 58 Resp: 15081

Ion Ratio Lower Upper

58 100

43 251.2 224.3 336.5



#23

tert-Butyl Alcohol

Concen: 0.377 ug/l

RT: 5.530 min Scan# 608

Delta R.T. -0.006 min

Lab File: VN087310.D

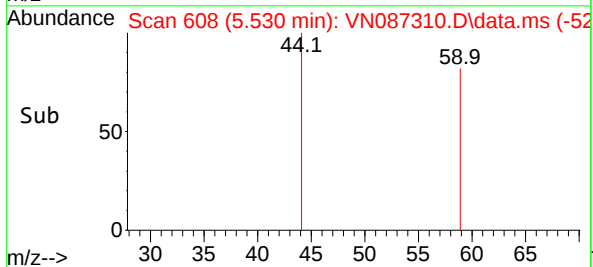
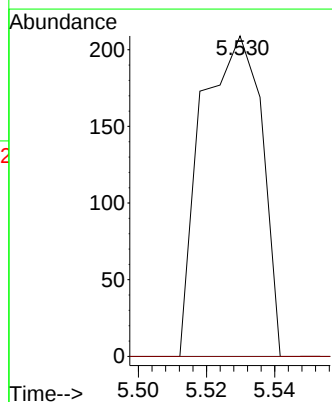
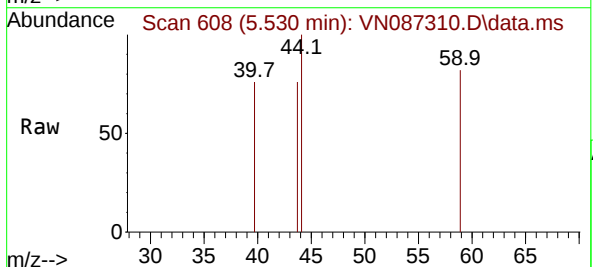
Acq: 09 Jul 2025 13:33

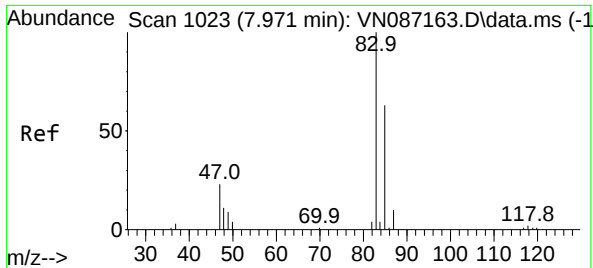
Tgt Ion: 59 Resp: 257

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

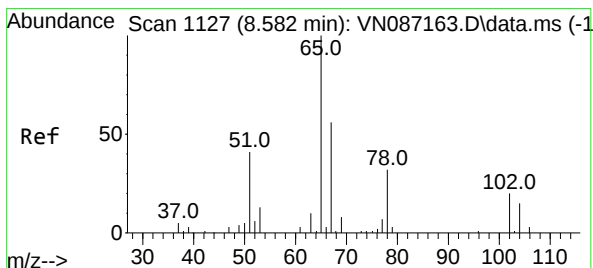
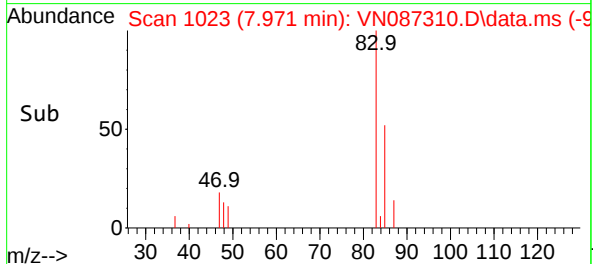
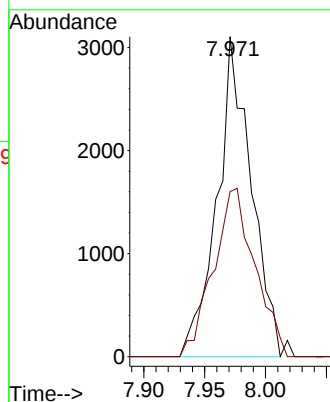
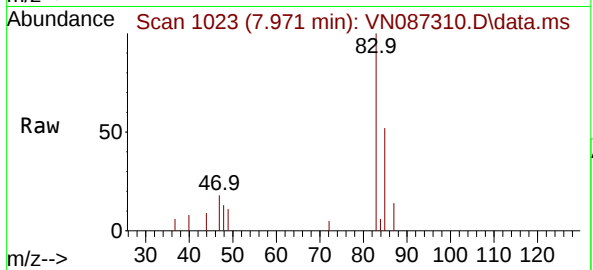




#25
Chloroform
Concen: 1.217 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.000 min
Lab File: VN087310.D
Acq: 09 Jul 2025 13:33

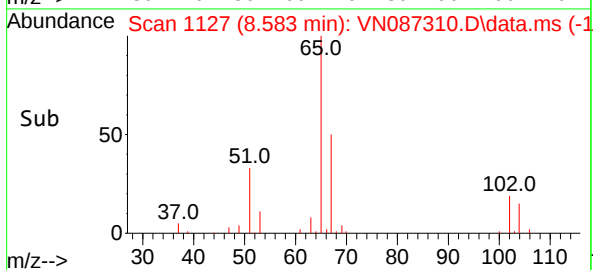
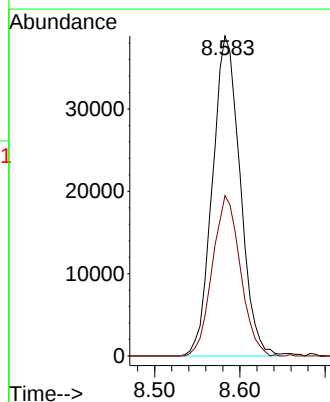
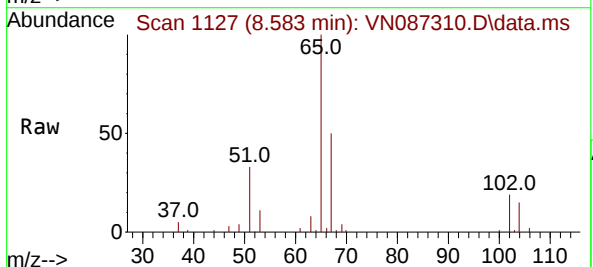
Instrument :
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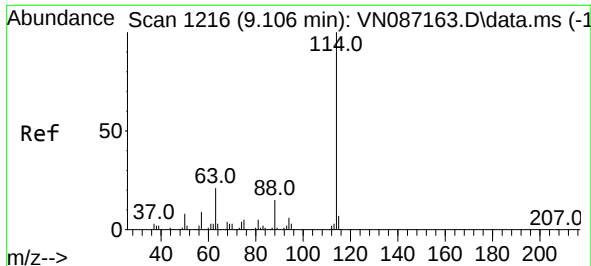
Tgt Ion: 83 Resp: 6048
Ion Ratio Lower Upper
83 100
85 51.6 50.7 76.1



#27
1,2-Dichloroethane-d4
Concen: 28.456 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN087310.D
Acq: 09 Jul 2025 13:33

Tgt Ion: 65 Resp: 87790
Ion Ratio Lower Upper
65 100
67 50.6 41.9 62.9

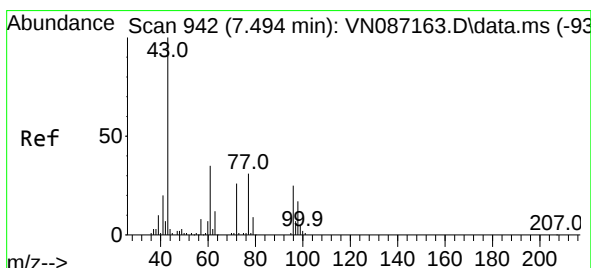
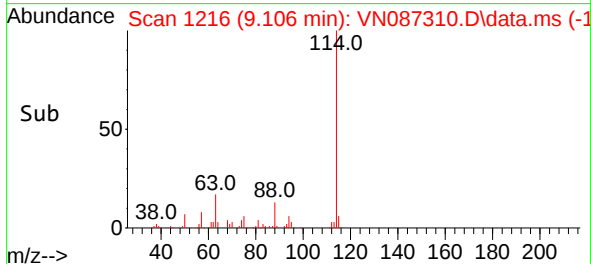
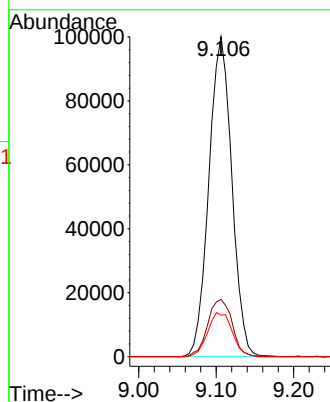
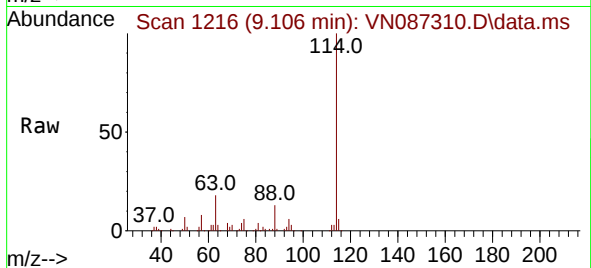




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 114
Delta R.T. 0.000 min
Lab File: VN087310.D
Acq: 09 Jul 2025 13:33

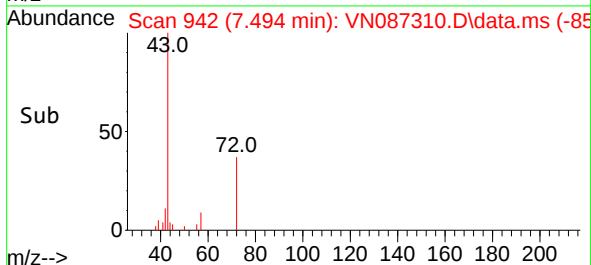
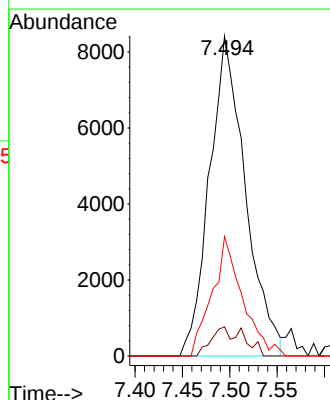
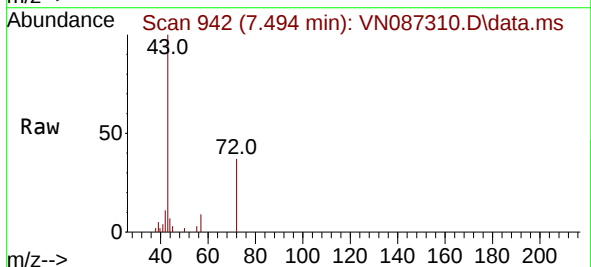
Instrument :
MSVOA_N
ClientSampleId :
001 WILLETS PT BLVD (JUNE)

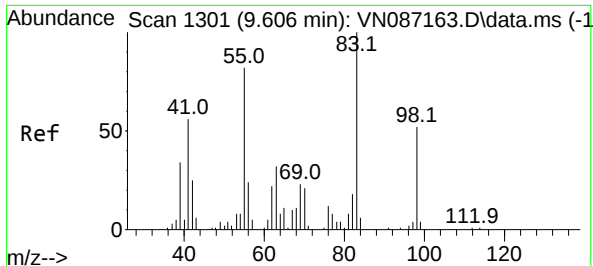
Tgt Ion: 114 Resp: 205920
Ion Ratio Lower Upper
114 100
63 19.0 17.0 25.4
88 14.8 12.6 19.0



#30
2-Butanone
Concen: 10.261 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.000 min
Lab File: VN087310.D
Acq: 09 Jul 2025 13:33

Tgt Ion: 43 Resp: 22215
Ion Ratio Lower Upper
43 100
57 4.7 6.3 9.5#
72 30.9 21.8 32.6

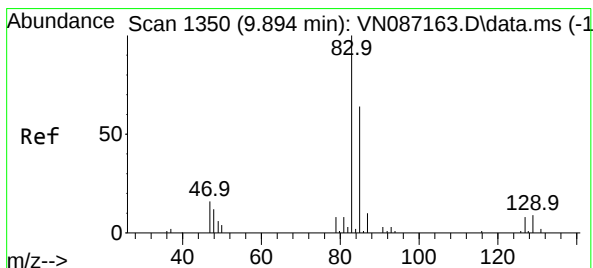
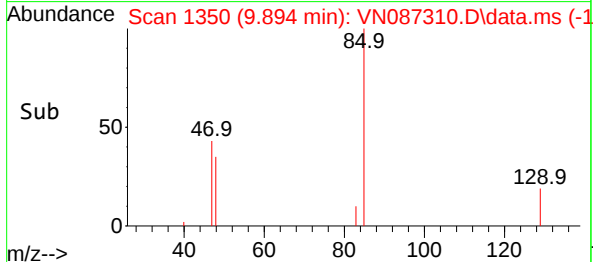
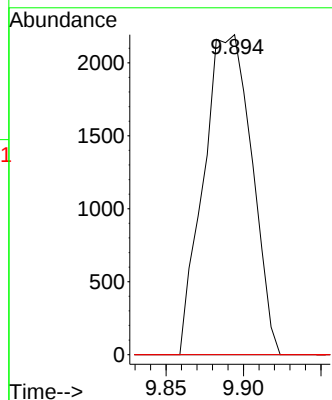
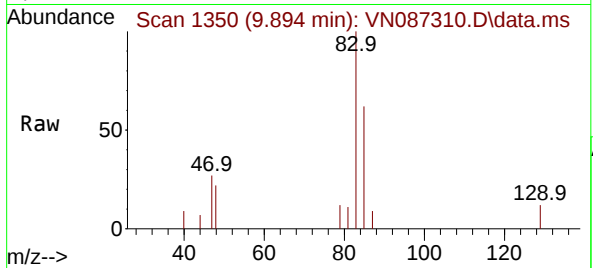




#38
Methylcyclohexane
Concen: 1.286 ug/l
RT: 9.894 min Scan# 1350
Delta R.T. 0.288 min
Lab File: VN087310.D
Acq: 09 Jul 2025 13:33

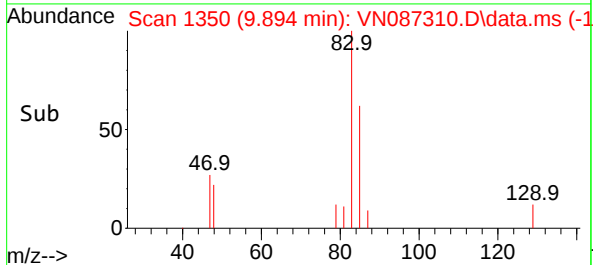
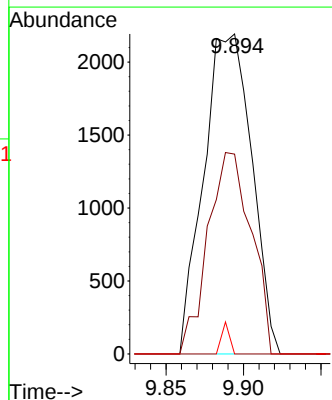
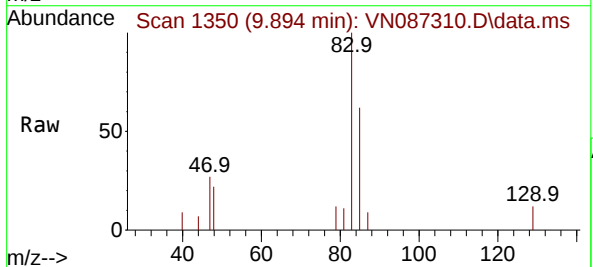
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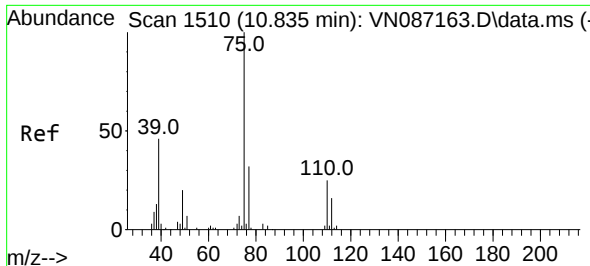
Tgt Ion: 83 Resp: 4736
Ion Ratio Lower Upper
83 100
55 0.0 40.1 120.2#
98 0.0 24.4 73.2#



#41
Bromodichloromethane
Concen: 1.352 ug/l
RT: 9.894 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VN087310.D
Acq: 09 Jul 2025 13:33

Tgt Ion: 83 Resp: 4736
Ion Ratio Lower Upper
83 100
85 62.4 51.4 77.2
127 0.0 6.1 9.1#

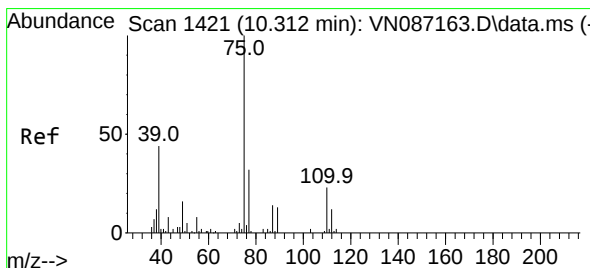
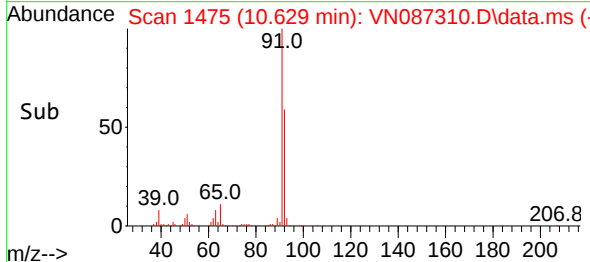
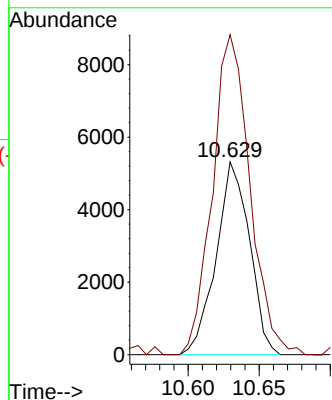
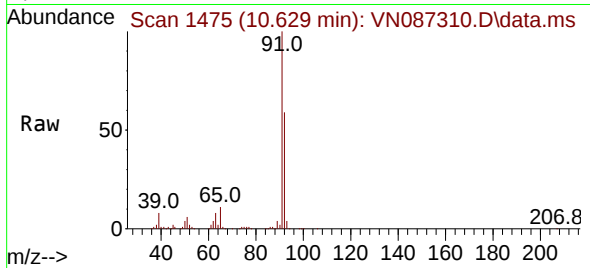




#48
t-1,3-Dichloropropene
Concen: 2.225 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.206 min
Lab File: VN087310.D
Acq: 09 Jul 2025 13:33

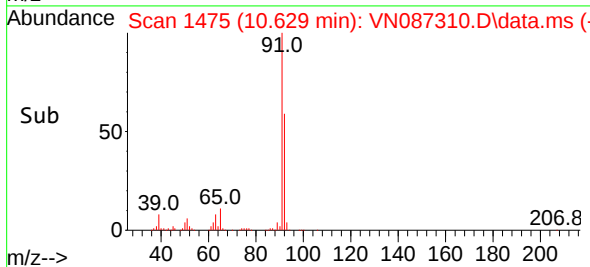
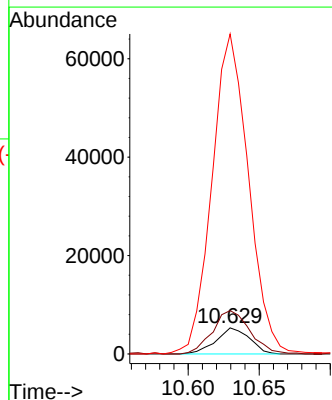
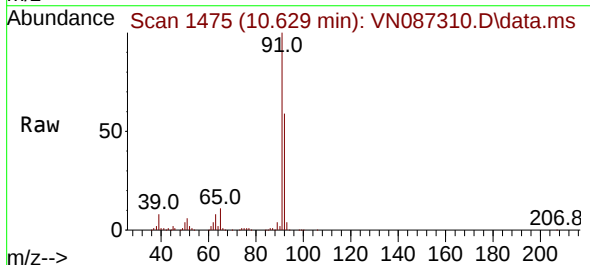
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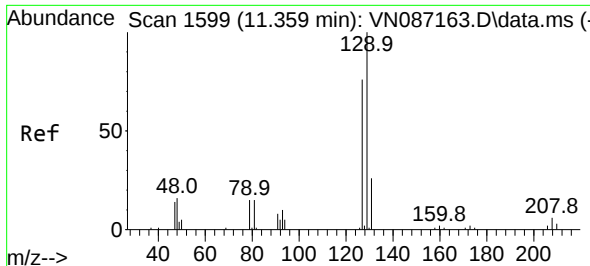
Tgt Ion: 75 Resp: 8688
Ion Ratio Lower Upper
75 100
77 166.0 25.4 38.0#



#49
cis-1,3-Dichloropropene
Concen: 2.093 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.318 min
Lab File: VN087310.D
Acq: 09 Jul 2025 13:33

Tgt Ion: 75 Resp: 8688
Ion Ratio Lower Upper
75 100
77 166.0 25.4 38.2#
39 1204.2 35.3 52.9#

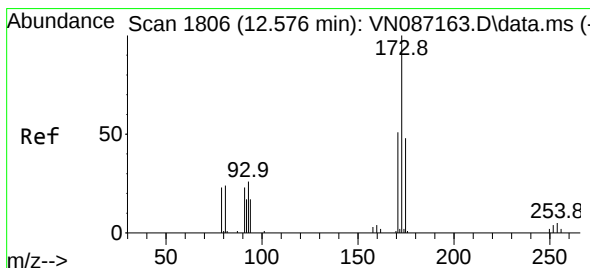
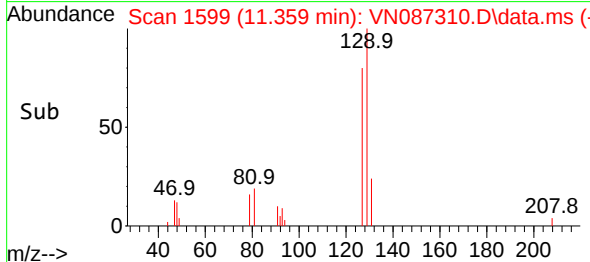
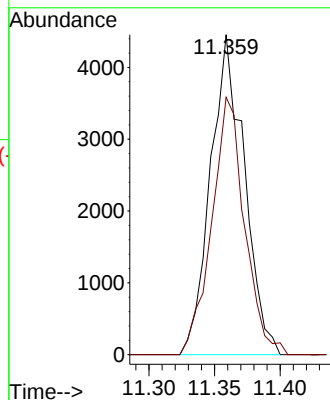
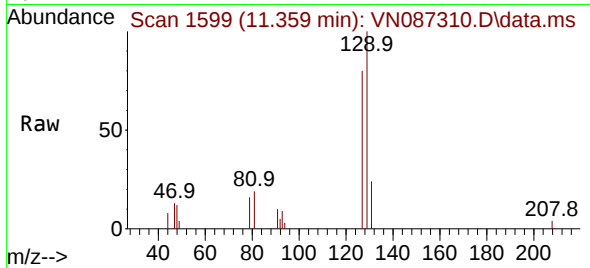




#53
Dibromochloromethane
Concen: 3.091 ug/l
RT: 11.359 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087310.D
Acq: 09 Jul 2025 13:33

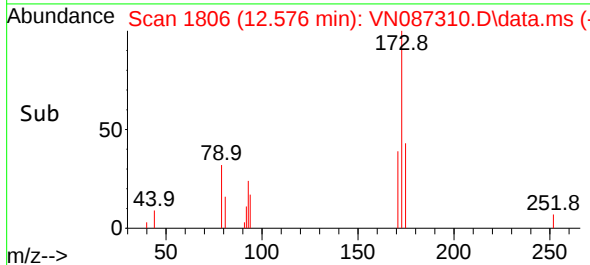
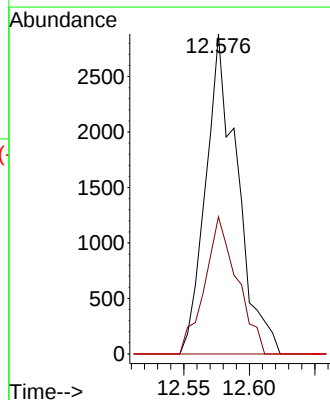
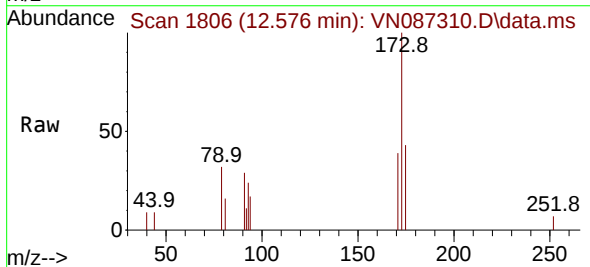
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001 WILLETS PT BLVD (JUNE)

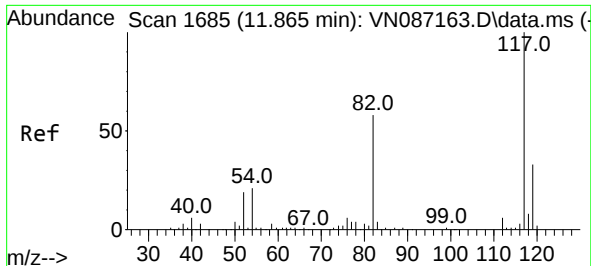
Tgt Ion:129 Resp: 7998
Ion Ratio Lower Upper
129 100
127 78.0 39.6 118.8



#56
Bromoform
Concen: 2.719 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN087310.D
Acq: 09 Jul 2025 13:33

Tgt Ion:173 Resp: 4837
Ion Ratio Lower Upper
173 100
175 44.0 38.7 58.1
254 0.0 4.2 6.4#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087310.D

Acq: 09 Jul 2025 13:33

Instrument :

MSVOA_N

ClientSampleId :

001 WILLETS PT BLVD (JUNE)

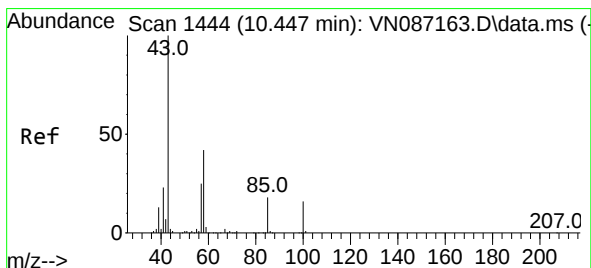
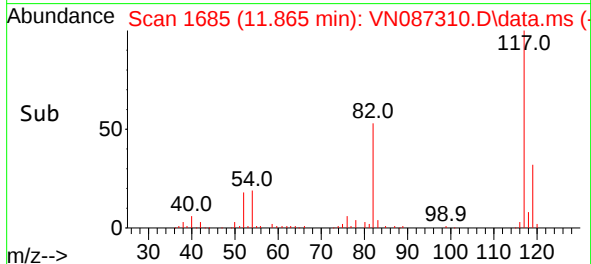
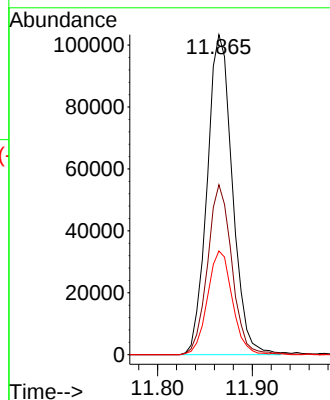
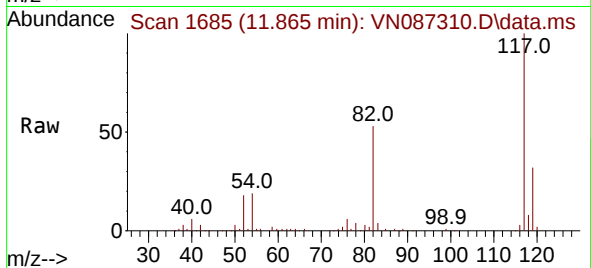
Tgt Ion:117 Resp: 191589

Ion Ratio Lower Upper

117 100

82 51.1 45.4 68.2

119 31.9 26.2 39.4



#58

4-Methyl-2-Pentanone

Concen: 0.214 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VN087310.D

Acq: 09 Jul 2025 13:33

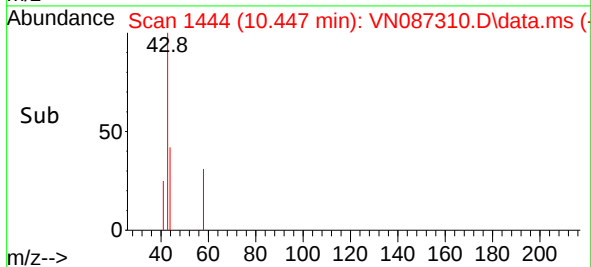
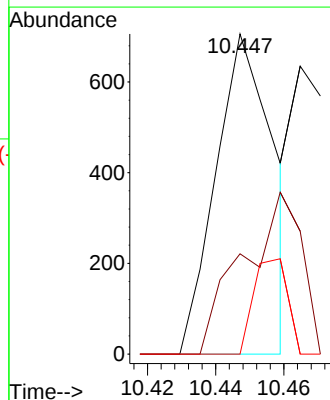
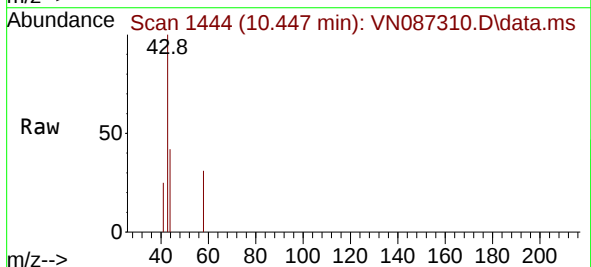
Tgt Ion: 43 Resp: 823

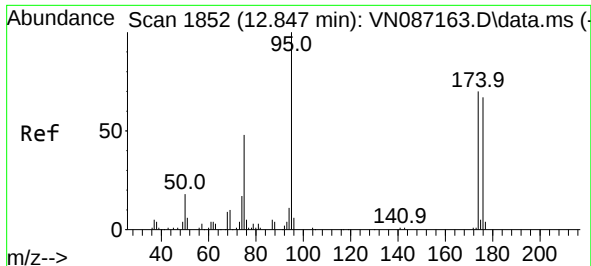
Ion Ratio Lower Upper

43 100

58 24.7 32.6 49.0#

85 0.0 14.6 22.0#

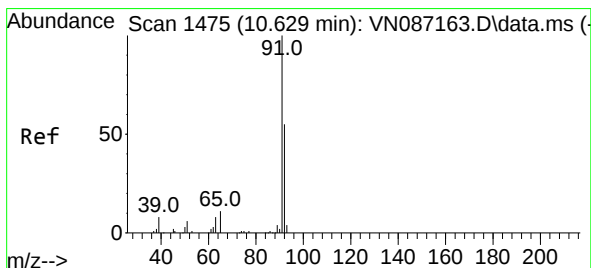
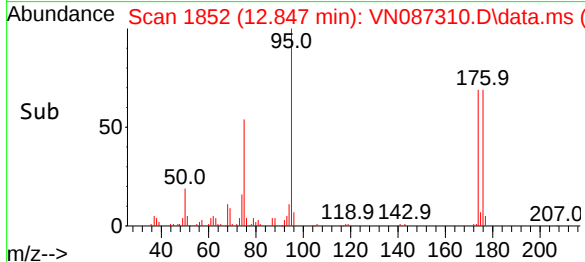
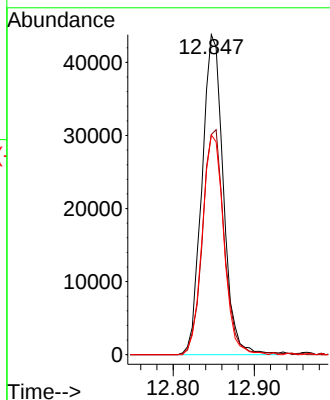
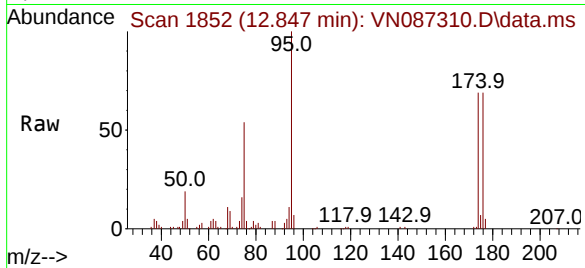




#60
4-Bromofluorobenzene
Concen: 27.022 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087310.D
Acq: 09 Jul 2025 13:33

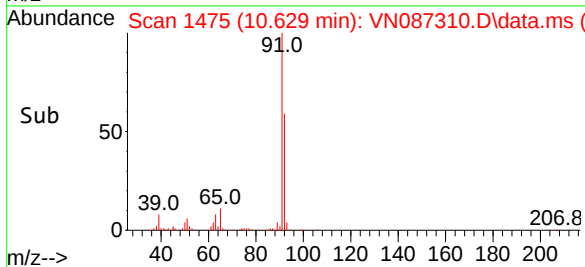
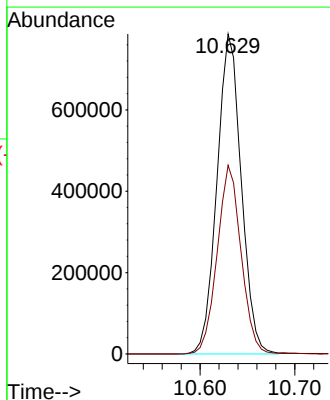
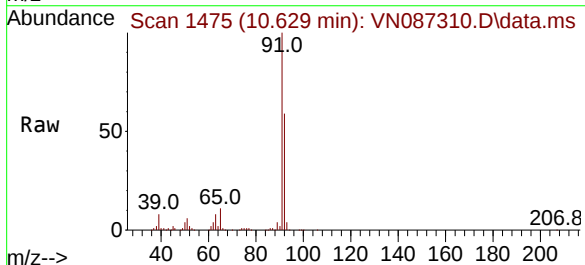
Instrument :
MSVOA_N
ClientSampleId :
001 WILLETS PT BLVD (JUNE)

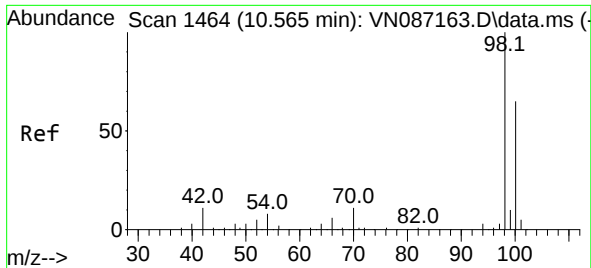
Tgt Ion: 95 Resp: 79889
Ion Ratio Lower Upper
95 100
174 71.1 54.5 81.7
176 68.9 51.9 77.9



#62
Toluene
Concen: 129.470 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN087310.D
Acq: 09 Jul 2025 13:33

Tgt Ion: 91 Resp: 1400951
Ion Ratio Lower Upper
91 100
92 58.0 45.8 68.8

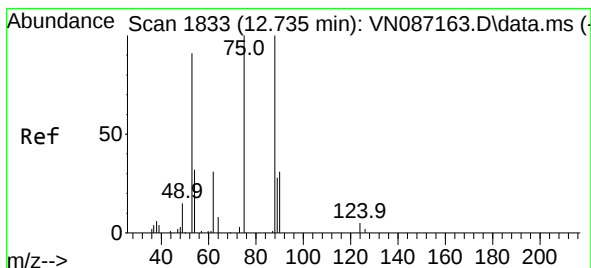
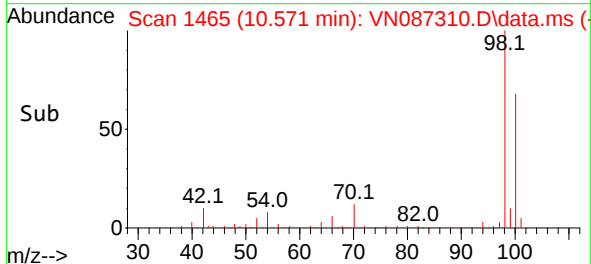
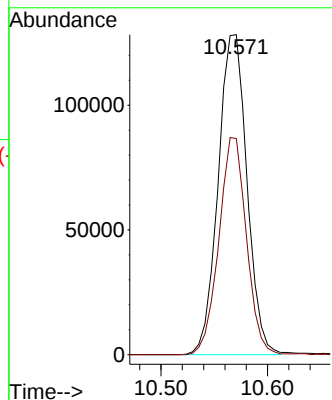
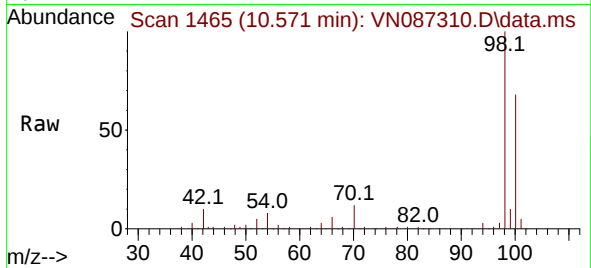




#63
Toluene-d8
Concen: 28.027 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN087310.D
Acq: 09 Jul 2025 13:33

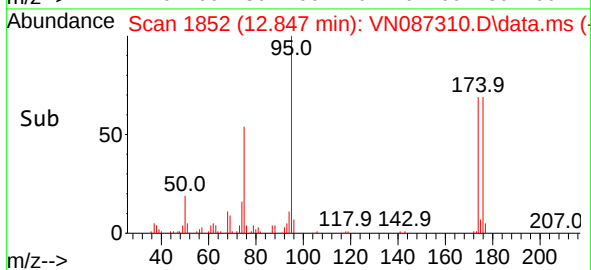
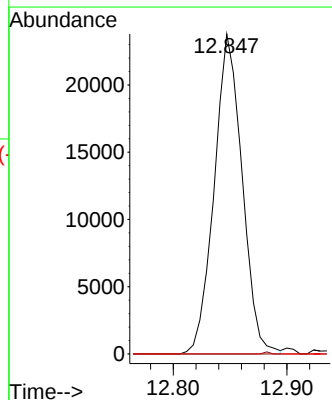
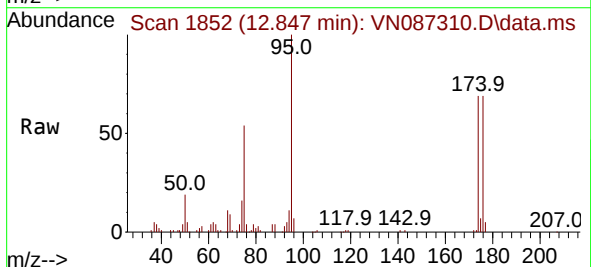
Instrument :
MSVOA_N
ClientSampleId :
001 WILLETS PT BLVD (JUNE)

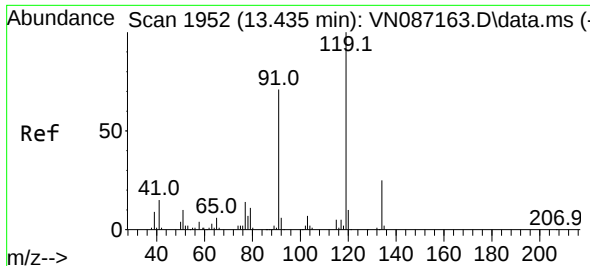
Tgt Ion: 98 Resp: 241101
Ion Ratio Lower Upper
98 100
100 64.9 52.5 78.7



#77
t-1,4-Dichloro-2-butene
Concen: 27.351 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087310.D
Acq: 09 Jul 2025 13:33

Tgt Ion: 75 Resp: 40610
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.6#
89 0.0 22.3 66.9#

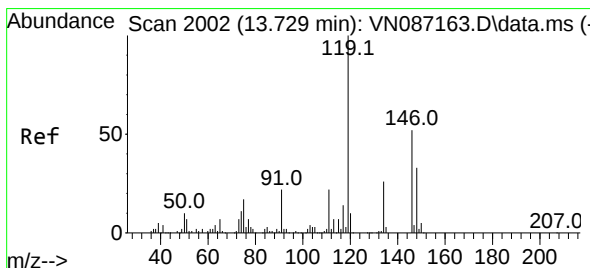
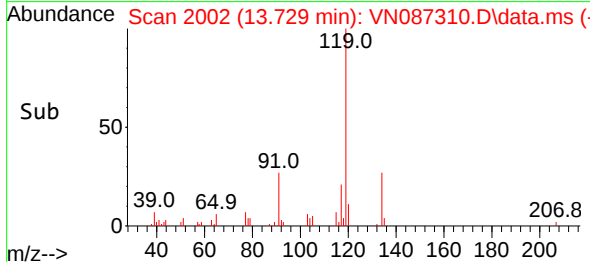
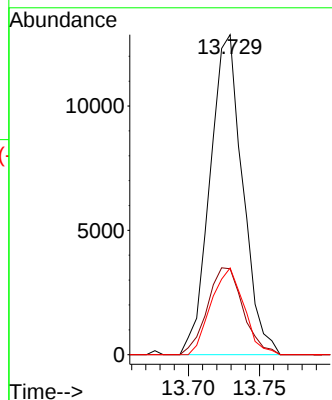
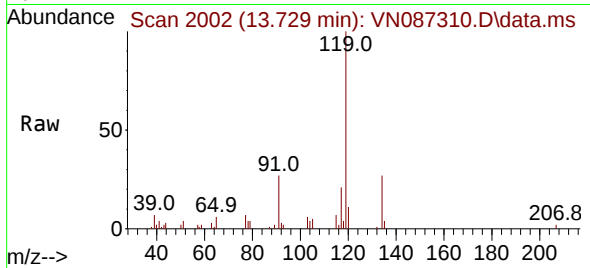




#79
tert-butylbenzene
Concen: 2.788 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.294 min
Lab File: VN087310.D
Acq: 09 Jul 2025 13:33

Instrument :
MSVOA_N
ClientSampleId :
001 WILLETS PT BLVD (JUNE)

Tgt Ion:	119	Resp:	20571
Ion	Ratio	Lower	Upper
119	100		
91	29.8	0.0	137.0
134	27.2	0.0	49.4



#82
p-Isopropyltoluene
Concen: 2.304 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN087310.D
Acq: 09 Jul 2025 13:33

Tgt Ion:	119	Resp:	20571
Ion	Ratio	Lower	Upper
119	100		
134	27.2	0.0	51.2
91	29.8	0.0	46.4

