

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091525\
 Data File : VN087827.D
 Acq On : 15 Sep 2025 11:32
 Operator : JC\MD
 Sample : PB169678TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB169678TB

Quant Time: Sep 16 01:33:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

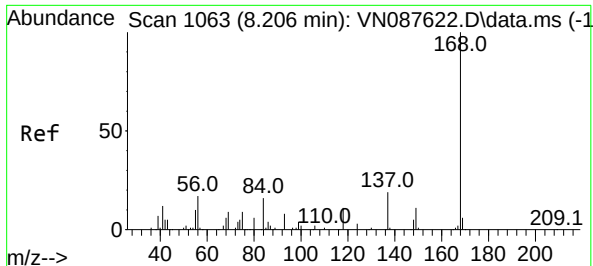
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	202248	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	460940	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	473166	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	225391	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	224341	54.139	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.280%			
35) Dibromofluoromethane	8.153	113	173981	52.278	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.560%			
50) Toluene-d8	10.547	98	614315	49.319	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.640%			
62) 4-Bromofluorobenzene	12.829	95	221236	49.943	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.880%			
Target Compounds						Qvalue
5) Bromomethane	2.989	94	549	0.311	ug/l #	80
10) Methyl Iodide	4.577	142	61	6.835	ug/l #	38
11) Tert butyl alcohol	5.530	59	9568	13.300	ug/l #	89
13) Acrolein	4.165	56	400	0.452	ug/l #	64
16) Acetone	4.424	43	81922	36.317	ug/l	99
17) Carbon Disulfide	4.700	76	1670	0.208	ug/l #	74
18) Methyl Acetate	5.018	43	36536	7.736	ug/l	97
20) Methylene Chloride	5.271	84	22301	5.736	ug/l #	86
25) 2-Butanone	7.471	43	45778	15.425	ug/l	94
29) Tetrahydrofuran	7.824	42	2059	1.078	ug/l #	55
31) Cyclohexane	8.200	56	6365	1.221	ug/l #	1
36) 1,1-Dichloropropene	8.206	75	18440	3.612	ug/l #	51
37) Ethyl Acetate	7.553	43	26633	3.817	ug/l #	94
38) Carbon Tetrachloride	8.200	117	22543	4.472	ug/l #	14
43) Isopropyl Acetate	8.671	43	16289	1.495	ug/l #	92
45) 1,2-Dichloropropane	9.724	63	1834	0.444	ug/l #	43
48) Methyl methacrylate	9.635	41	5916	1.148	ug/l #	46
51) 4-Methyl-2-Pentanone	10.418	43	5821	0.886	ug/l #	76
54) cis-1,3-Dichloropropene	10.341	75	61452	9.498	ug/l #	62
57) 1,3-Dichloropropane	11.188	76	4247	0.639	ug/l #	42
59) 2-Hexanone	11.188	43	84937	20.450	ug/l #	58
76) 1,2,3-Trichloropropane	12.829	75	126335	23.902	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	126335	63.278	ug/l #	1

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

Quant Time: Sep 16 01:33:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

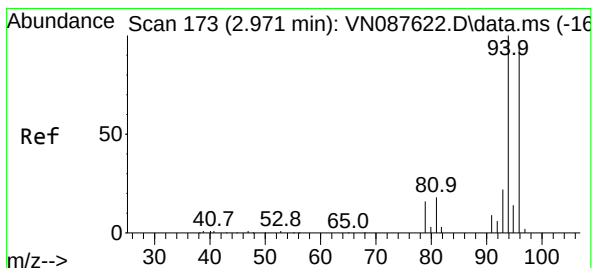
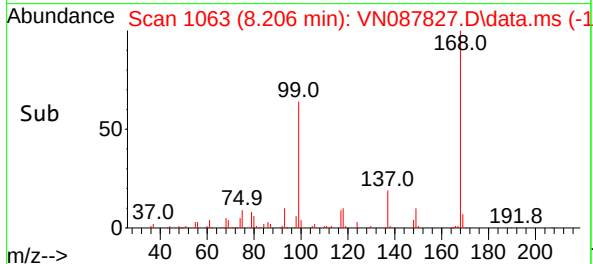
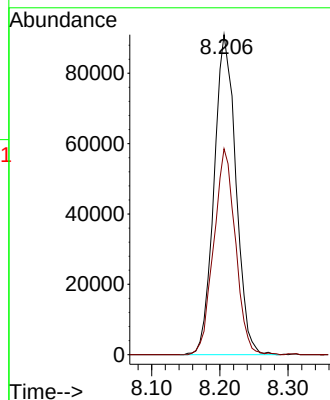
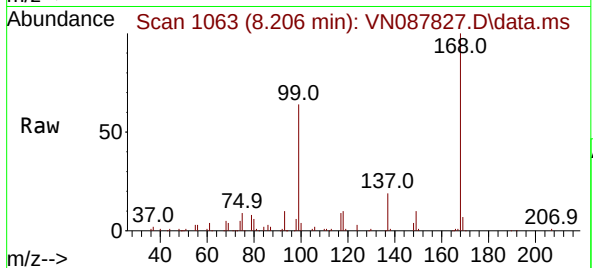




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

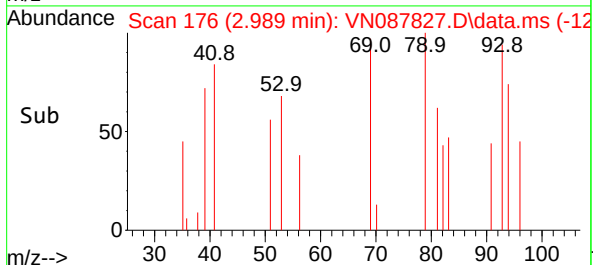
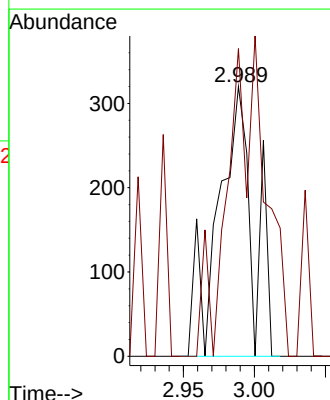
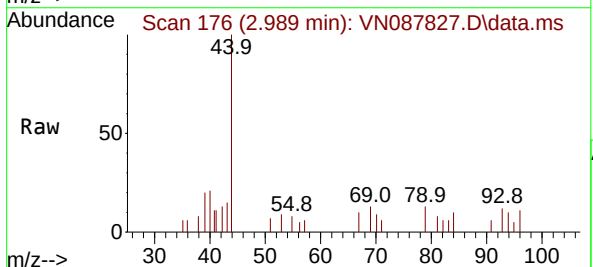
Instrument :
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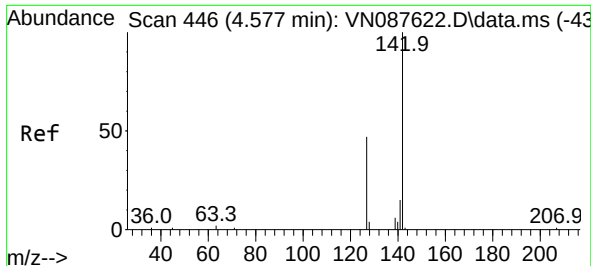
Tgt Ion:168 Resp: 202248
Ion Ratio Lower Upper
168 100
99 64.4 57.2 85.8



#5
Bromomethane
Concen: 0.311 ug/l
RT: 2.989 min Scan# 176
Delta R.T. 0.018 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

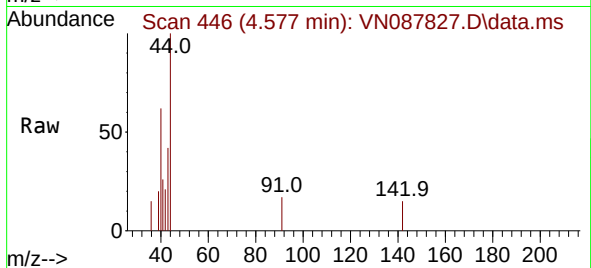
Tgt Ion: 94 Resp: 549
Ion Ratio Lower Upper
94 100
96 114.1 75.4 113.2#



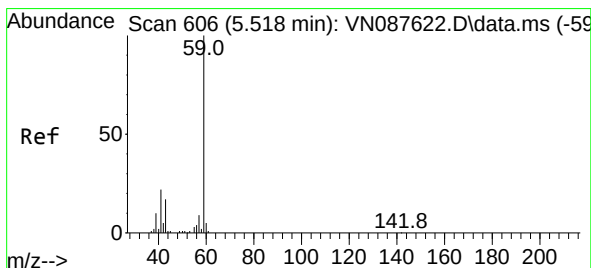
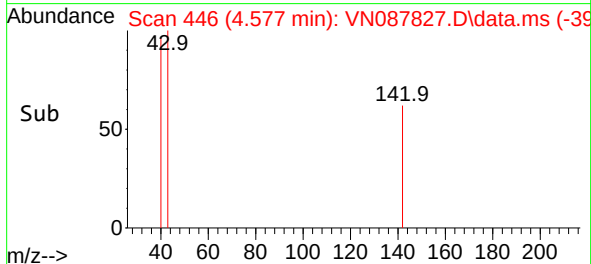
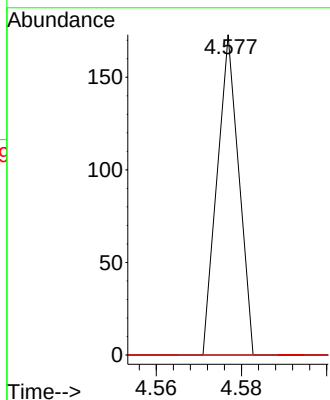


#10
Methyl Iodide
Concen: 6.835 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.000 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

Instrument :
MSVOA_N
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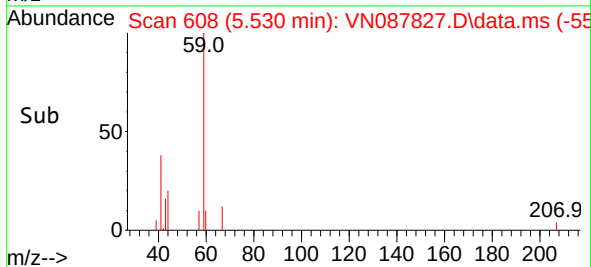
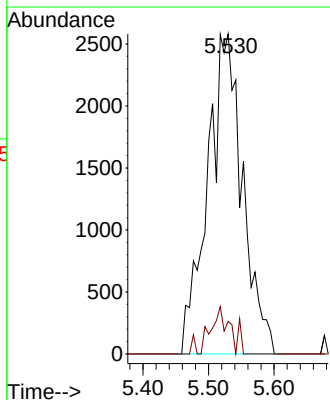
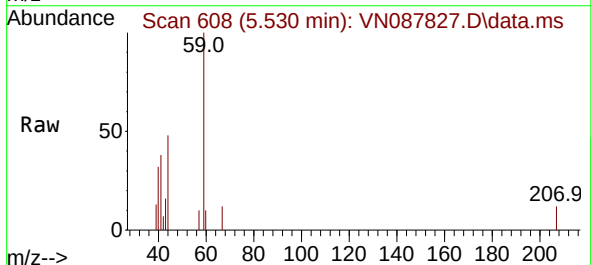


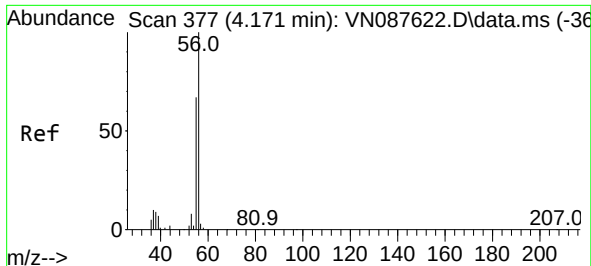
Tgt Ion:142 Resp: 61
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#11
Tert butyl alcohol
Concen: 13.300 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.012 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

Tgt Ion: 59 Resp: 9568
Ion Ratio Lower Upper
59 100
57 7.1 9.0 13.4#

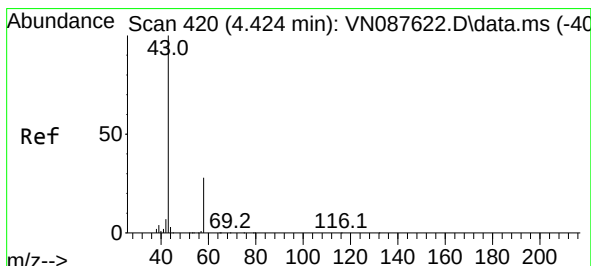
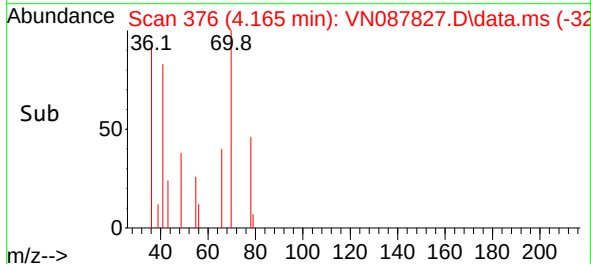
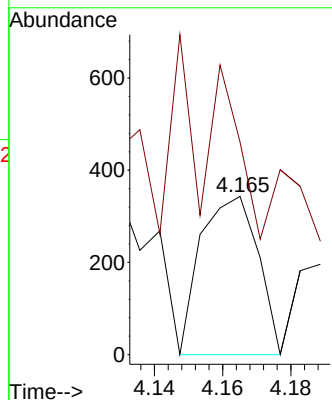
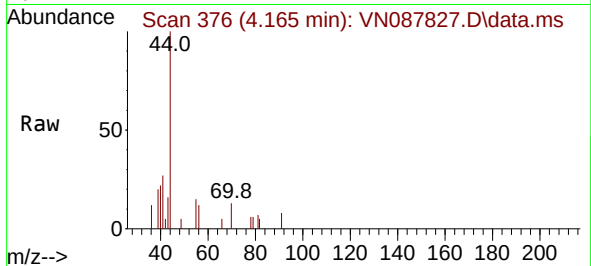




#13
Acrolein
Concen: 0.452 ug/l
RT: 4.165 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

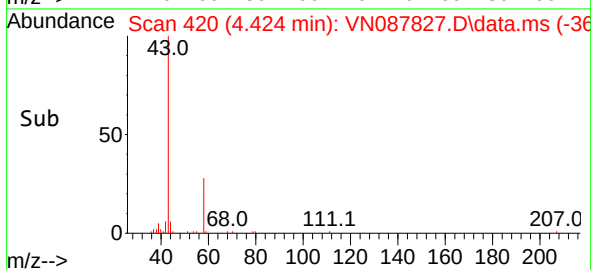
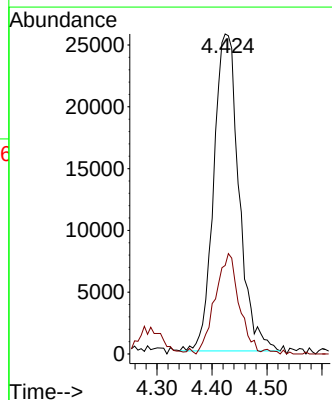
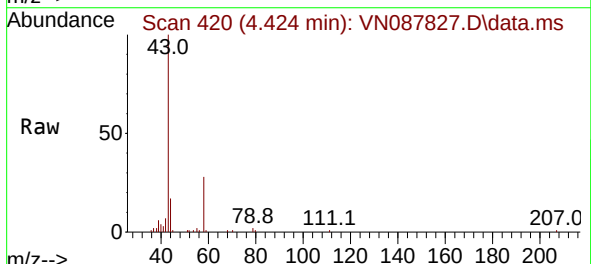
Instrument :
MSVOA_N
ClientSampleId :
PB169678TB

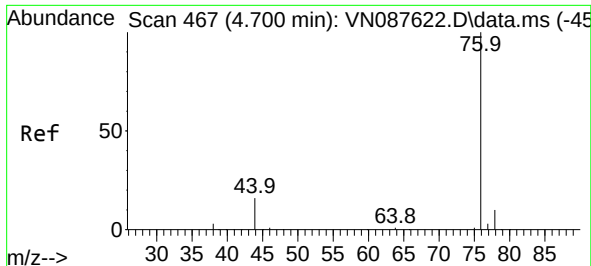
Tgt Ion: 56 Resp: 400
Ion Ratio Lower Upper
56 100
55 41.8 57.3 85.9#



#16
Acetone
Concen: 36.317 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

Tgt Ion: 43 Resp: 81922
Ion Ratio Lower Upper
43 100
58 27.9 22.6 33.8

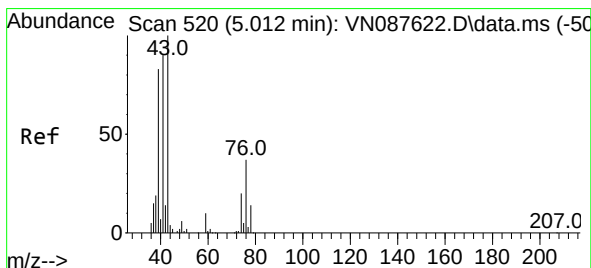
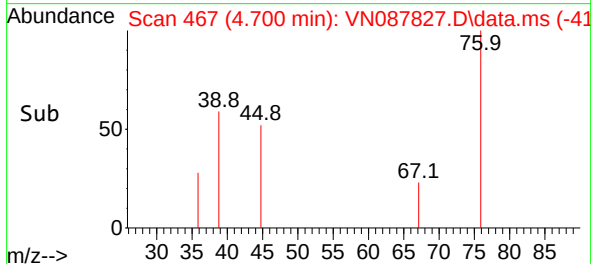
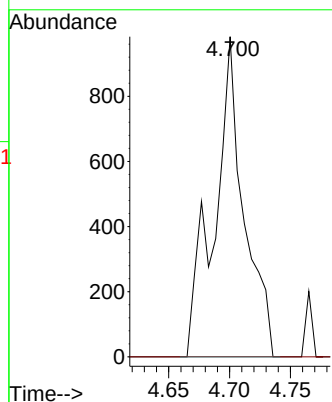
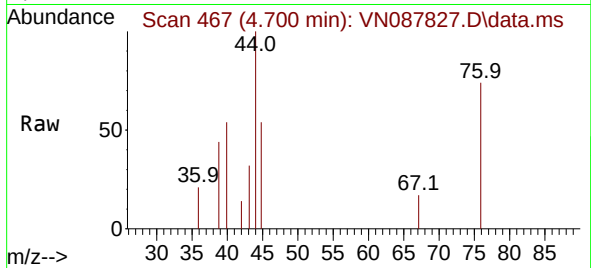




#17
Carbon Disulfide
Concen: 0.208 ug/l
RT: 4.700 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

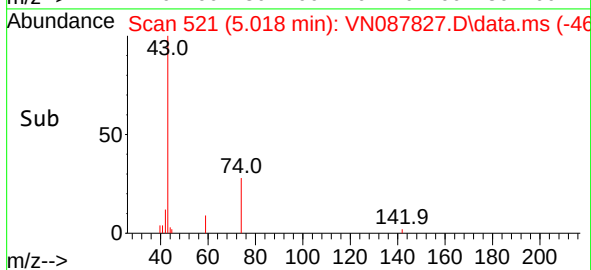
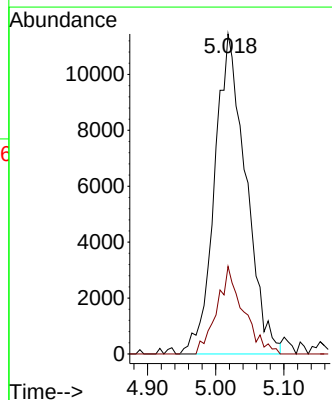
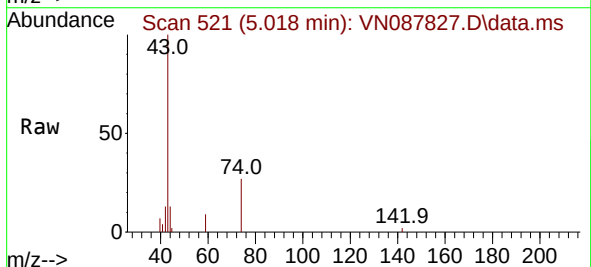
Instrument :
MSVOA_N
ClientSampleId :
PB169678TB

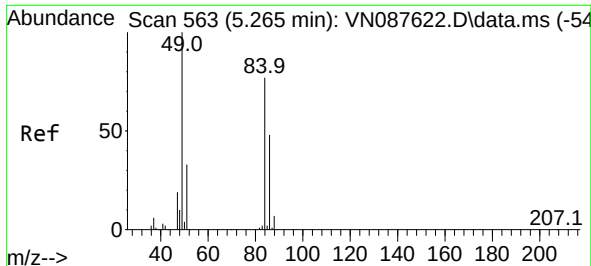
Tgt Ion: 76 Resp: 1670
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



#18
Methyl Acetate
Concen: 7.736 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

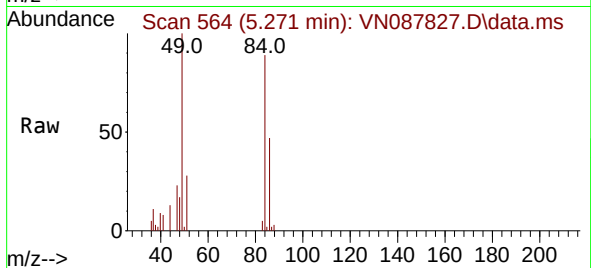
Tgt Ion: 43 Resp: 36536
Ion Ratio Lower Upper
43 100
74 23.3 17.6 26.4



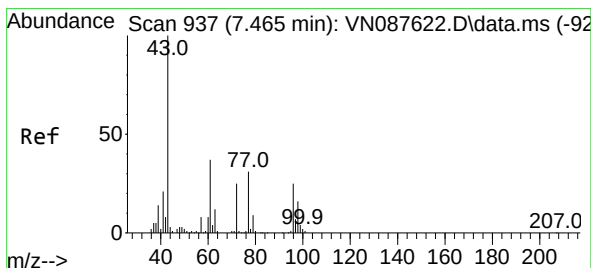
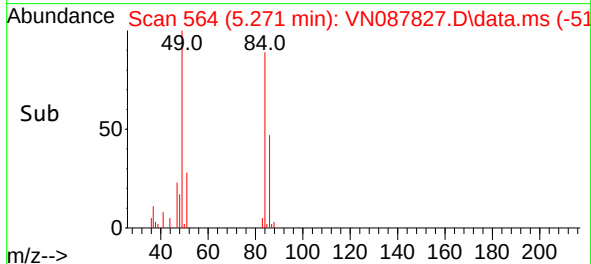
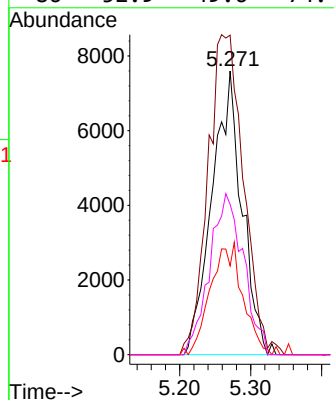


#20
Methylene Chloride
Concen: 5.736 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
PB169678TB

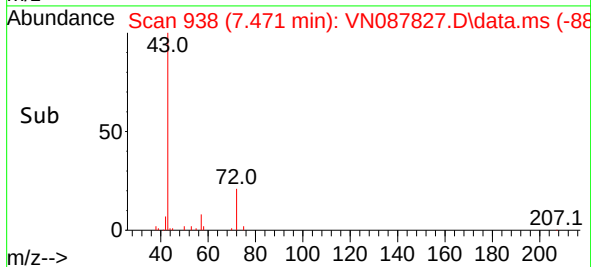
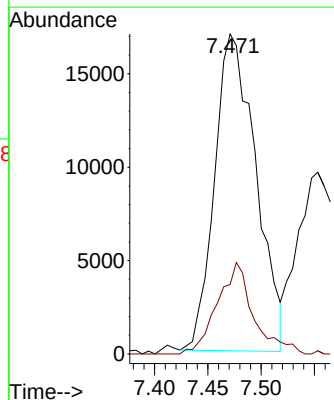
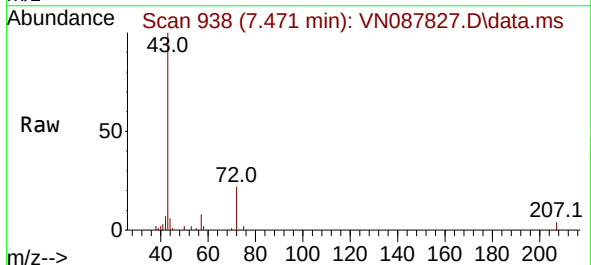


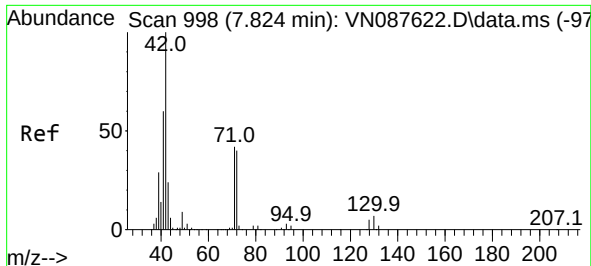
Tgt Ion:	84	Resp:	22301
Ion	Ratio	Lower	Upper
84	100		
49	112.6	103.4	155.2
51	31.3	33.8	50.8#
86	52.9	49.6	74.4



#25
2-Butanone
Concen: 15.425 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.006 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

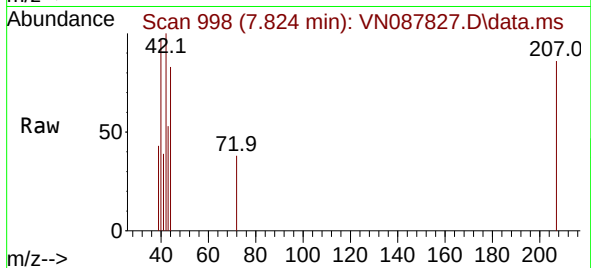
Tgt Ion:	43	Resp:	45778
Ion	Ratio	Lower	Upper
43	100		
72	22.0	19.9	29.9



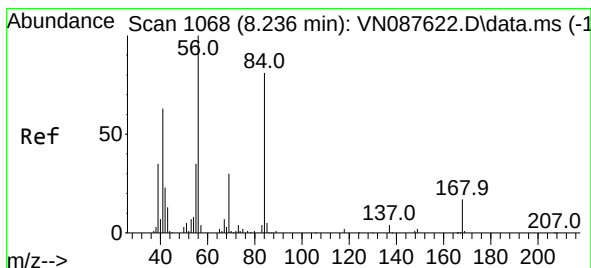
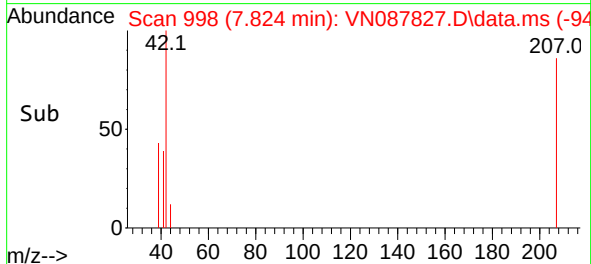
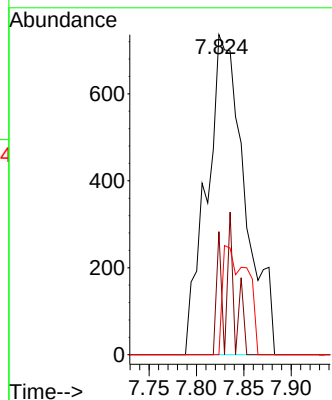


#29
Tetrahydrofuran
Concen: 1.078 ug/l
RT: 7.824 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

Instrument :
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PB169678TB

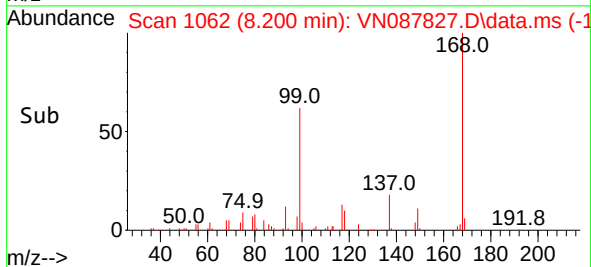
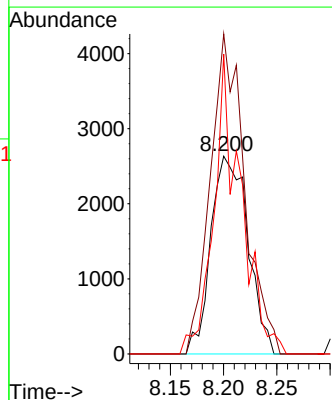
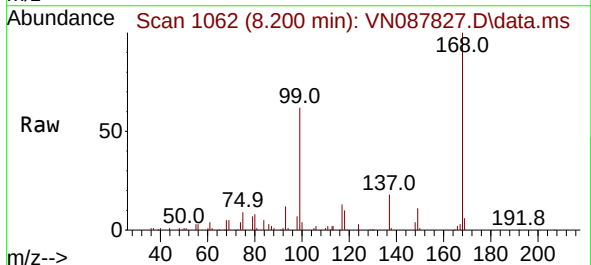


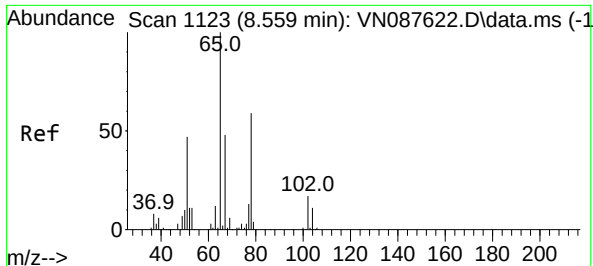
Tgt Ion:	42	Resp:	2059
Ion	Ratio	Lower	Upper
42	100		
72	4.9	33.7	50.5#
71	21.5	31.9	47.9#



#31
Cyclohexane
Concen: 1.221 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.035 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

Tgt Ion:	56	Resp:	6365
Ion	Ratio	Lower	Upper
56	100		
69	161.8	23.7	35.5#
84	151.6	64.7	97.1#





#33

1,2-Dichloroethane-d4

Concen: 54.139 ug/l

RT: 8.565 min Scan# 1123

Delta R.T. 0.006 min

Lab File: VN087827.D

Acq: 15 Sep 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

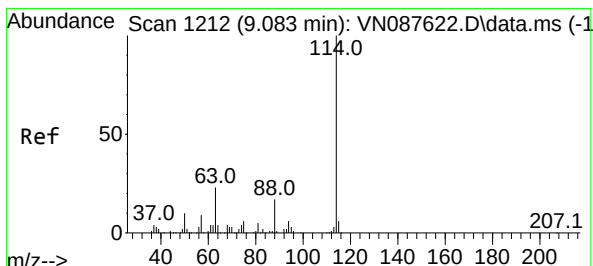
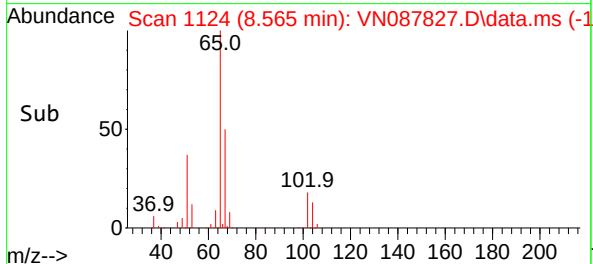
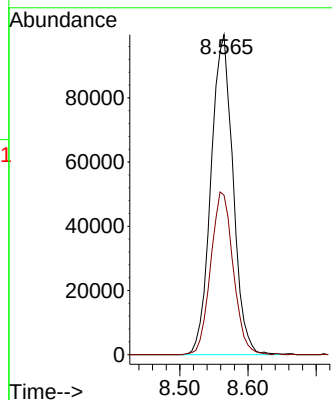
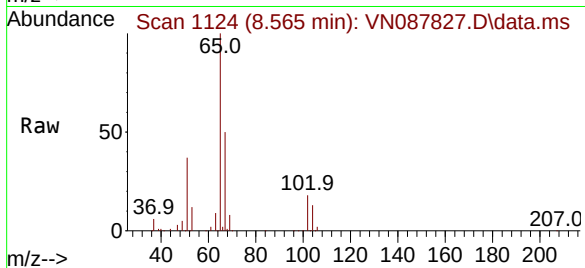
PB169678TB

Tgt Ion: 65 Resp: 224341

Ion Ratio Lower Upper

65 100

67 51.9 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087827.D

Acq: 15 Sep 2025 11:32

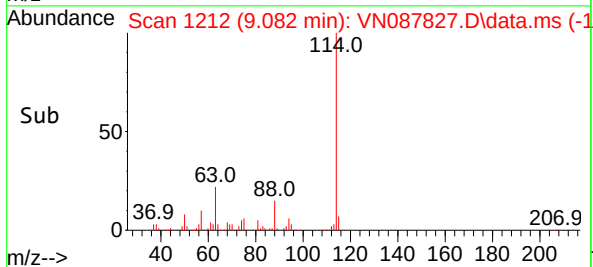
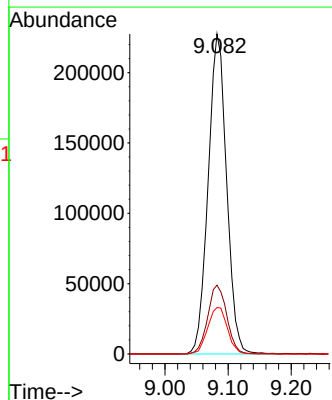
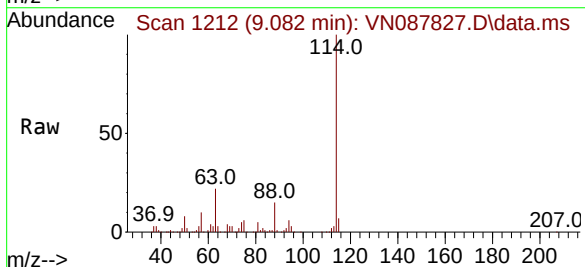
Tgt Ion: 114 Resp: 460940

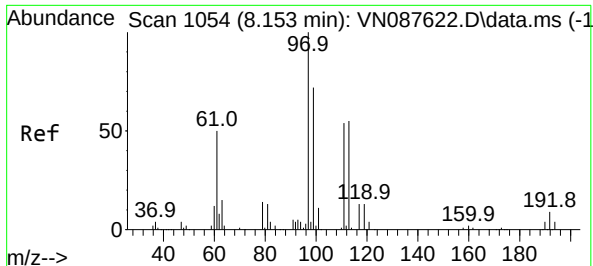
Ion Ratio Lower Upper

114 100

63 21.5 0.0 45.2

88 14.5 0.0 33.4





#35

Dibromofluoromethane

Concen: 52.278 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. -0.000 min

Lab File: VN087827.D

Acq: 15 Sep 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

PB169678TB

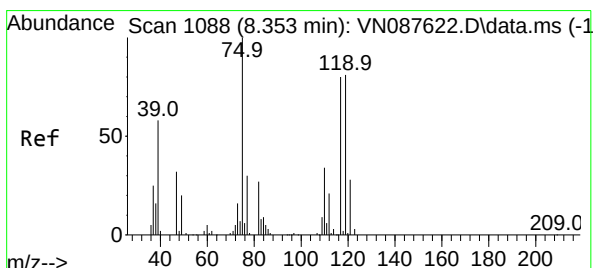
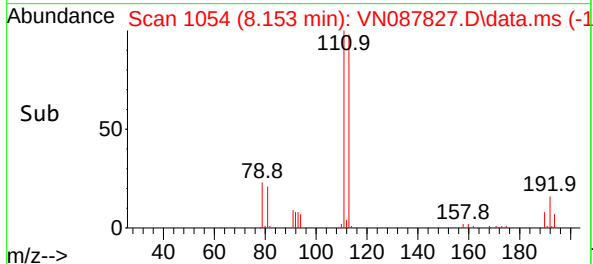
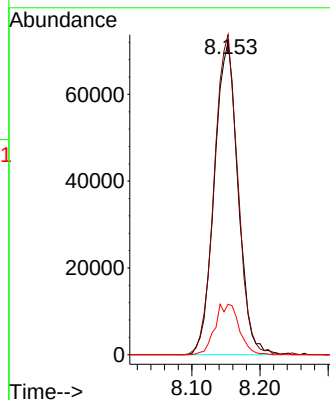
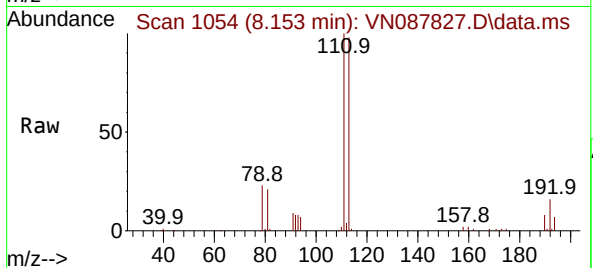
Tgt Ion:113 Resp: 173981

Ion Ratio Lower Upper

113 100

111 101.9 82.8 124.2

192 16.5 12.8 19.2



#36

1,1-Dichloropropene

Concen: 3.612 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087827.D

Acq: 15 Sep 2025 11:32

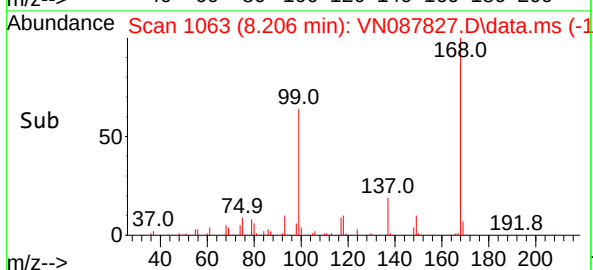
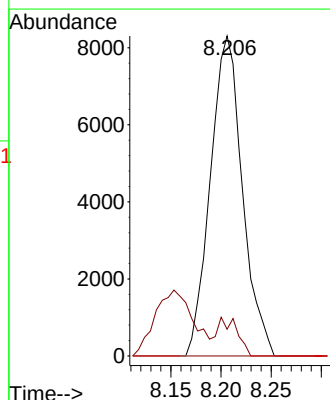
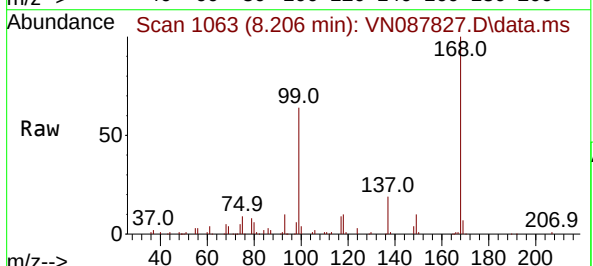
Tgt Ion: 75 Resp: 18440

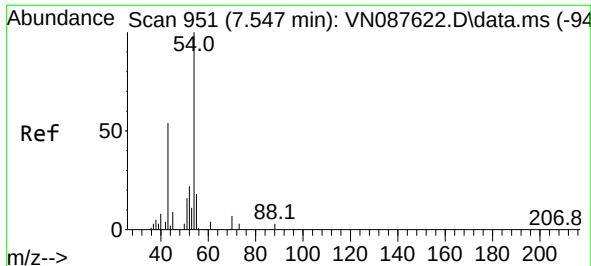
Ion Ratio Lower Upper

75 100

110 7.6 15.9 47.6#

77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 3.817 ug/l

RT: 7.553 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN087827.D

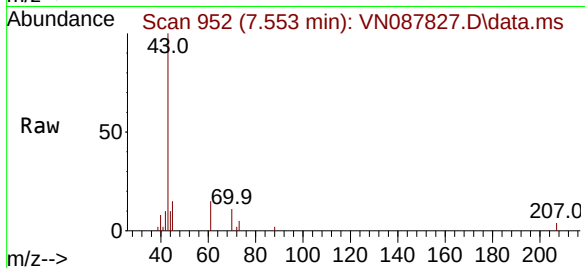
Acq: 15 Sep 2025 11:32

Instrument :

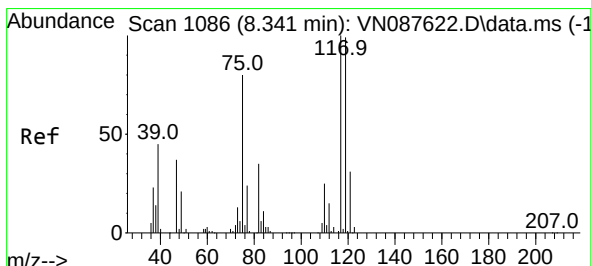
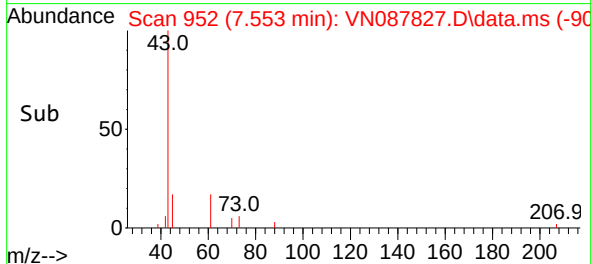
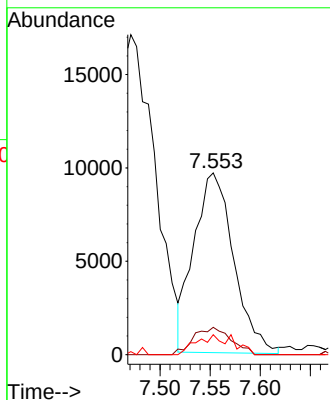
MSVOA_N

ClientSampleId :

PB169678TB



Tgt Ion:	43	Resp:	26633
Ion	Ratio	Lower	Upper
43	100		
61	14.2	9.3	13.9#
70	10.2	7.0	10.6



#38

Carbon Tetrachloride

Concen: 4.472 ug/l

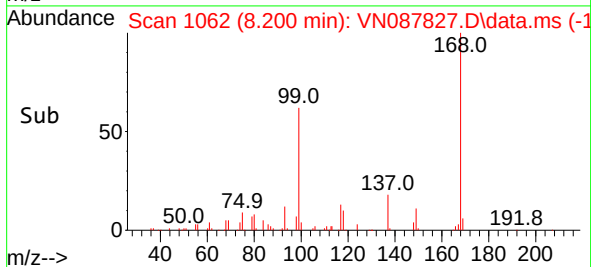
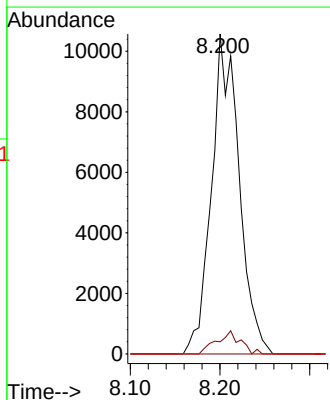
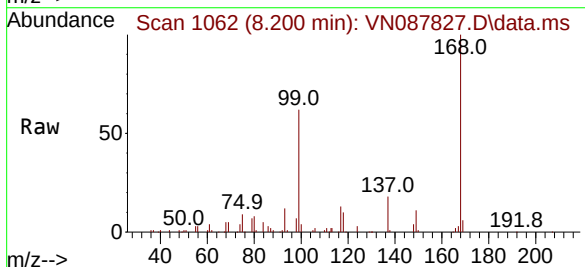
RT: 8.200 min Scan# 1062

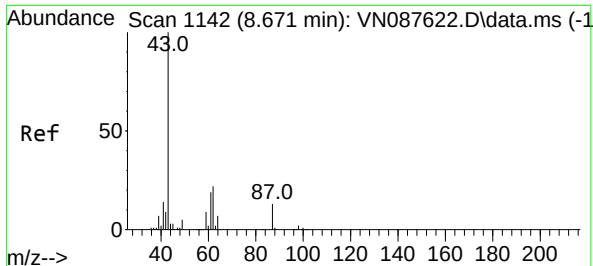
Delta R.T. -0.141 min

Lab File: VN087827.D

Acq: 15 Sep 2025 11:32

Tgt Ion:	117	Resp:	22543
Ion	Ratio	Lower	Upper
117	100		
119	3.8	79.0	118.6#
121	0.0	25.0	37.6#

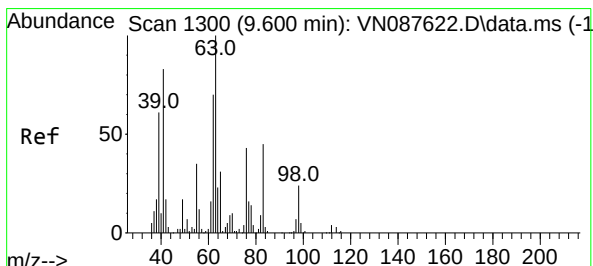
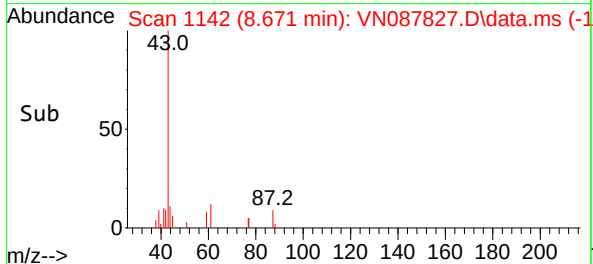
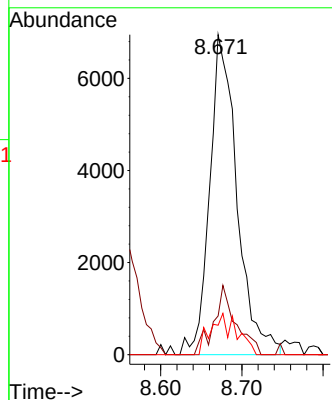
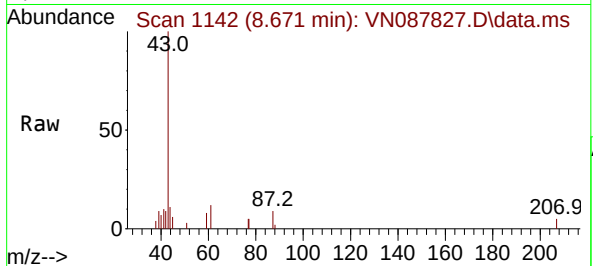




#43
Isopropyl Acetate
Concen: 1.495 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

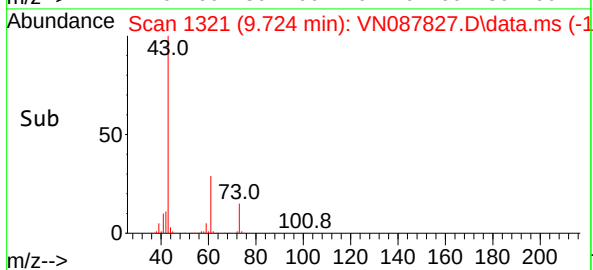
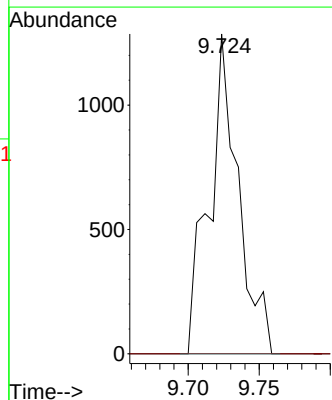
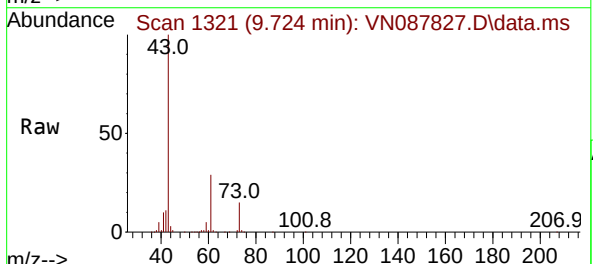
Instrument :
MSVOA_N
ClientSampleId :
PB169678TB

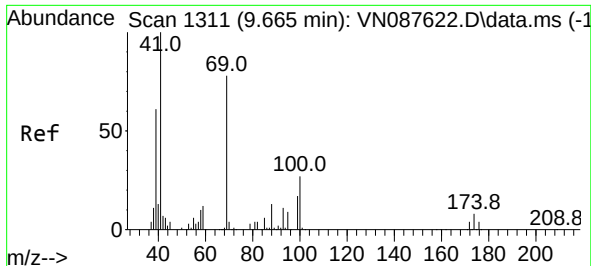
Tgt Ion: 43 Resp: 16289
Ion Ratio Lower Upper
43 100
61 17.6 18.8 28.2#
87 12.3 9.6 14.4



#45
1,2-Dichloropropane
Concen: 0.444 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.123 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

Tgt Ion: 63 Resp: 1834
Ion Ratio Lower Upper
63 100
65 0.0 25.0 37.4#

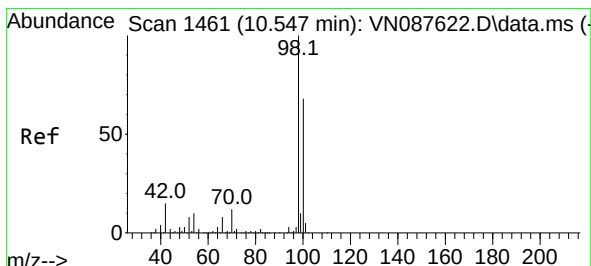
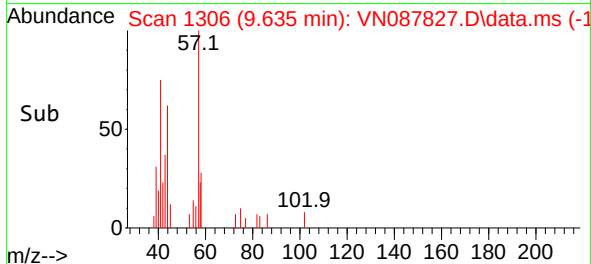
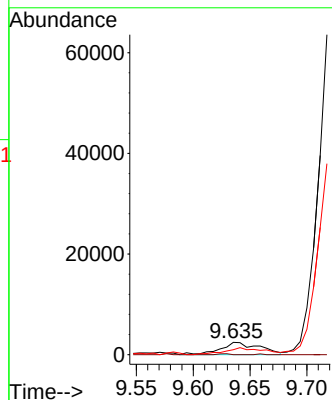
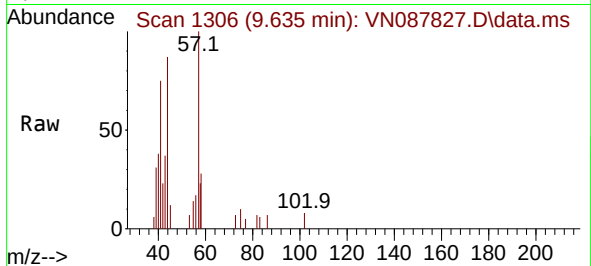




#48
Methyl methacrylate
Concen: 1.148 ug/l
RT: 9.635 min Scan# 11
Delta R.T. -0.030 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

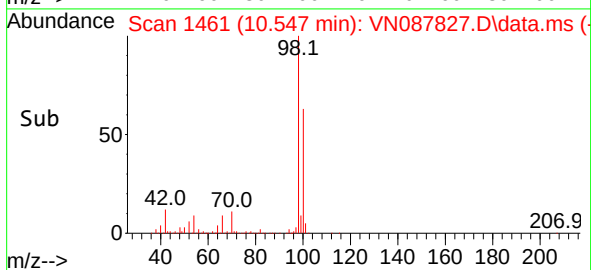
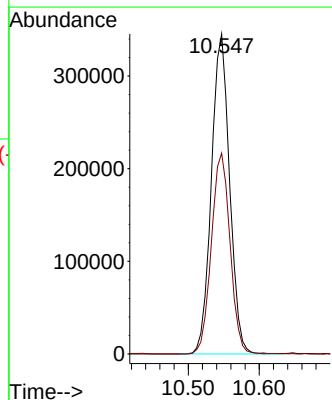
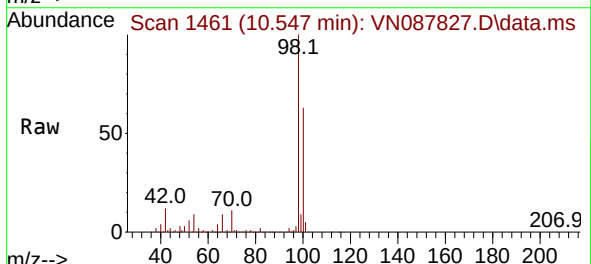
Instrument :
MSVOA_N
ClientSampleId :
PB169678TB

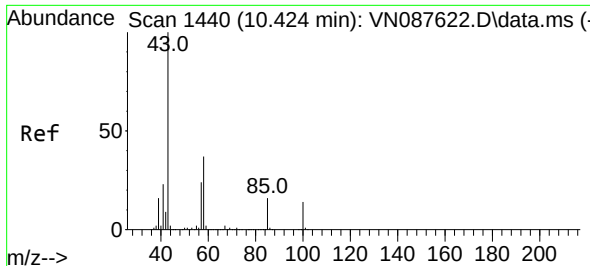
Tgt Ion: 41 Resp: 5916
Ion Ratio Lower Upper
41 100
69 2.2 62.7 94.1#
39 55.2 52.9 79.3



#50
Toluene-d8
Concen: 49.319 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

Tgt Ion: 98 Resp: 614315
Ion Ratio Lower Upper
98 100
100 64.3 52.8 79.2

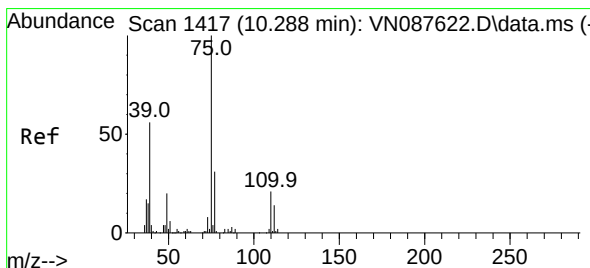
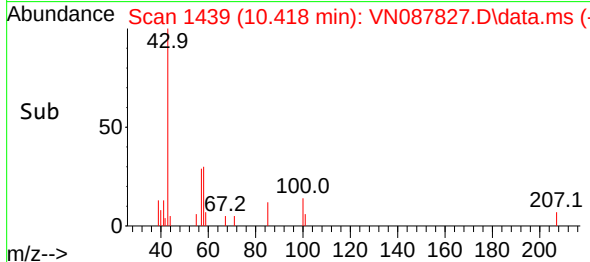
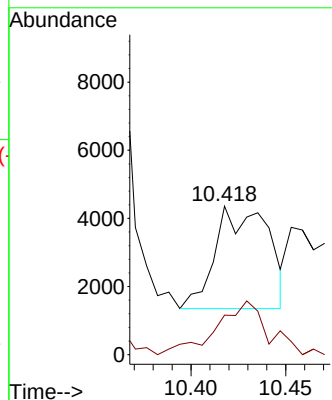
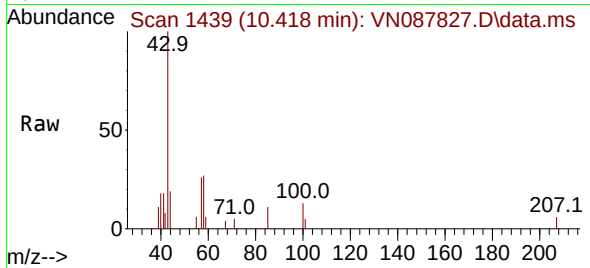




#51
4-Methyl-2-Pentanone
Concen: 0.886 ug/l
RT: 10.418 min Scan# 1439
Delta R.T. -0.006 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

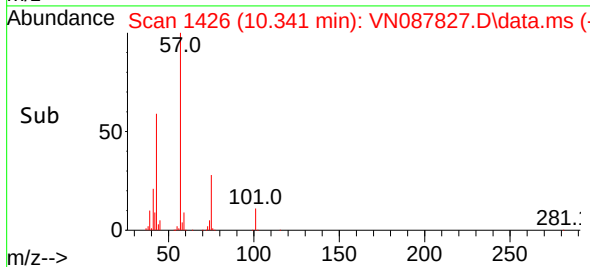
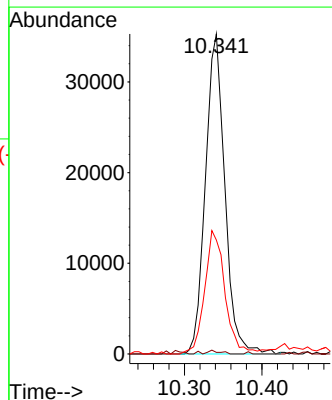
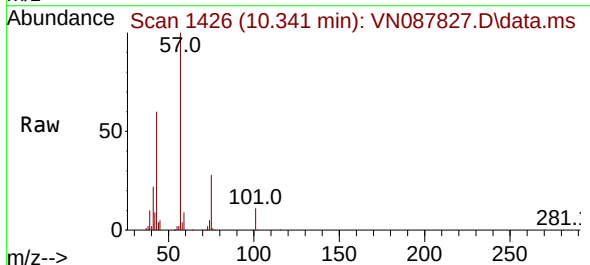
Instrument :
MSVOA_N
ClientSampleId :
PB169678TB

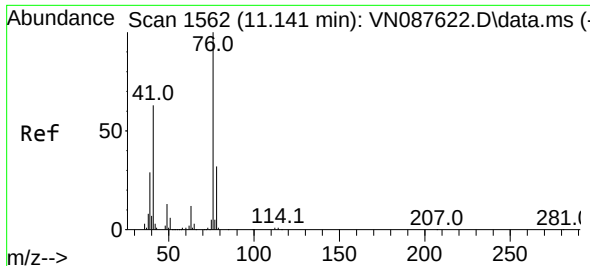
Tgt Ion: 43 Resp: 5821
Ion Ratio Lower Upper
43 100
58 51.5 29.6 44.4#



#54
cis-1,3-Dichloropropene
Concen: 9.498 ug/l
RT: 10.341 min Scan# 1426
Delta R.T. 0.053 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

Tgt Ion: 75 Resp: 61452
Ion Ratio Lower Upper
75 100
77 0.5 24.6 37.0#
39 35.6 45.2 67.8#

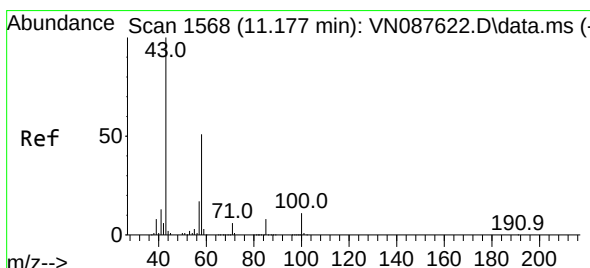
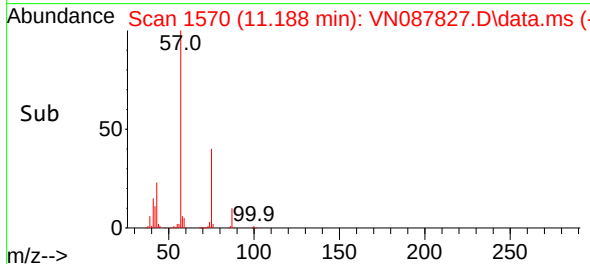
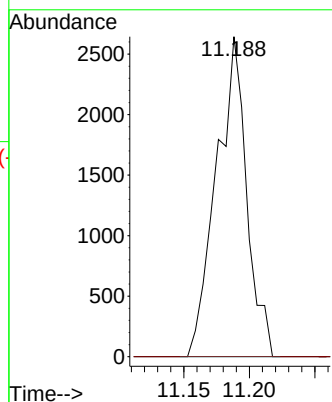
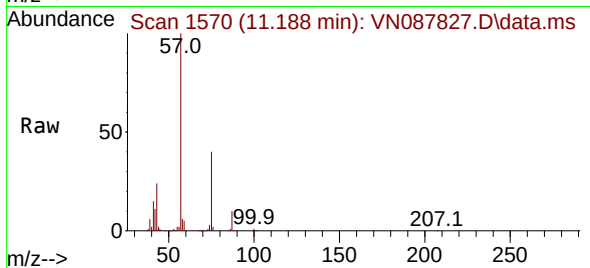




#57
1,3-Dichloropropane
Concen: 0.639 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. 0.047 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

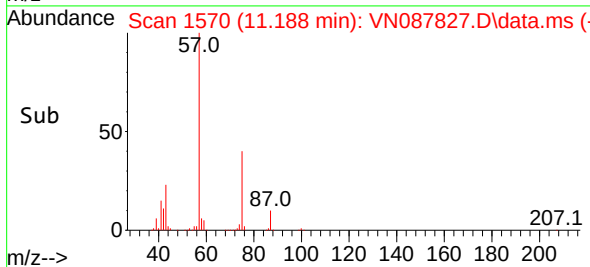
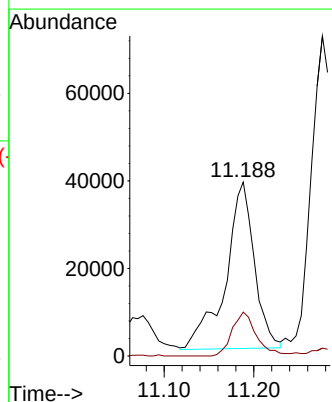
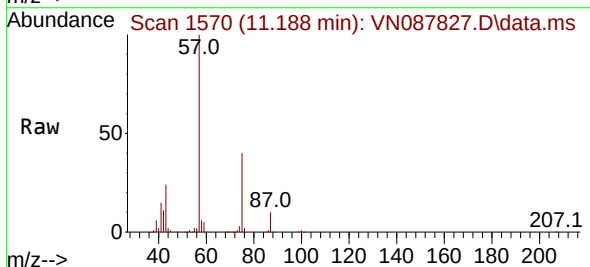
Instrument :
MSVOA_N
ClientSampleId :
PB169678TB

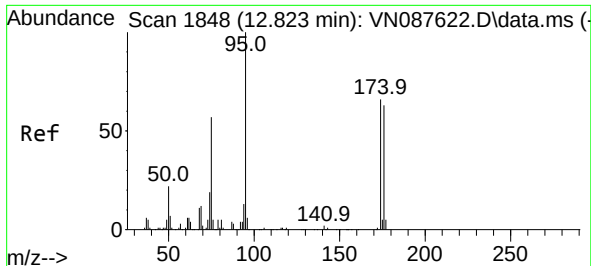
Tgt Ion: 76 Resp: 4247
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.4#



#59
2-Hexanone
Concen: 20.450 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. 0.012 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

Tgt Ion: 43 Resp: 84937
Ion Ratio Lower Upper
43 100
58 22.4 25.9 77.8#

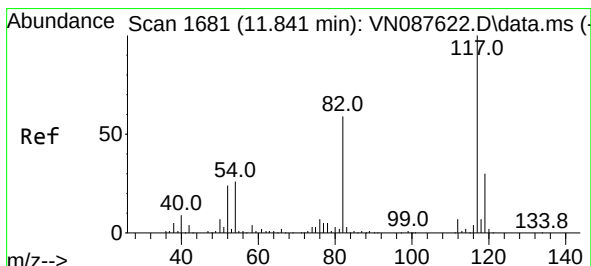
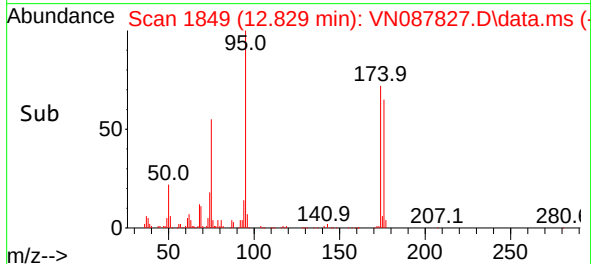
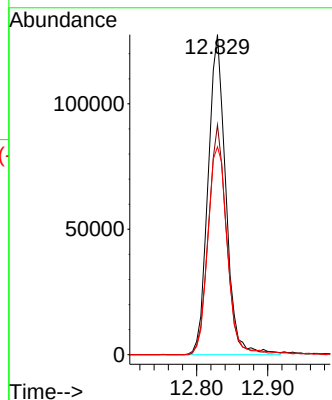
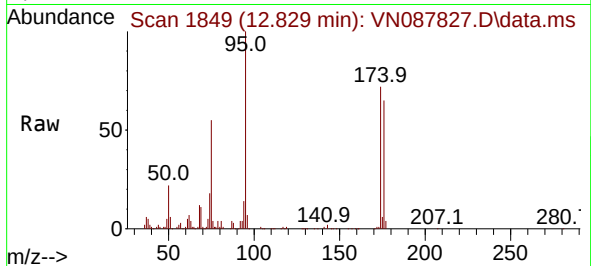




#62
4-Bromofluorobenzene
Concen: 49.943 ug/l
RT: 12.829 min Scan# 1848
Delta R.T. 0.006 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

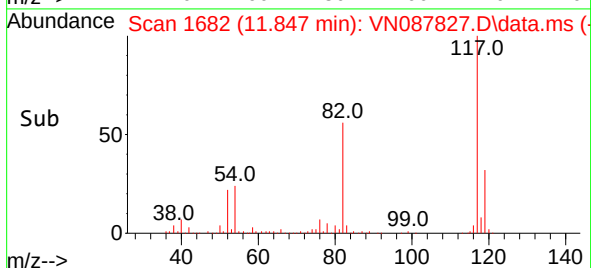
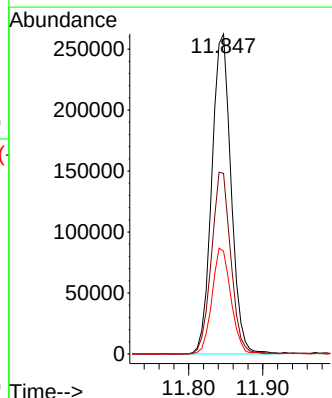
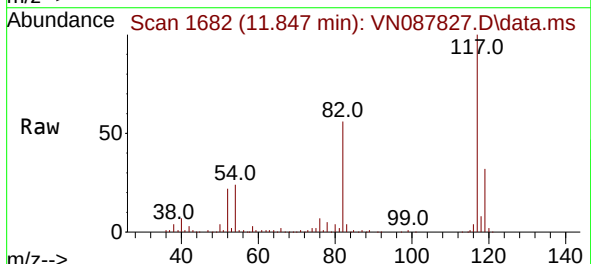
Instrument :
MSVOA_N
ClientSampleId :
PB169678TB

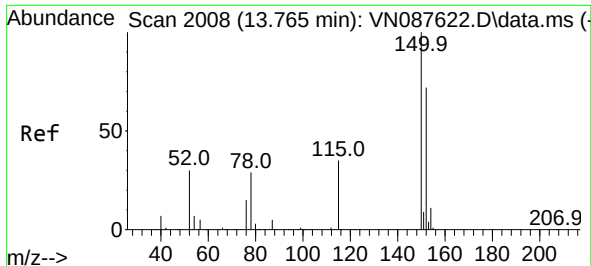
Tgt Ion: 95 Resp: 221236
Ion Ratio Lower Upper
95 100
174 72.7 0.0 138.4
176 71.4 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

Tgt Ion: 117 Resp: 473166
Ion Ratio Lower Upper
117 100
82 56.4 47.4 71.2
119 32.1 24.3 36.5

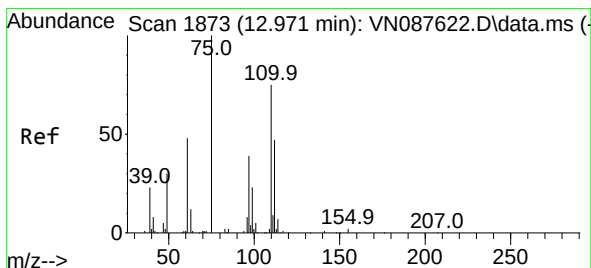
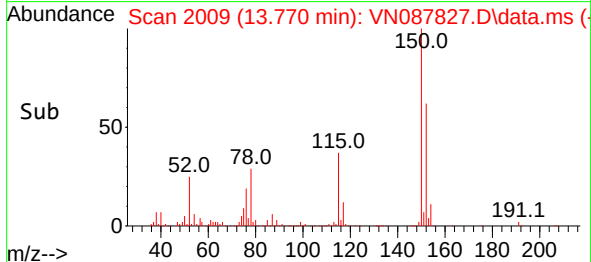
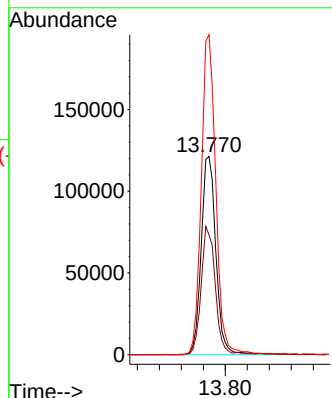
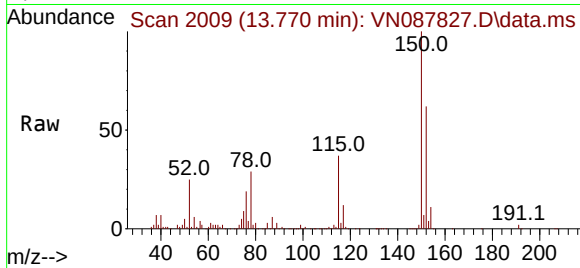




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VN087827.D
 Acq: 15 Sep 2025 11:32

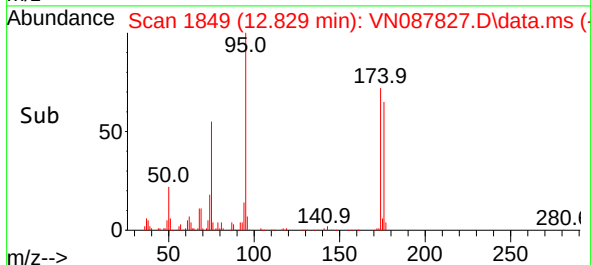
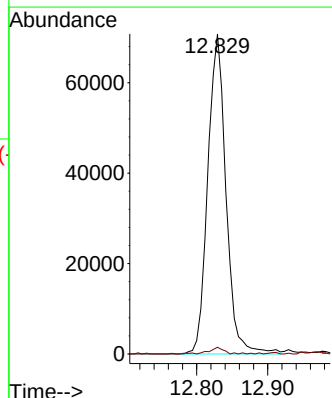
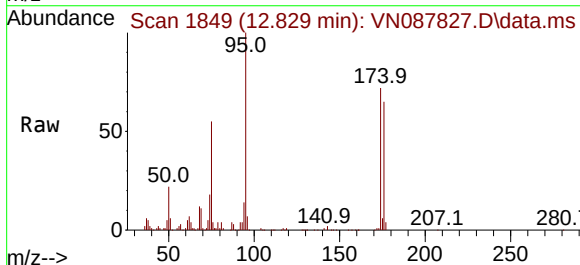
Instrument :
 MSVOA_N
 ClientSampleId :
 PB169678TB

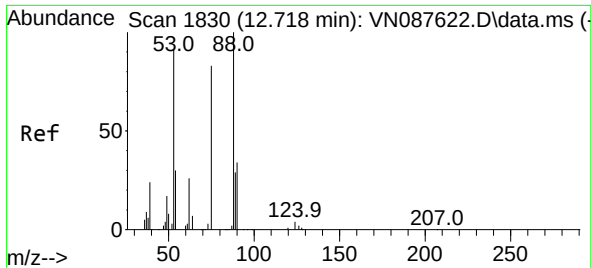
Tgt Ion:152 Resp: 225391
 Ion Ratio Lower Upper
 152 100
 115 62.4 32.3 96.8
 150 158.5 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 23.902 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN087827.D
 Acq: 15 Sep 2025 11:32

Tgt Ion: 75 Resp: 126335
 Ion Ratio Lower Upper
 75 100
 77 1.6 89.1 267.4#





#81
trans-1,4-Dichloro-2-butene
Concen: 63.278 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN087827.D
Acq: 15 Sep 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
PB169678TB

Tgt Ion: 75 Resp: 126335
Ion Ratio Lower Upper
75 100
53 0.1 101.8 152.6#
89 0.0 35.6 53.4#

