

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062525\
 Data File : VN087174.D
 Acq On : 25 Jun 2025 13:54
 Operator : JC\MD
 Sample : Q2349-01DL 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

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

Quant Time: Jun 25 15:31:25 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)

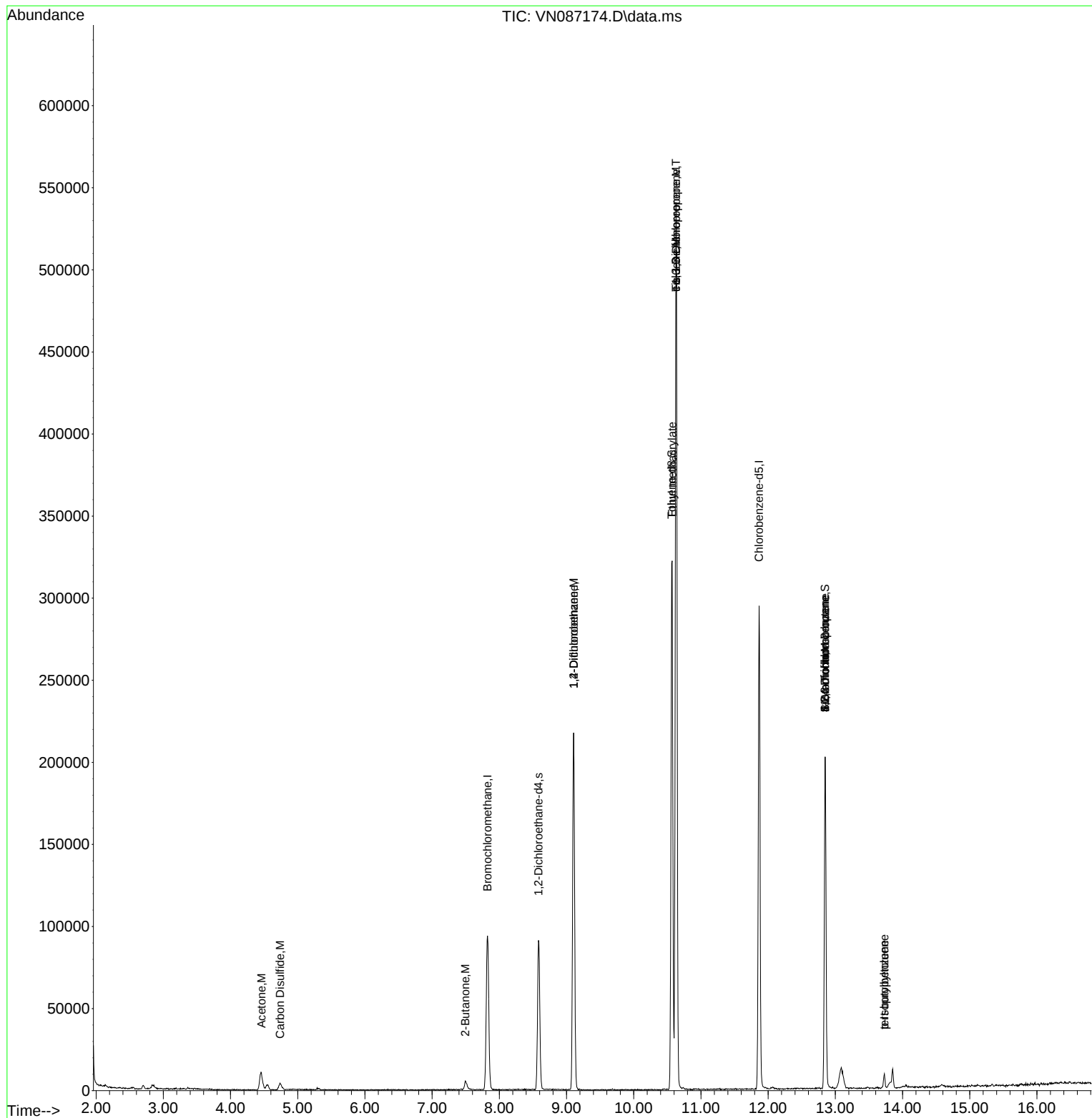
Internal Standards						
1) Bromochloromethane	7.824	128	36259	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	194067	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	178157	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	76877	28.140	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	93.800%
60) 4-Bromofluorobenzene	12.847	95	79063	28.759	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.867%
63) Toluene-d8	10.565	98	231690	28.964	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.533%
Target Compounds						
					Qvalue	
15) Acetone	4.459	58	7024	14.984	ug/l	88
16) Carbon Disulfide	4.736	76	1287	0.200	ug/l #	75
30) 2-Butanone	7.494	43	9517	4.664	ug/l #	83
36) 1,2-Dichloroethane	9.106	62	6542	2.113	ug/l #	75
48) t-1,3-Dichloropropene	10.630	75	2823	0.767	ug/l #	1
49) cis-1,3-Dichloropropene	10.630	75	2823	0.722	ug/l #	1
51) Ethyl methacrylate	10.571	69	836	0.236	ug/l	90
56) Bromoform	12.847	173	520	0.310	ug/l #	1
62) Toluene	10.630	91	424159	42.154	ug/l	99
72) 1,2,3-Trichloropropane	12.847	75	39662	12.742	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	39662	28.726	ug/l #	13
79) tert-butylbenzene	13.729	119	5347	0.779	ug/l	59
82) p-Isopropyltoluene	13.729	119	5347	0.644	ug/l	98

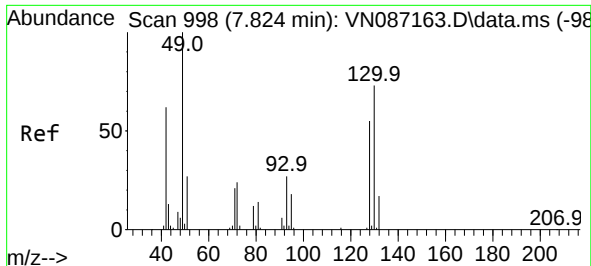
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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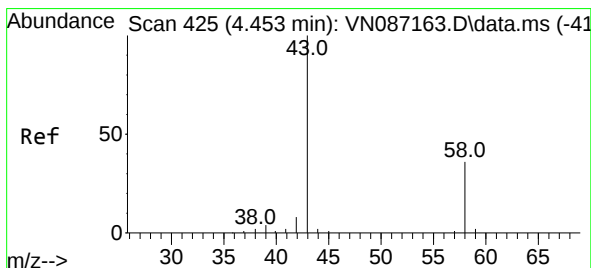
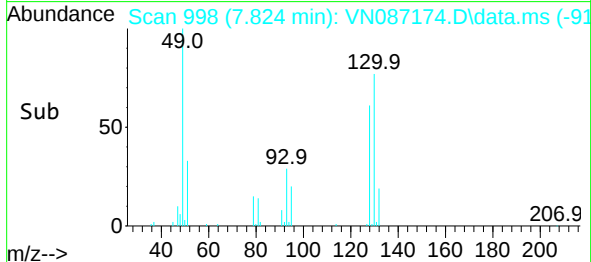
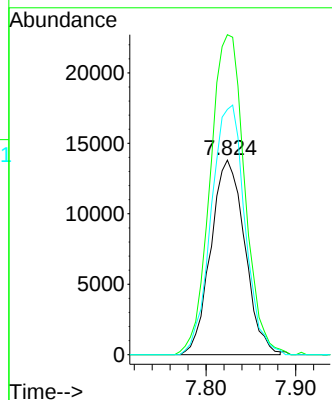
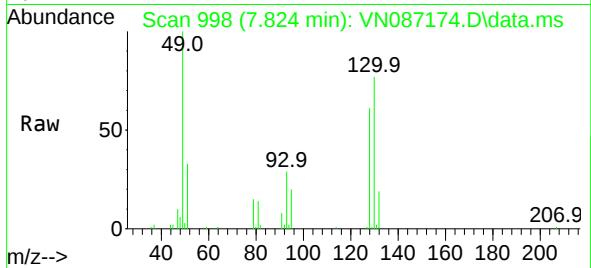




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087174.D
Acq: 25 Jun 2025 13:54

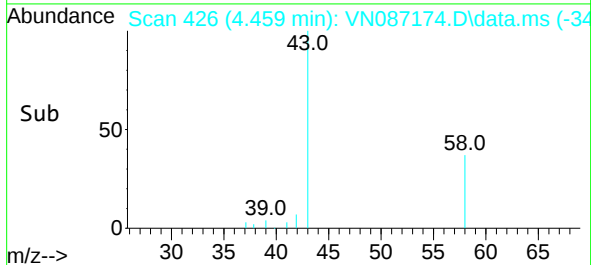
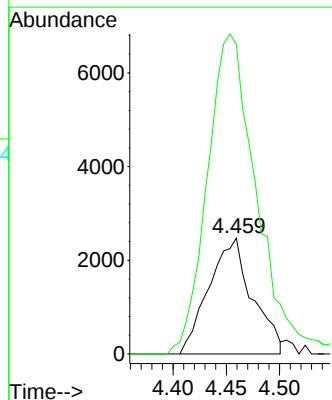
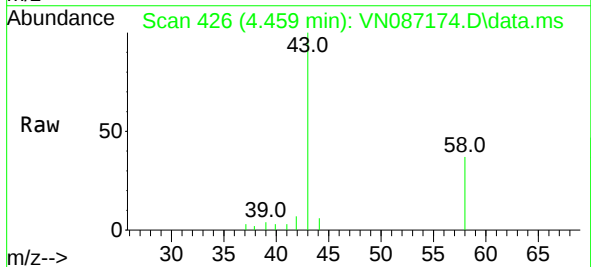
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)DL

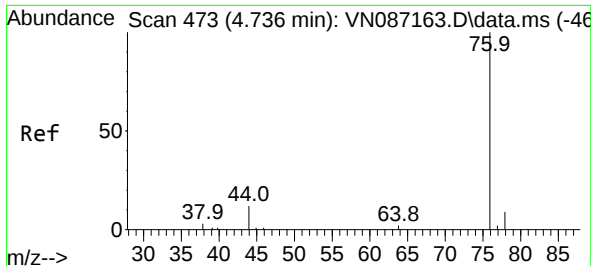
Tgt Ion:128 Resp: 36259
Ion Ratio Lower Upper
128 100
49 167.1 0.0 450.5
130 127.5 0.0 320.7



#15
Acetone
Concen: 14.984 ug/l
RT: 4.459 min Scan# 426
Delta R.T. 0.006 min
Lab File: VN087174.D
Acq: 25 Jun 2025 13:54

Tgt Ion: 58 Resp: 7024
Ion Ratio Lower Upper
58 100
43 257.4 224.3 336.5

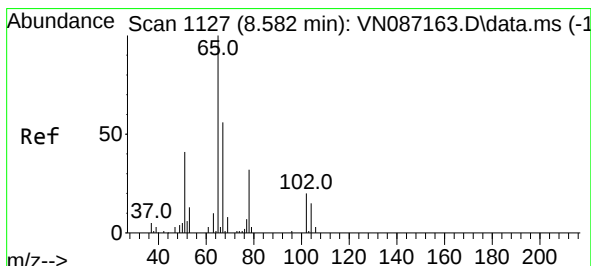
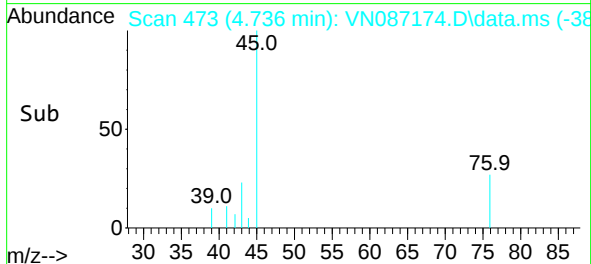
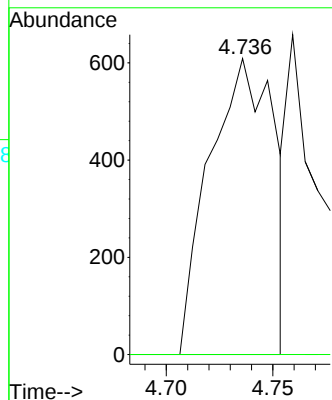
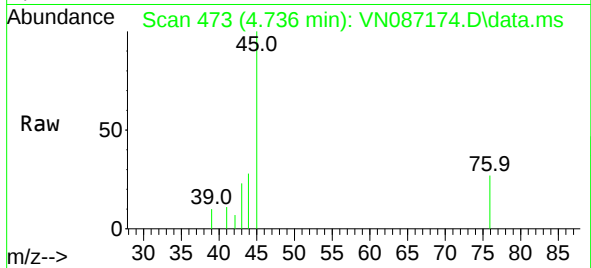




#16
Carbon Disulfide
Concen: 0.200 ug/l
RT: 4.736 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN087174.D
Acq: 25 Jun 2025 13:54

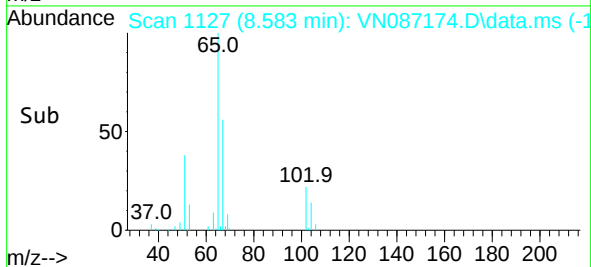
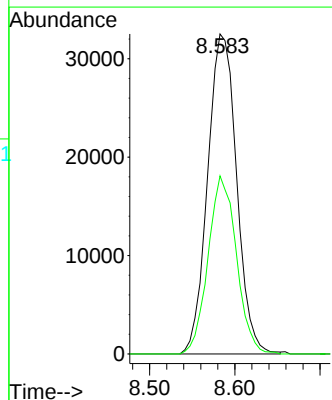
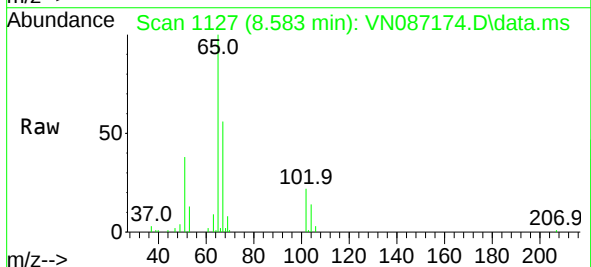
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)DL

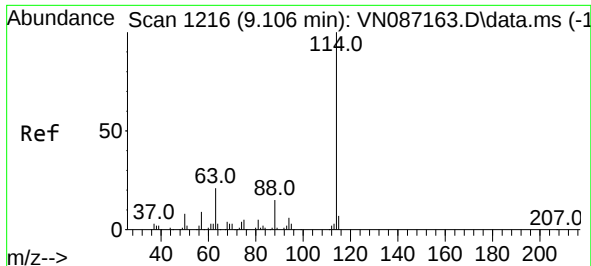
Tgt Ion: 76 Resp: 1287
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#27
1,2-Dichloroethane-d4
Concen: 28.140 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN087174.D
Acq: 25 Jun 2025 13:54

Tgt Ion: 65 Resp: 76877
Ion Ratio Lower Upper
65 100
67 54.2 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: VN087174.D

Acq: 25 Jun 2025 13:54

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(JUNE)DL

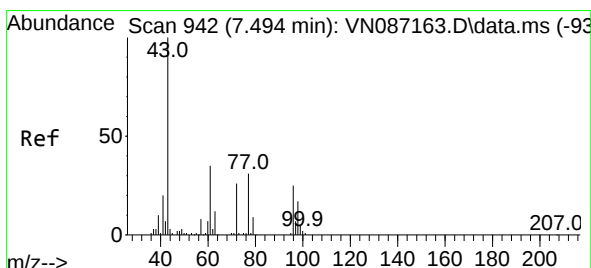
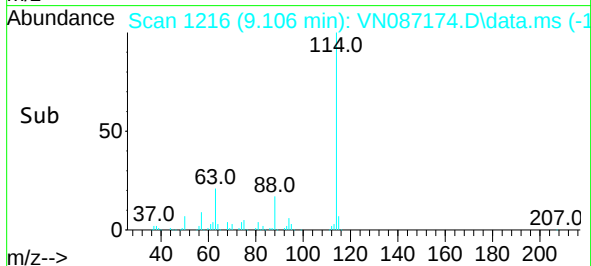
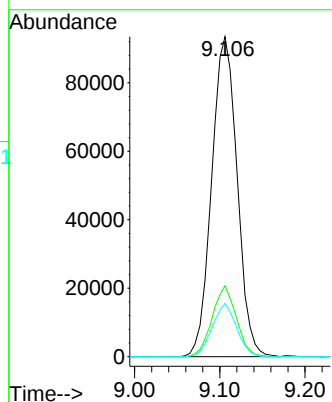
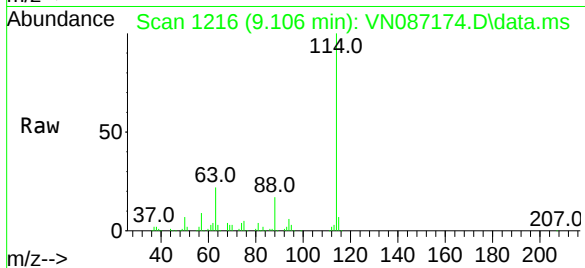
Tgt Ion:114 Resp: 194067

Ion Ratio Lower Upper

114 100

63 21.0 17.0 25.4

88 15.9 12.6 19.0



#30

2-Butanone

Concen: 4.664 ug/l

RT: 7.494 min Scan# 942

Delta R.T. 0.000 min

Lab File: VN087174.D

Acq: 25 Jun 2025 13:54

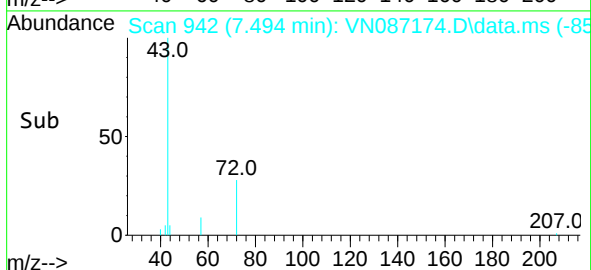
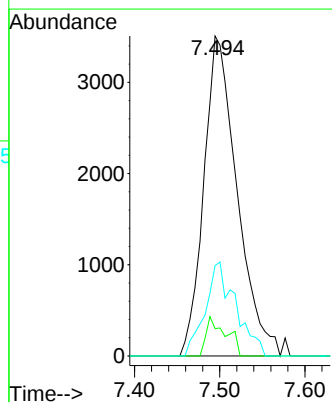
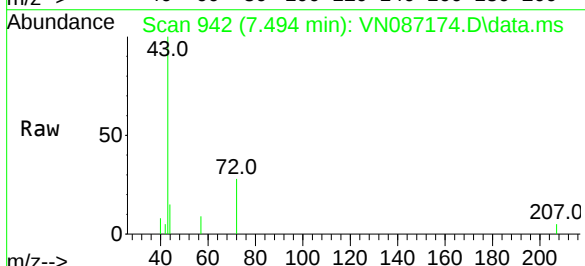
Tgt Ion: 43 Resp: 9517

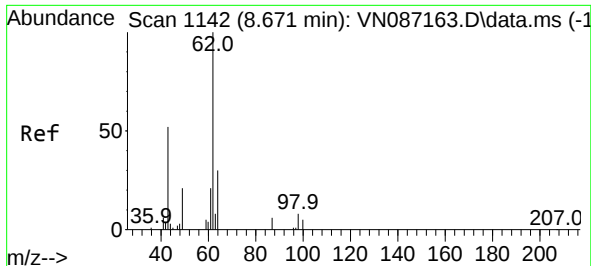
Ion Ratio Lower Upper

43 100

57 5.3 6.3 9.5#

72 16.9 21.8 32.6#





#36

1,2-Dichloroethane

Concen: 2.113 ug/l

RT: 9.106 min Scan# 1142

Delta R.T. 0.435 min

Lab File: VN087174.D

Acq: 25 Jun 2025 13:54

Instrument :

MSVOA_N

ClientSampleId :

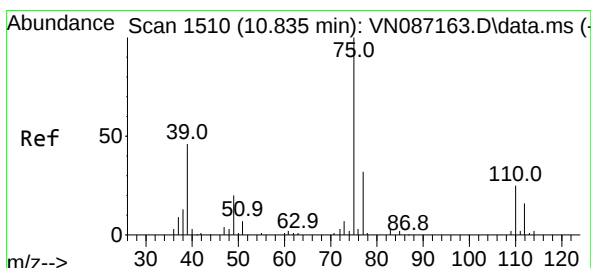
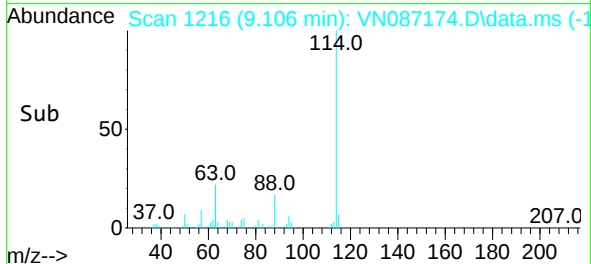
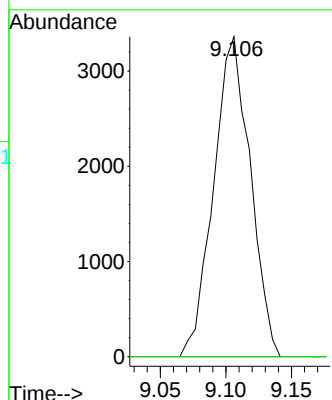
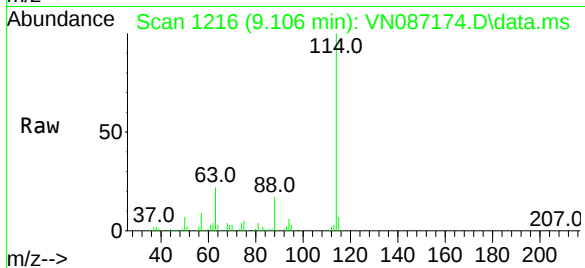
001-WILLETS-PT-BLVD(JUNE)DL

Tgt Ion: 62 Resp: 6542

Ion Ratio Lower Upper

62 100

98 0.0 7.2 10.8#



#48

t-1,3-Dichloropropene

Concen: 0.767 ug/l

RT: 10.630 min Scan# 1475

Delta R.T. -0.206 min

Lab File: VN087174.D

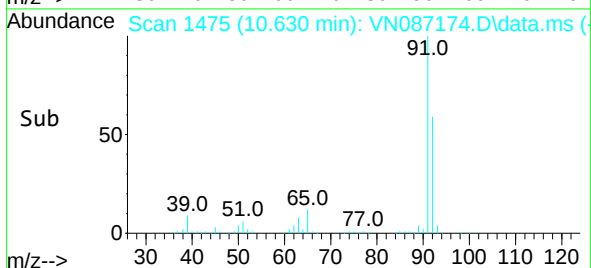
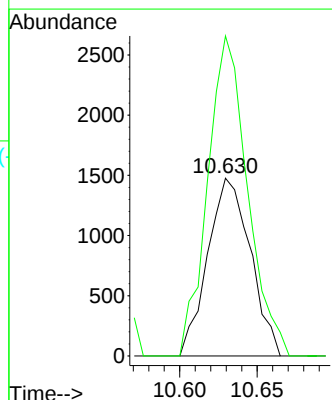
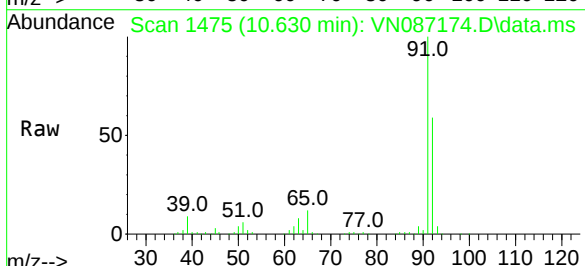
Acq: 25 Jun 2025 13:54

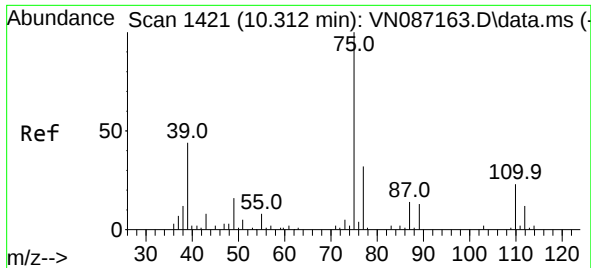
Tgt Ion: 75 Resp: 2823

Ion Ratio Lower Upper

75 100

77 180.1 25.4 38.0#

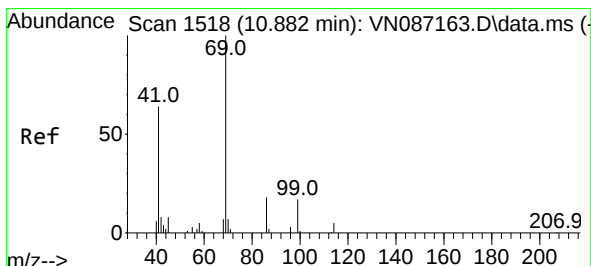
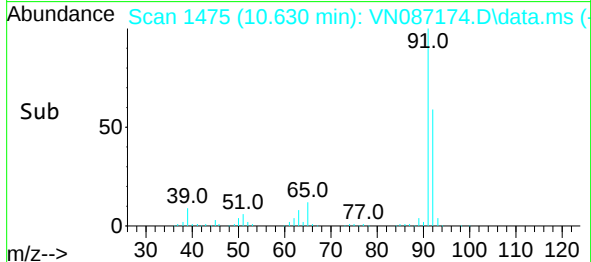
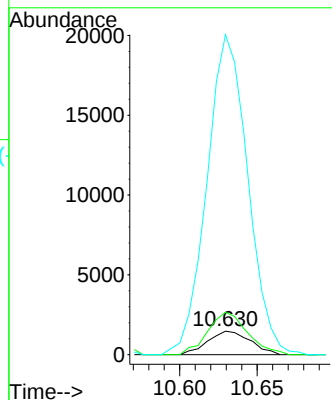
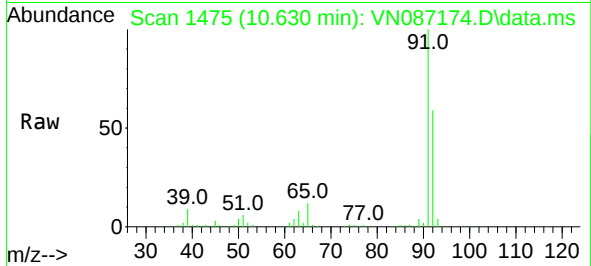




#49
 cis-1,3-Dichloropropene
 Concen: 0.722 ug/l
 RT: 10.630 min Scan# 1421
 Delta R.T. 0.318 min
 Lab File: VN087174.D
 Acq: 25 Jun 2025 13:54

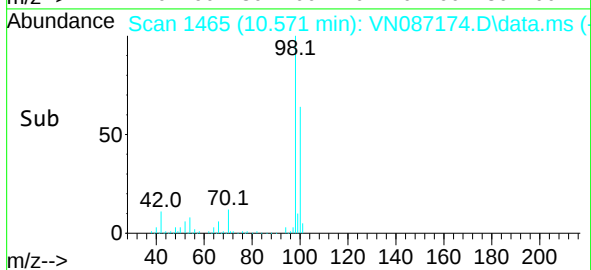
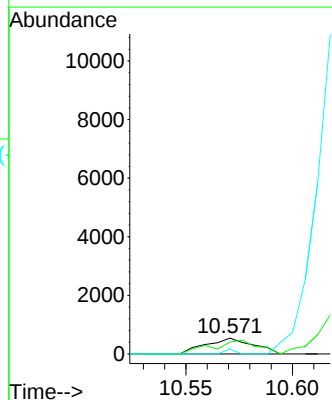
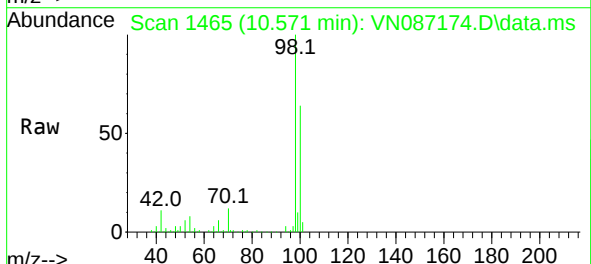
Instrument :
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 001-WILLETS-PT-BLVD(JUNE)DL

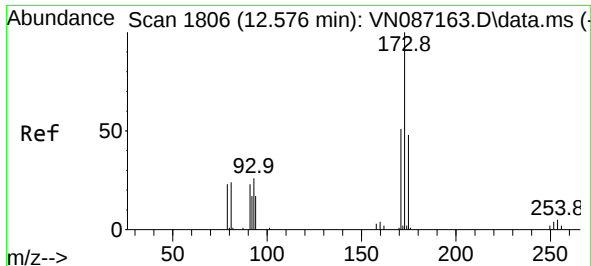
Tgt Ion: 75 Resp: 2823
 Ion Ratio Lower Upper
 75 100
 77 180.1 25.4 38.2#
 39 1319.8 35.3 52.9#



#51
 Ethyl methacrylate
 Concen: 0.236 ug/l
 RT: 10.571 min Scan# 1465
 Delta R.T. -0.312 min
 Lab File: VN087174.D
 Acq: 25 Jun 2025 13:54

Tgt Ion: 69 Resp: 836
 Ion Ratio Lower Upper
 69 100
 41 74.7 31.8 95.3
 39 30.1 15.3 45.8

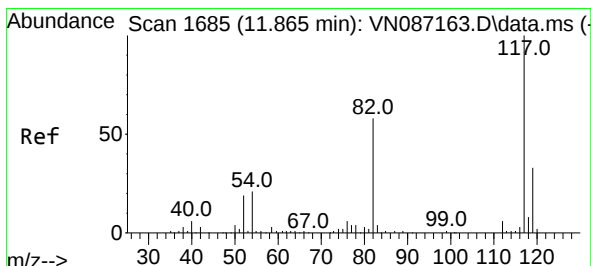
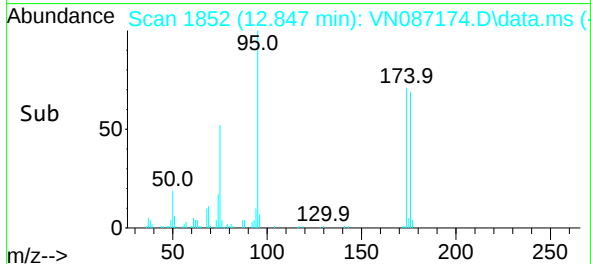
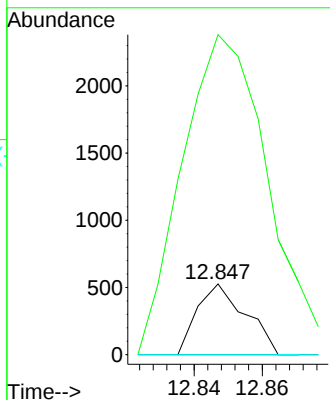
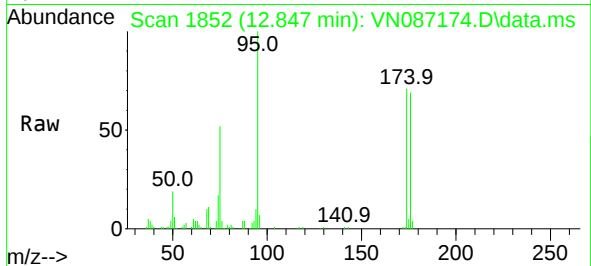




#56
Bromoform
Concen: 0.310 ug/l
RT: 12.847 min Scan# 1806
Delta R.T. 0.271 min
Lab File: VN087174.D
Acq: 25 Jun 2025 13:54

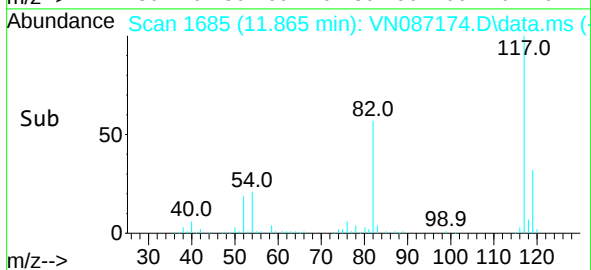
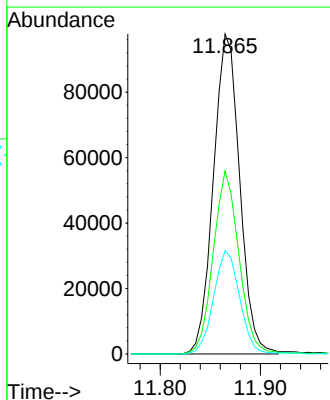
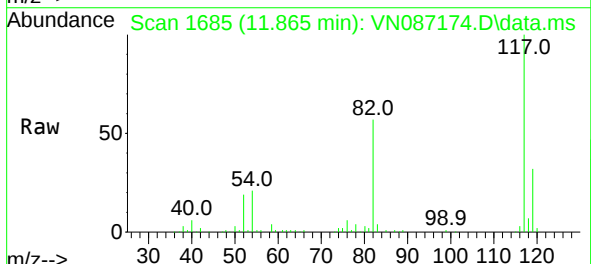
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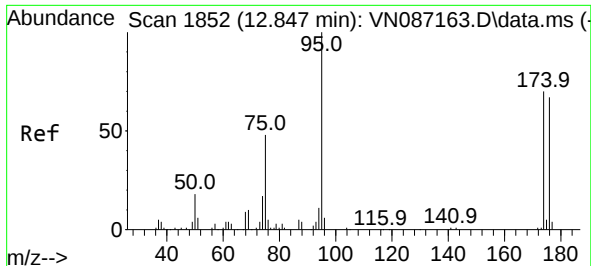
Tgt Ion:173 Resp: 520
Ion Ratio Lower Upper
173 100
175 795.8 38.7 58.1#
254 0.0 4.2 6.4#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN087174.D
Acq: 25 Jun 2025 13:54

Tgt Ion:117 Resp: 178157
Ion Ratio Lower Upper
117 100
82 56.0 45.4 68.2
119 32.0 26.2 39.4

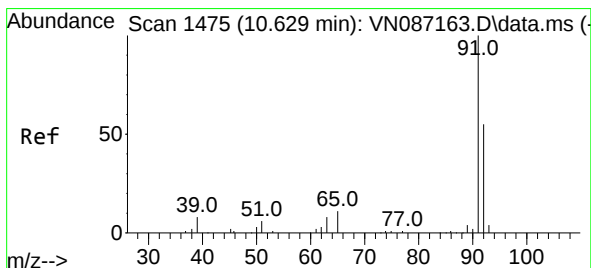
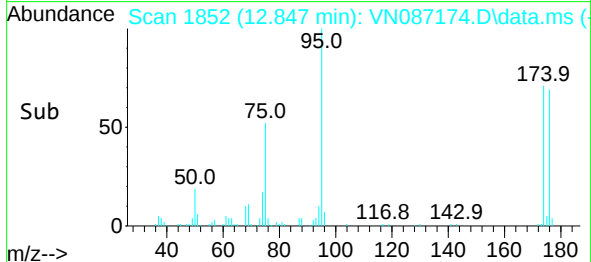
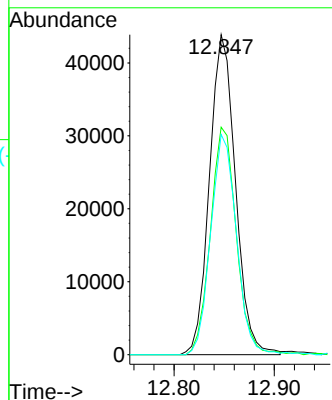
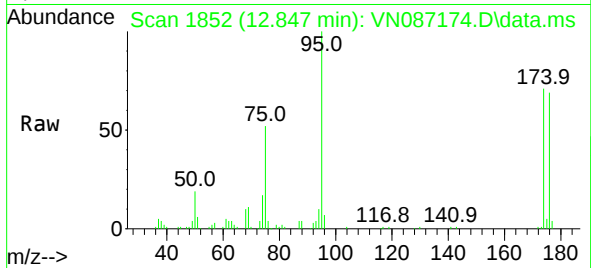




#60
4-Bromofluorobenzene
Concen: 28.759 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087174.D
Acq: 25 Jun 2025 13:54

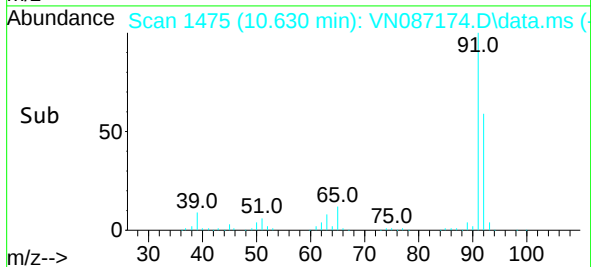
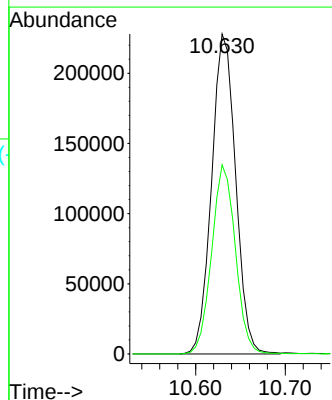
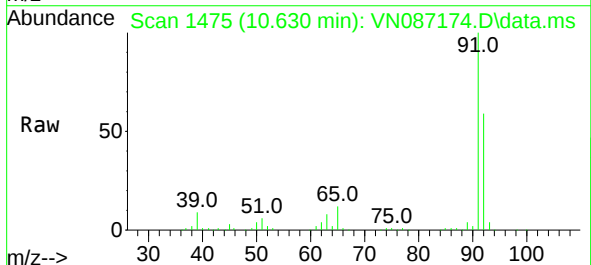
Instrument :
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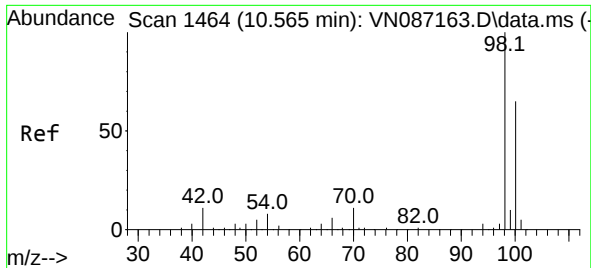
Tgt Ion: 95 Resp: 79063
Ion Ratio Lower Upper
95 100
174 70.8 54.5 81.7
176 68.2 51.9 77.9



#62
Toluene
Concen: 42.154 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN087174.D
Acq: 25 Jun 2025 13:54

Tgt Ion: 91 Resp: 424159
Ion Ratio Lower Upper
91 100
92 58.3 45.8 68.8

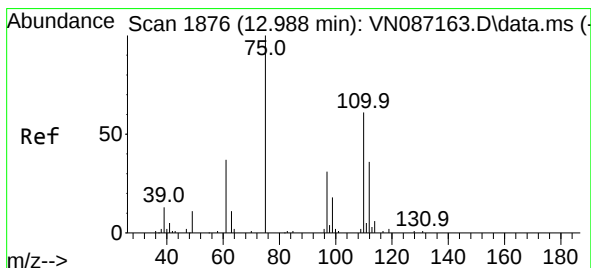
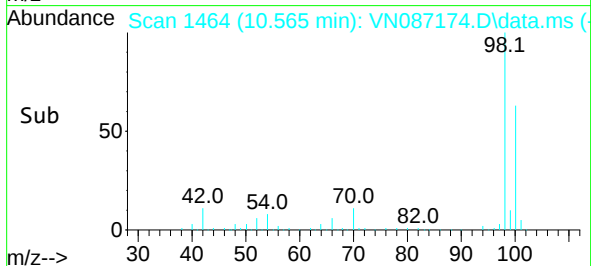
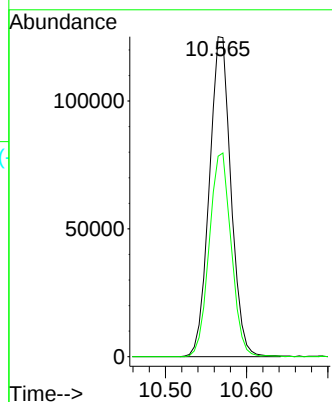
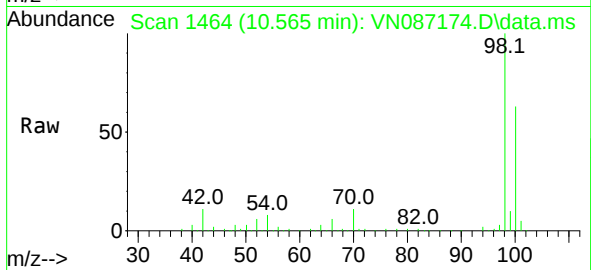




#63
Toluene-d8
Concen: 28.964 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN087174.D
Acq: 25 Jun 2025 13:54

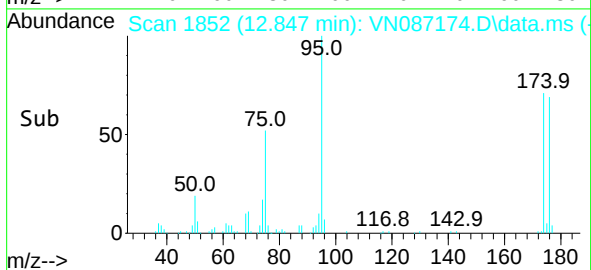
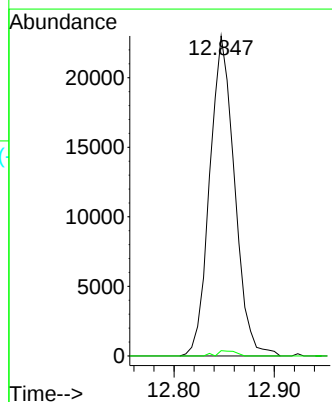
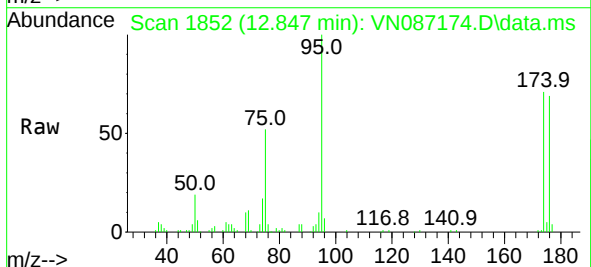
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)DL

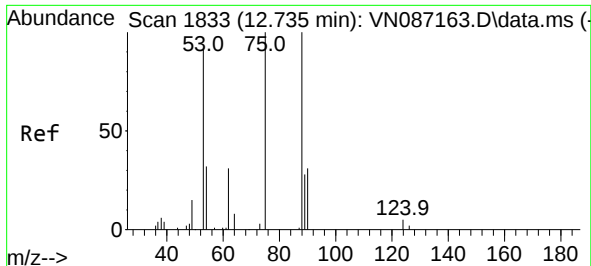
Tgt Ion: 98 Resp: 231690
Ion Ratio Lower Upper
98 100
100 64.4 52.5 78.7



#72
1,2,3-Trichloropropane
Concen: 12.742 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN087174.D
Acq: 25 Jun 2025 13:54

Tgt Ion: 75 Resp: 39662
Ion Ratio Lower Upper
75 100
77 1.1 0.0 379.2





#77

t-1,4-Dichloro-2-butene

Concen: 28.726 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN087174.D

Acq: 25 Jun 2025 13:54

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(JUNE)DL

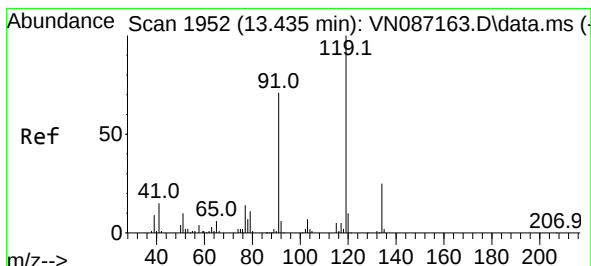
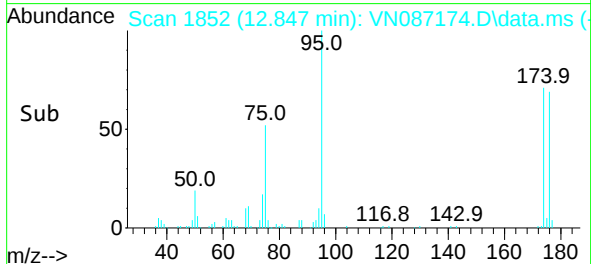
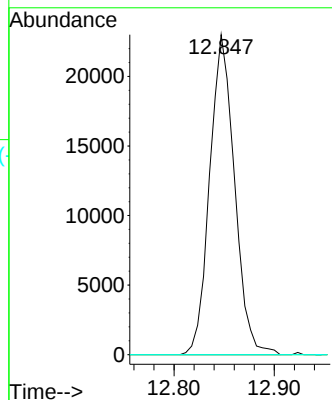
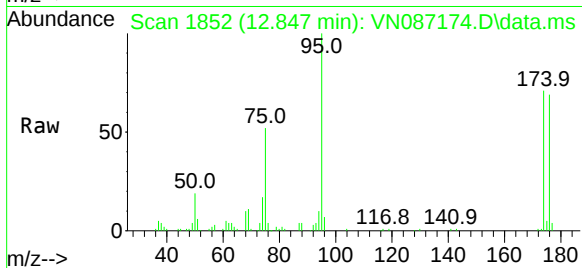
Tgt Ion: 75 Resp: 39662

Ion Ratio Lower Upper

75 100

53 0.0 45.9 137.6#

89 0.0 22.3 66.9#



#79

tert-butylbenzene

Concen: 0.779 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.294 min

Lab File: VN087174.D

Acq: 25 Jun 2025 13:54

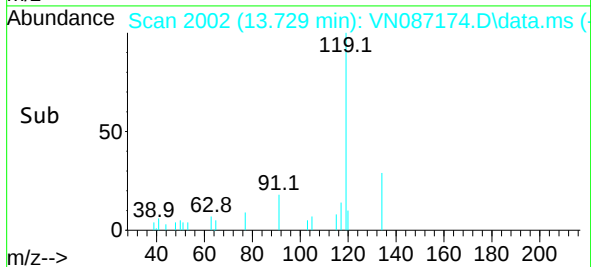
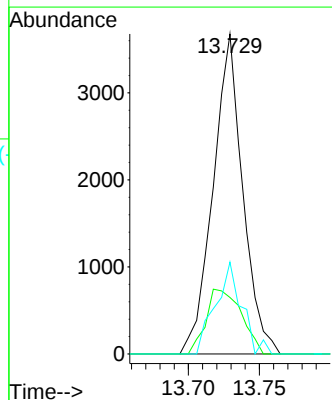
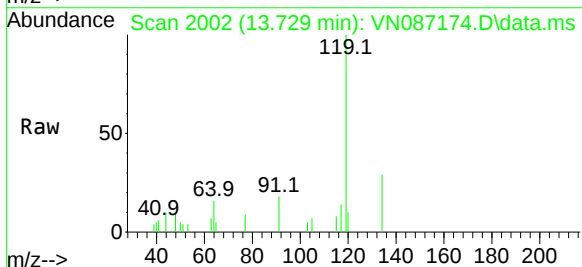
Tgt Ion: 119 Resp: 5347

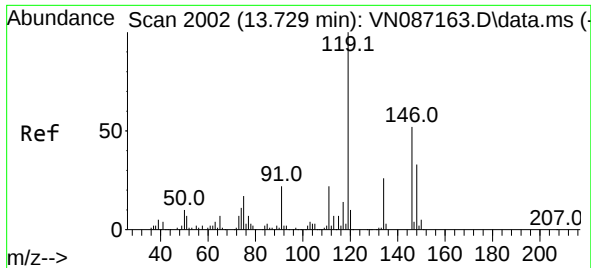
Ion Ratio Lower Upper

119 100

91 24.1 0.0 137.0

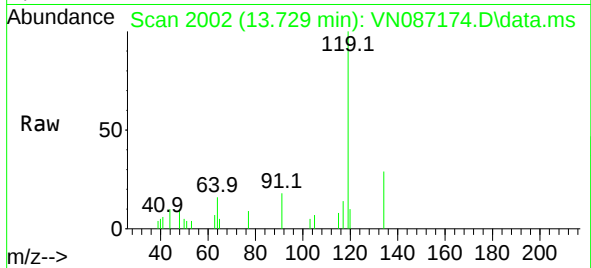
134 24.3 0.0 49.4





#82
 p-Isopropyltoluene
 Concen: 0.644 ug/l
 RT: 13.729 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN087174.D
 Acq: 25 Jun 2025 13:54

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



Tgt Ion:	119	Resp:	5347
Ion	Ratio	Lower	Upper
119	100		
134	24.3	0.0	51.2
91	24.1	0.0	46.4

