

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081325\
 Data File : VN087537.D
 Acq On : 13 Aug 2025 15:58
 Operator : JC\MD
 Sample : Q2827-04RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 14 04:02:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

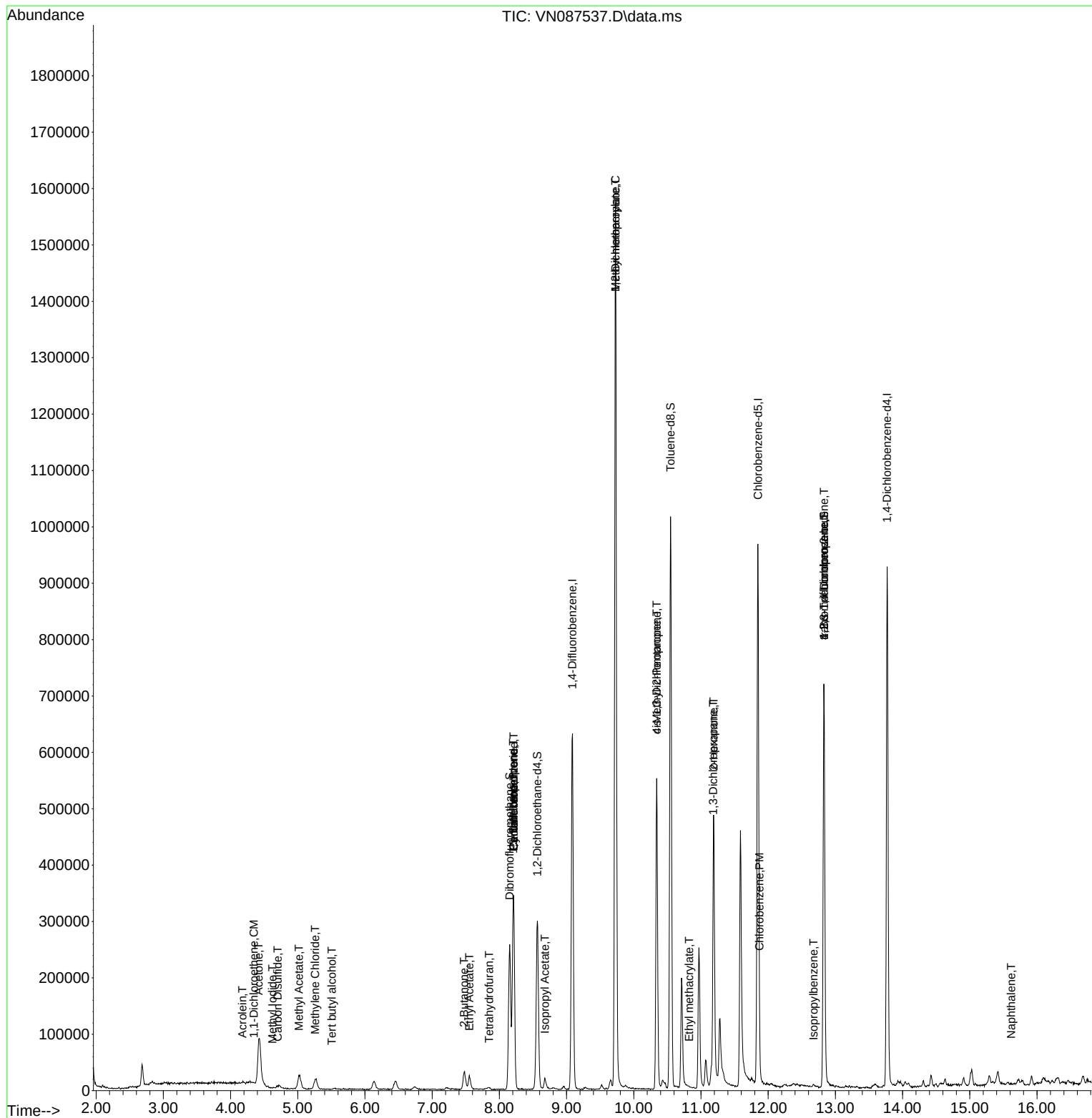
Internal Standards						
1) Pentafluorobenzene	8.212	168	230998	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	9.088	114	521802	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	504489	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	231489	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	255832	65.271	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery	= 130.540%#		
35) Dibromofluoromethane	8.153	113	179656	49.913	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery	= 99.820%		
50) Toluene-d8	10.547	98	671937	52.334	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery	= 104.660%		
62) 4-Bromofluorobenzene	12.829	95	254838	53.723	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery	= 107.440%		
Target Compounds						
						Qvalue
10) Methyl Iodide	4.624	142	83	5.662	ug/l	# 40
11) Tert butyl alcohol	5.506	59	306	0.411	ug/l	# 72
12) 1,1-Dichloroethene	4.347	96	561	0.213	ug/l	# 1
13) Acrolein	4.177	56	890	1.490	ug/l	# 69
16) Acetone	4.418	43	161095	87.658	ug/l	97
17) Carbon Disulfide	4.700	76	4425	0.566	ug/l	96
18) Methyl Acetate	5.018	43	54145	11.727	ug/l	98
20) Methylene Chloride	5.259	84	13861	3.871	ug/l	87
25) 2-Butanone	7.477	43	51108	17.999	ug/l	97
29) Tetrahydrofuran	7.847	42	2784	1.509	ug/l	# 67
31) Cyclohexane	8.212	56	7300	1.515	ug/l	# 2
36) 1,1-Dichloropropene	8.206	75	23171	4.873	ug/l	# 51
37) Ethyl Acetate	7.553	43	35753	5.206	ug/l	99
38) Carbon Tetrachloride	8.212	117	29199	5.574	ug/l	# 13
43) Isopropyl Acetate	8.677	43	21856	2.050	ug/l	# 91
45) 1,2-Dichloropropane	9.729	63	1725	0.442	ug/l	# 41
48) Methyl methacrylate	9.729	41	155314	32.359	ug/l	# 46
51) 4-Methyl-2-Pentanone	10.341	43	221305	32.819	ug/l	# 46
54) cis-1,3-Dichloropropene	10.341	75	94896	15.413	ug/l	# 71
56) Ethyl methacrylate	10.823	69	163	0.661	ug/l	# 24
57) 1,3-Dichloropropane	11.182	76	5513	0.843	ug/l	# 42
59) 2-Hexanone	11.188	43	104245	23.301	ug/l	# 45
65) Chlorobenzene	11.870	112	6623	0.585	ug/l	# 72
73) Isopropylbenzene	12.676	105	3124	0.214	ug/l	88
76) 1,2,3-Trichloropropane	12.829	75	145919	28.110	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.829	75	145919	76.914	ug/l	# 8
95) Naphthalene	15.617	128	3001	0.205	ug/l	98

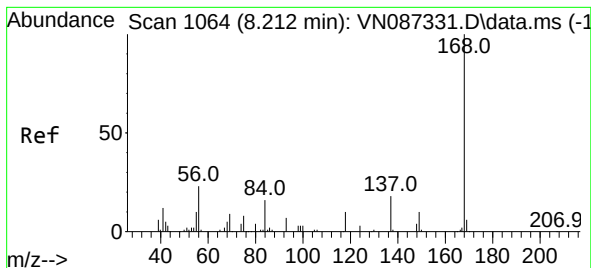
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_N
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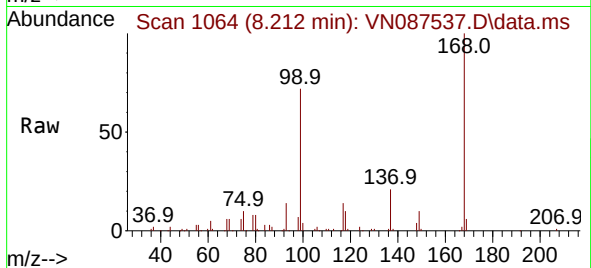
Quant Time: Aug 14 04:02:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration



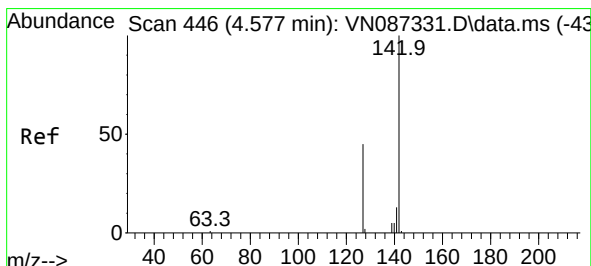
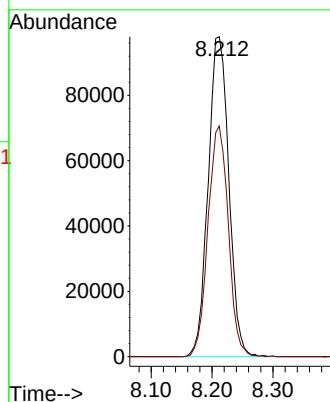
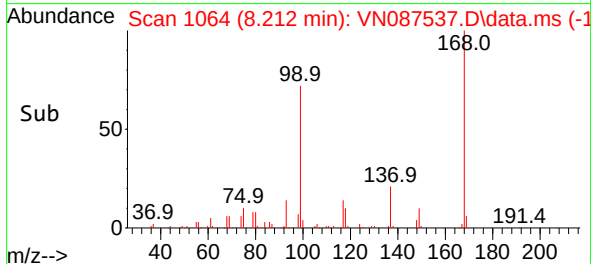


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :

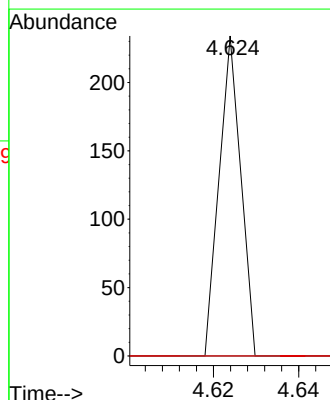
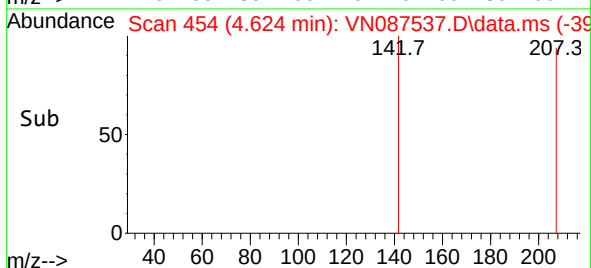
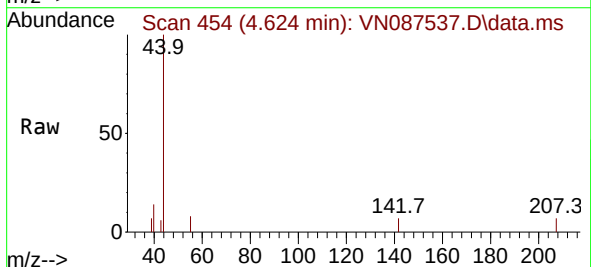


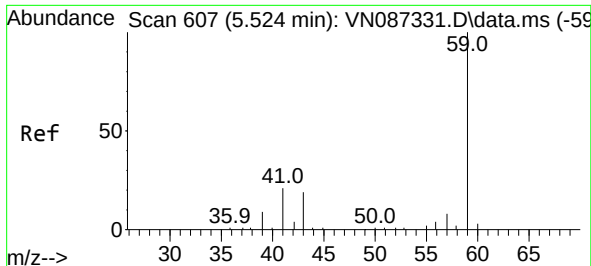
Tgt Ion:168 Resp: 230998
Ion Ratio Lower Upper
168 100
99 72.1 47.9 71.9#



#10
Methyl Iodide
Concen: 5.662 ug/l
RT: 4.624 min Scan# 454
Delta R.T. 0.047 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58

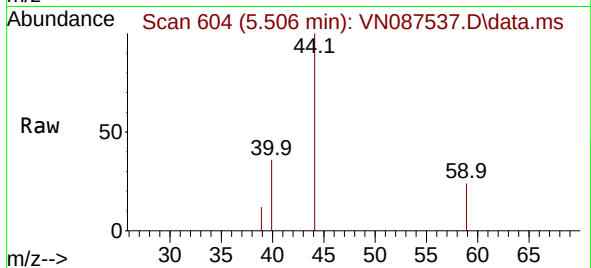
Tgt Ion:142 Resp: 83
Ion Ratio Lower Upper
142 100
127 0.0 35.7 53.5#
141 0.0 10.4 15.6#



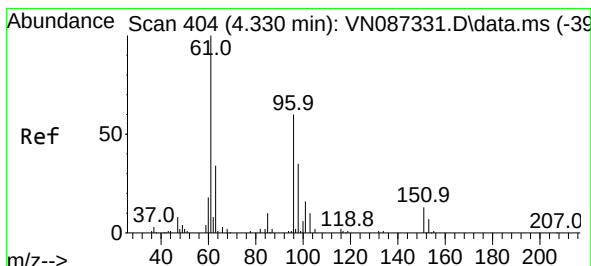
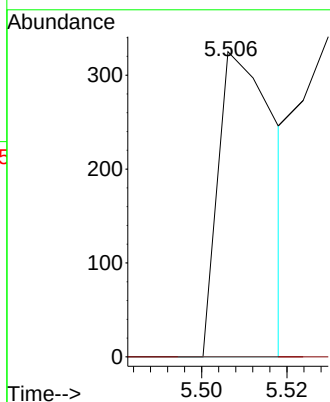
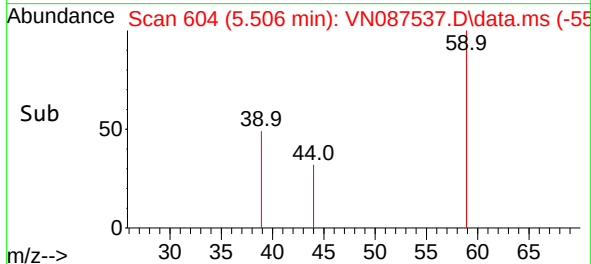


#11
Tert butyl alcohol
Concen: 0.411 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.018 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58

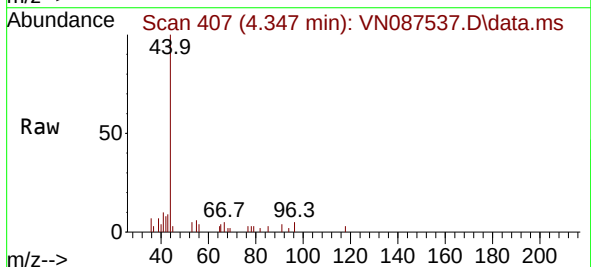
Instrument :
MSVOA_N
ClientSampleId :



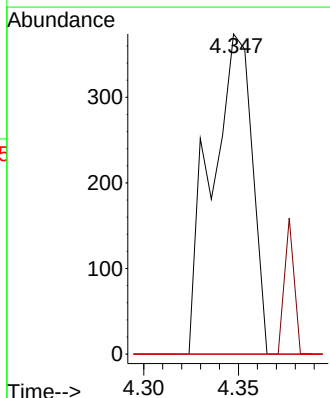
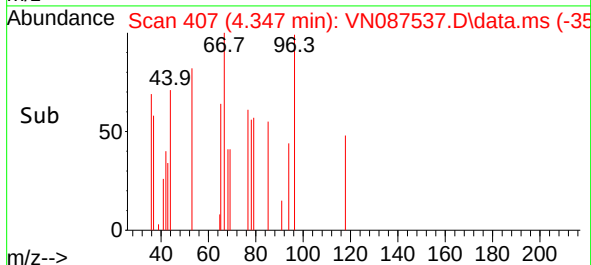
Tgt Ion: 59 Resp: 306
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

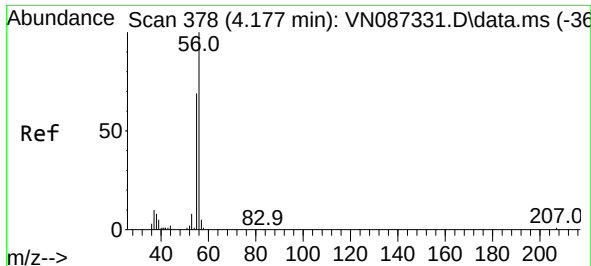


#12
1,1-Dichloroethene
Concen: 0.213 ug/l
RT: 4.347 min Scan# 407
Delta R.T. 0.018 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58



Tgt Ion: 96 Resp: 561
Ion Ratio Lower Upper
96 100
61 0.0 132.3 198.5#
98 0.0 46.8 70.2#

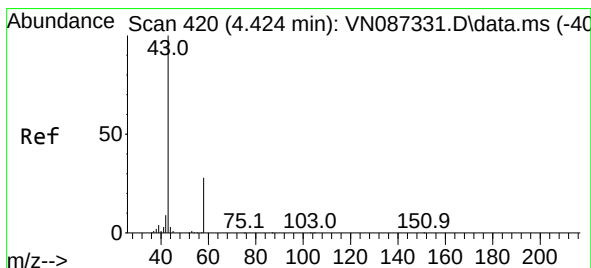
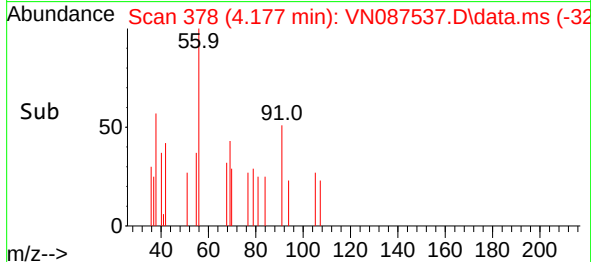
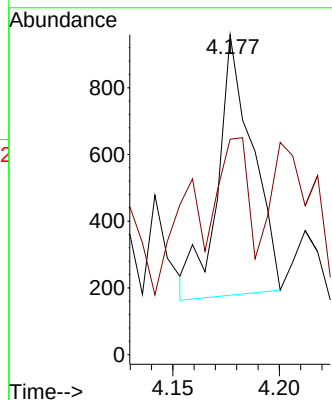
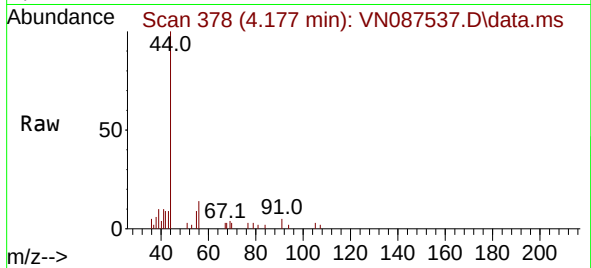




#13
Acrolein
Concen: 1.490 ug/l
RT: 4.177 min Scan# 31
Delta R.T. 0.000 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58

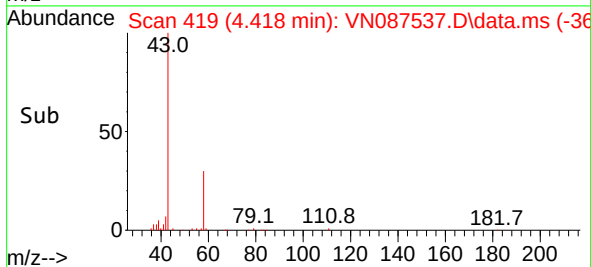
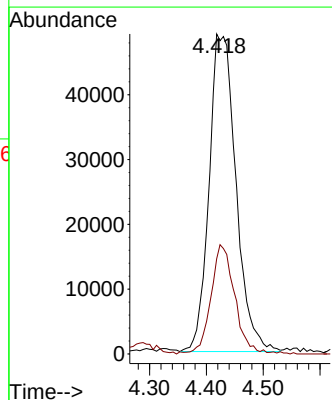
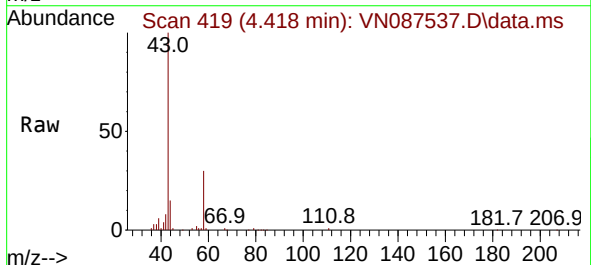
Instrument :
MSVOA_N
ClientSampleId :

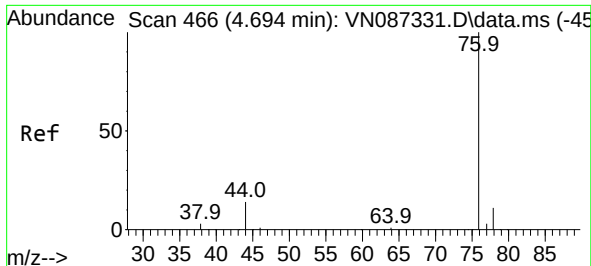
Tgt Ion: 56 Resp: 890
Ion Ratio Lower Upper
56 100
55 45.2 56.2 84.4#



#16
Acetone
Concen: 87.658 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58

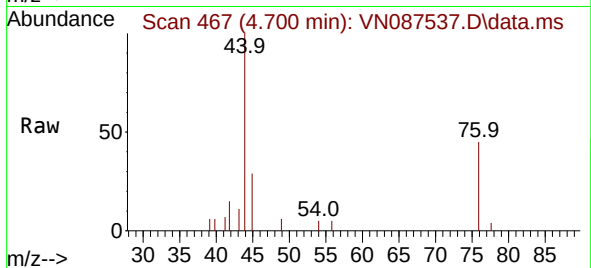
Tgt Ion: 43 Resp: 161095
Ion Ratio Lower Upper
43 100
58 29.4 22.3 33.5



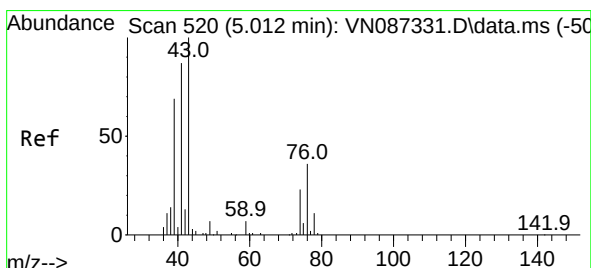
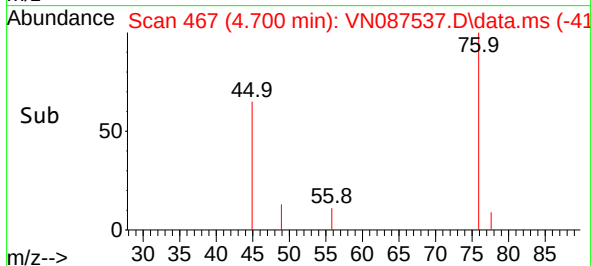
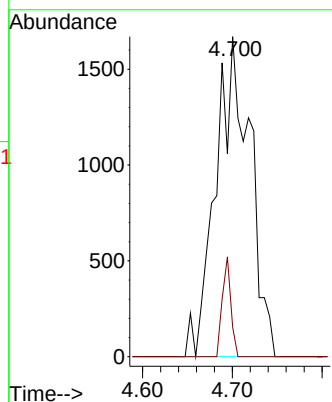


#17
Carbon Disulfide
Concen: 0.566 ug/l
RT: 4.700 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :

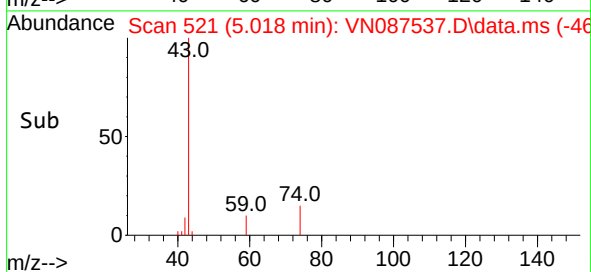
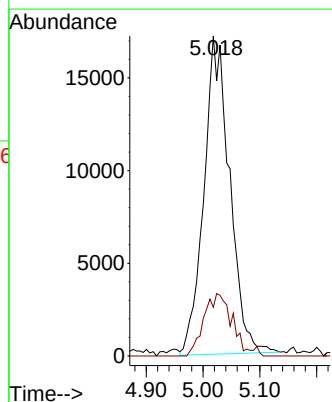
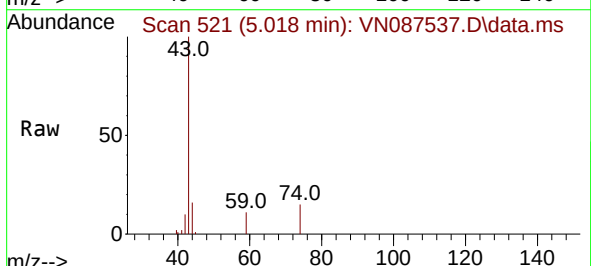


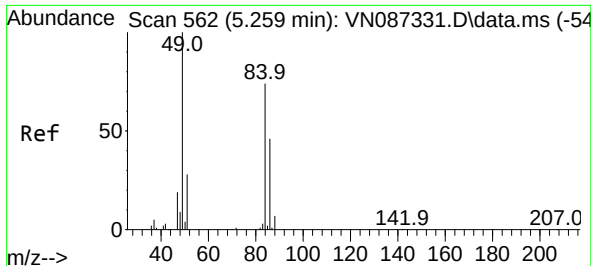
Tgt Ion: 76 Resp: 4425
Ion Ratio Lower Upper
76 100
78 9.2 8.6 13.0



#18
Methyl Acetate
Concen: 11.727 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58

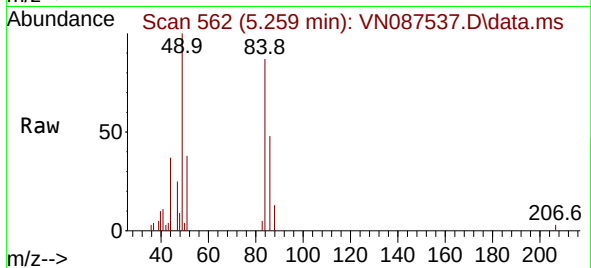
Tgt Ion: 43 Resp: 54145
Ion Ratio Lower Upper
43 100
74 21.2 17.8 26.6



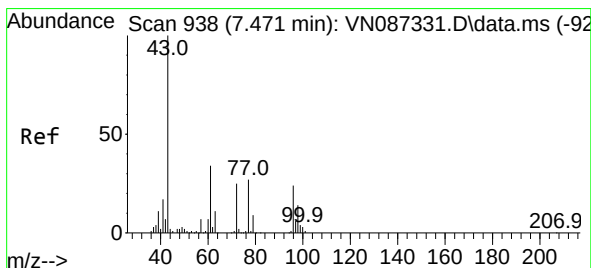
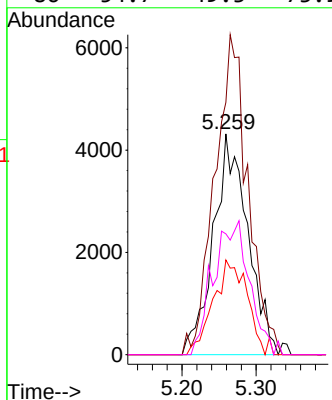
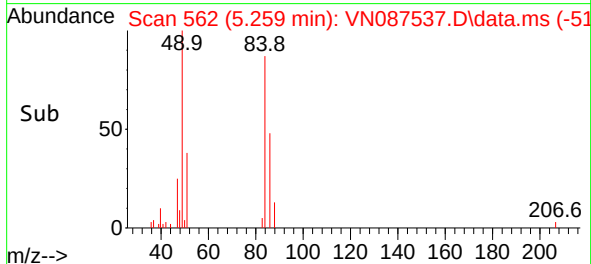


#20
Methylene Chloride
Concen: 3.871 ug/l
RT: 5.259 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58

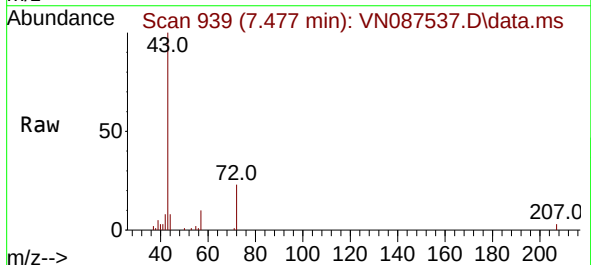
Instrument :
MSVOA_N
ClientSampleId :



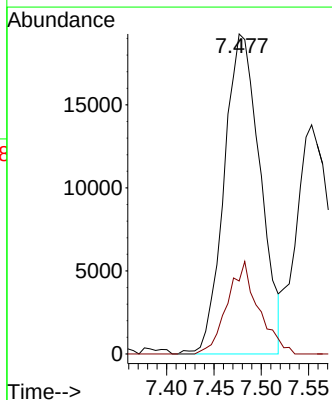
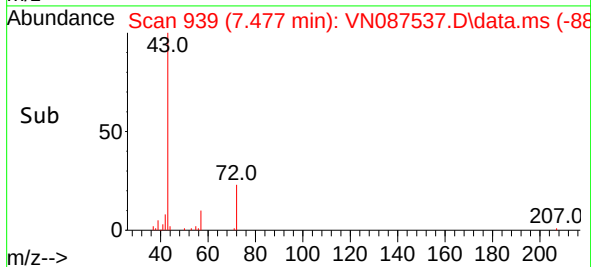
Tgt Ion:	84	Resp:	13861
Ion	Ratio	Lower	Upper
84	100		
49	114.3	107.5	161.3
51	42.9	30.2	45.2
86	54.7	49.3	73.9

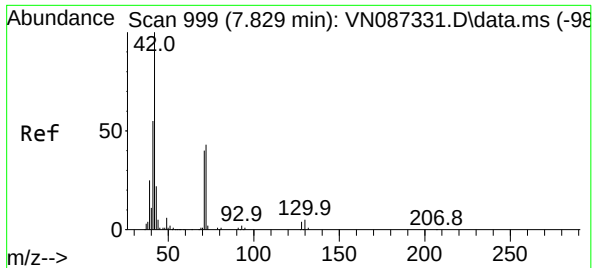


#25
2-Butanone
Concen: 17.999 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.006 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58



Tgt Ion:	43	Resp:	51108
Ion	Ratio	Lower	Upper
43	100		
72	22.8	19.6	29.4





#29

Tetrahydrofuran

Concen: 1.509 ug/l

RT: 7.847 min Scan# 1002

Delta R.T. 0.018 min

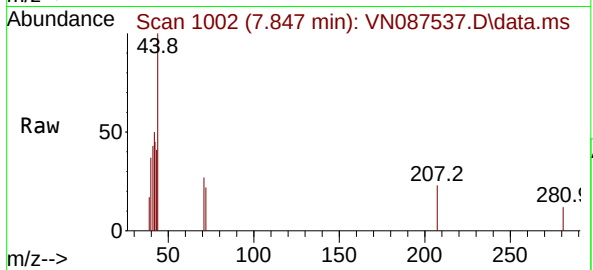
Lab File: VN087537.D

Acq: 13 Aug 2025 15:58

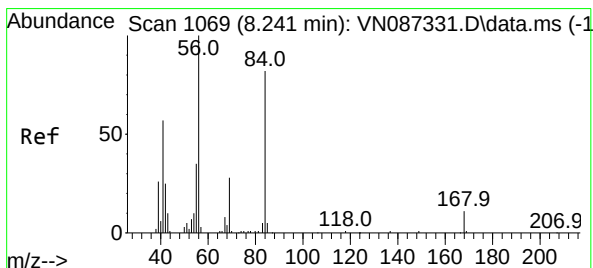
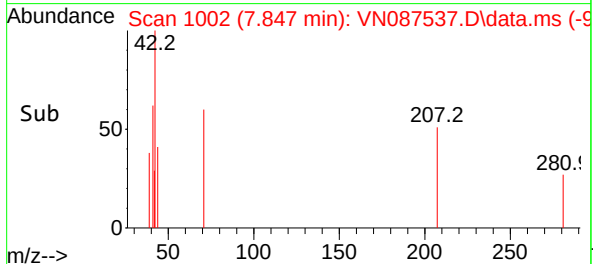
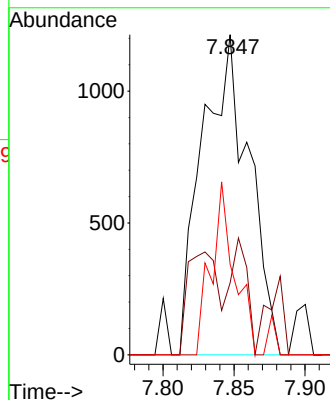
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	2784
Ion	Ratio	Lower	Upper
42	100		
72	13.3	33.4	50.0#
71	26.8	31.2	46.8#



#31

Cyclohexane

Concen: 1.515 ug/l

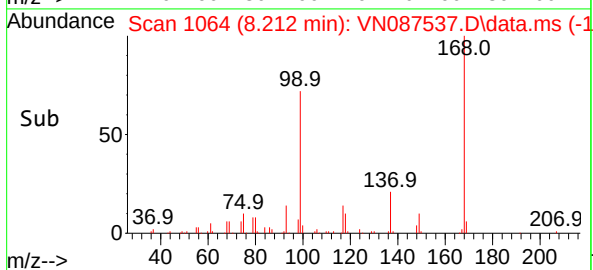
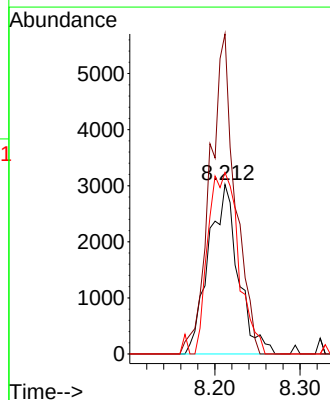
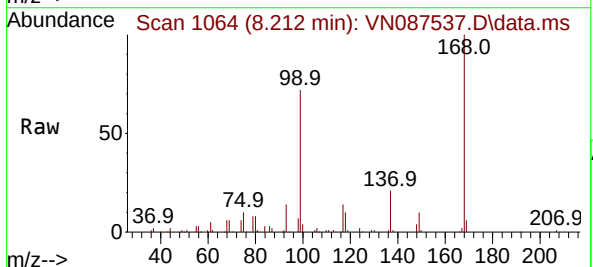
RT: 8.212 min Scan# 1064

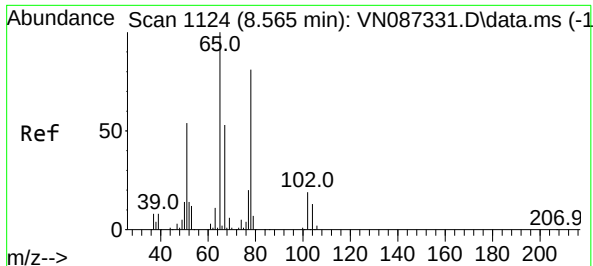
Delta R.T. -0.029 min

Lab File: VN087537.D

Acq: 13 Aug 2025 15:58

Tgt Ion:	56	Resp:	7300
Ion	Ratio	Lower	Upper
56	100		
69	188.8	22.7	34.1#
84	107.1	65.8	98.6#





#33

1,2-Dichloroethane-d4

Concen: 65.271 ug/l

RT: 8.565 min Scan# 1124

Delta R.T. 0.000 min

Lab File: VN087537.D

Acq: 13 Aug 2025 15:58

Instrument :

MSVOA_N

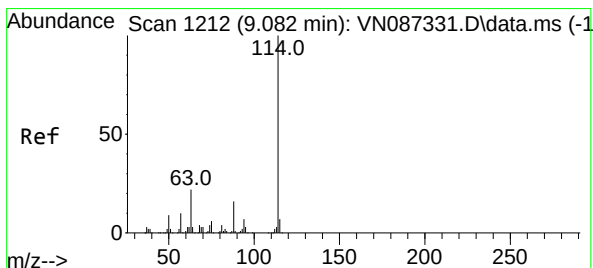
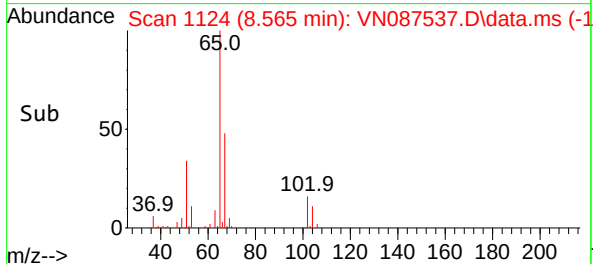
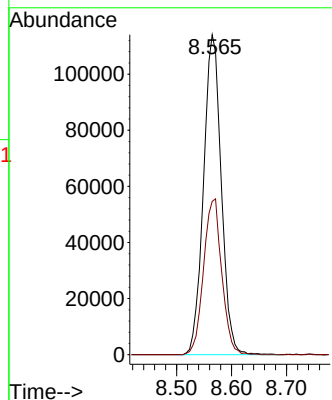
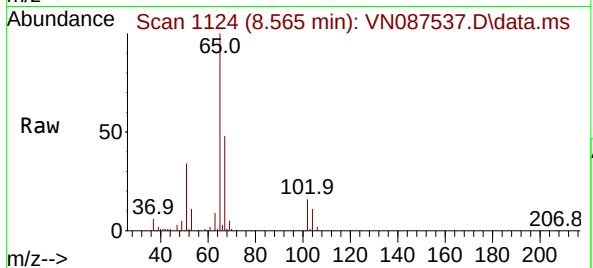
ClientSampleId :

Tgt Ion: 65 Resp: 255832

Ion Ratio Lower Upper

65 100

67 49.9 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.088 min Scan# 1213

Delta R.T. 0.006 min

Lab File: VN087537.D

Acq: 13 Aug 2025 15:58

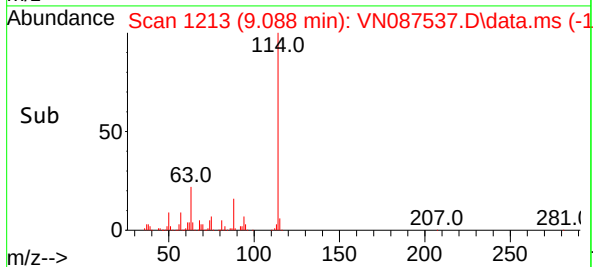
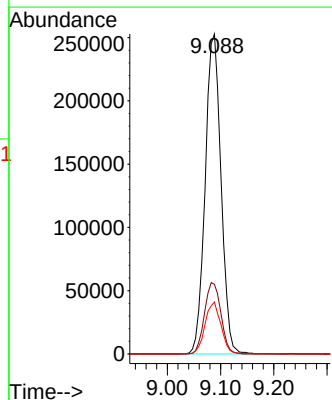
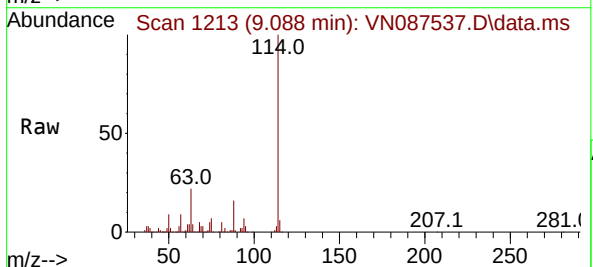
Tgt Ion: 114 Resp: 521802

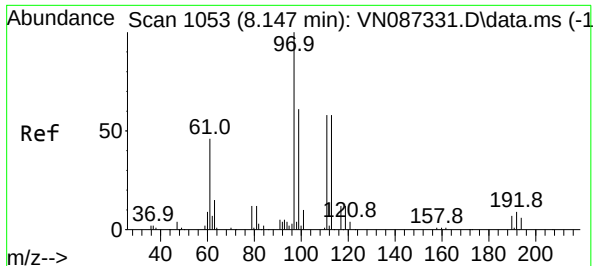
Ion Ratio Lower Upper

114 100

63 21.7 0.0 44.6

88 16.3 0.0 32.8





#35

Dibromofluoromethane

Concen: 49.913 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087537.D

Acq: 13 Aug 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

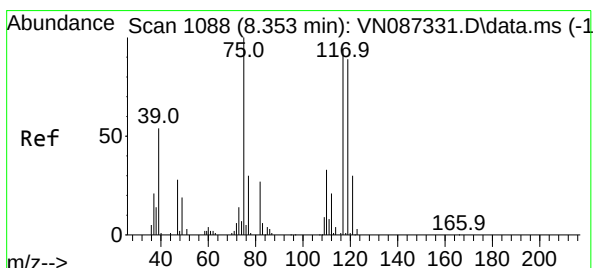
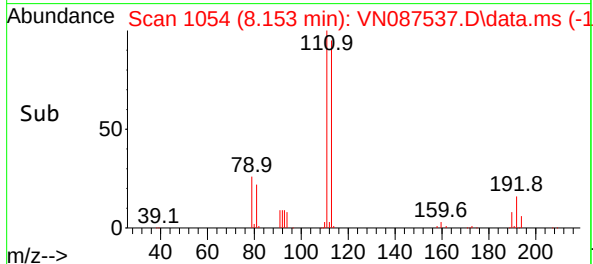
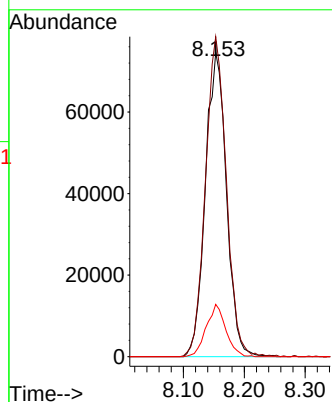
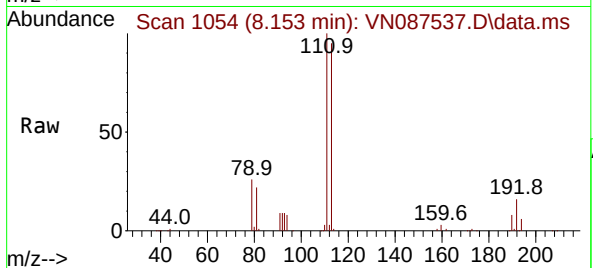
Tgt Ion:113 Resp: 179656

Ion Ratio Lower Upper

113 100

111 104.4 82.5 123.7

192 16.0 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.873 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087537.D

Acq: 13 Aug 2025 15:58

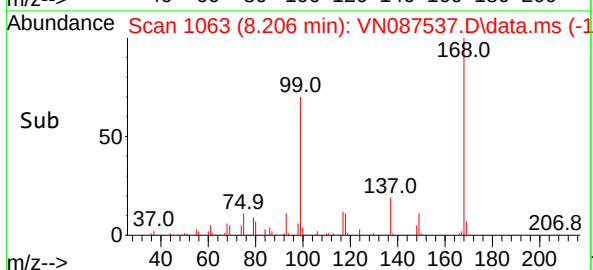
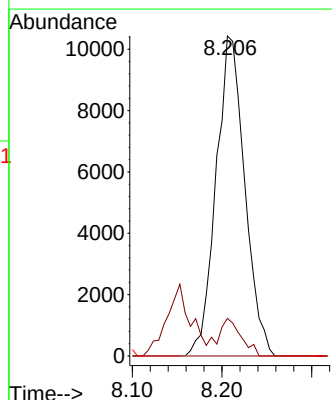
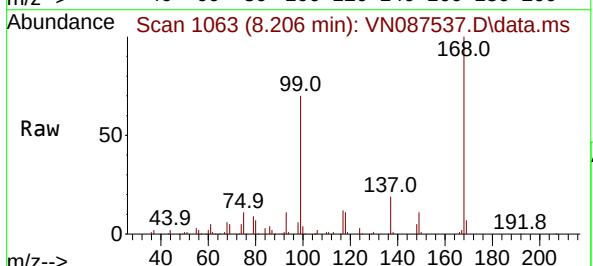
Tgt Ion: 75 Resp: 23171

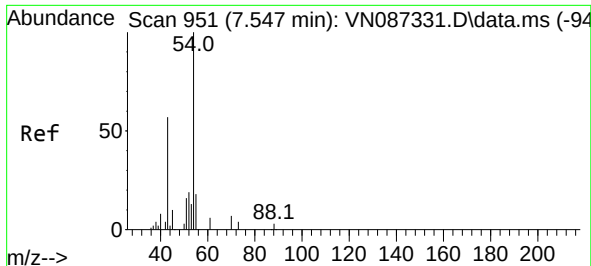
Ion Ratio Lower Upper

75 100

110 9.4 16.7 50.1#

77 0.0 25.2 37.8#

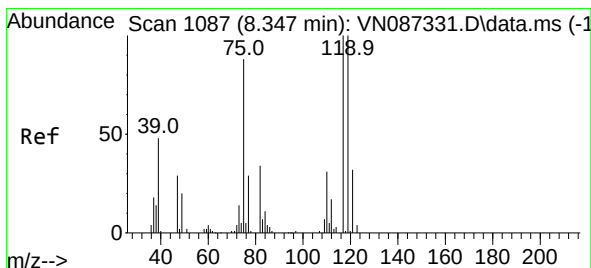
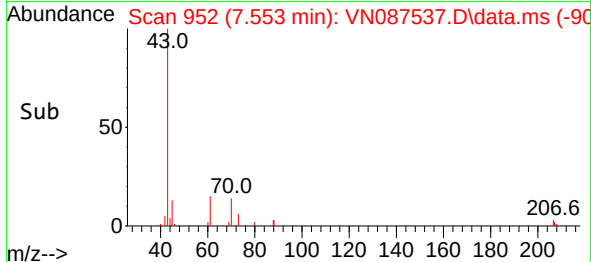
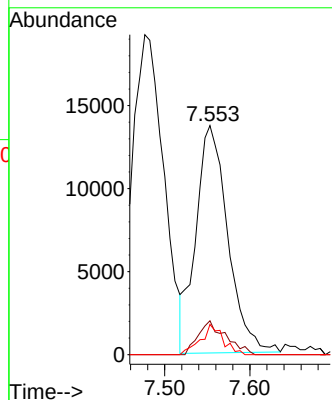
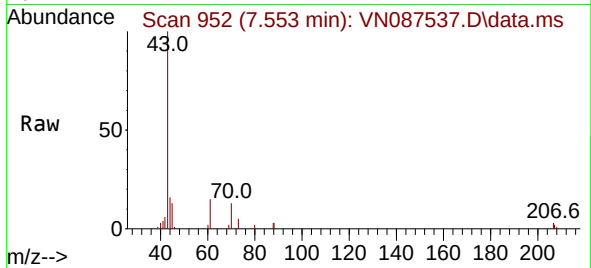




#37
Ethyl Acetate
Concen: 5.206 ug/l
RT: 7.553 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58

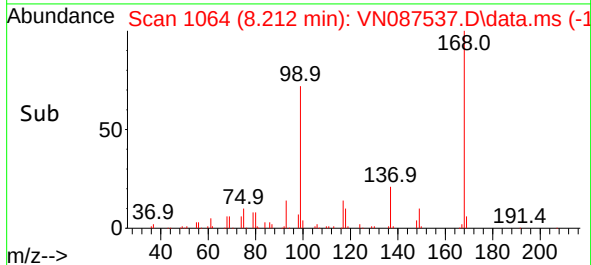
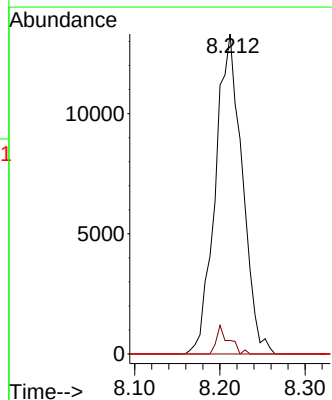
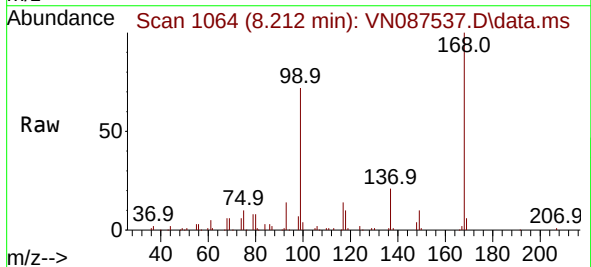
Instrument :
MSVOA_N
ClientSampleId :

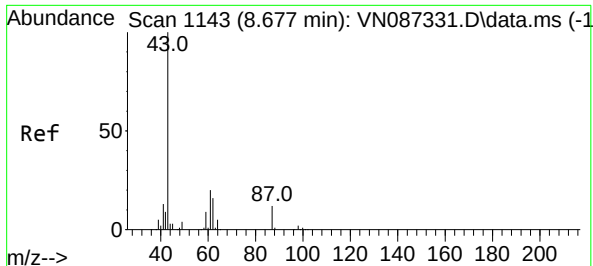
Tgt Ion: 43 Resp: 35753
Ion Ratio Lower Upper
43 100
61 12.9 10.9 16.3
70 9.4 7.4 11.0



#38
Carbon Tetrachloride
Concen: 5.574 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.135 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58

Tgt Ion: 117 Resp: 29199
Ion Ratio Lower Upper
117 100
119 4.2 80.2 120.2#
121 0.0 25.4 38.2#





#43

Isopropyl Acetate

Concen: 2.050 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. -0.000 min

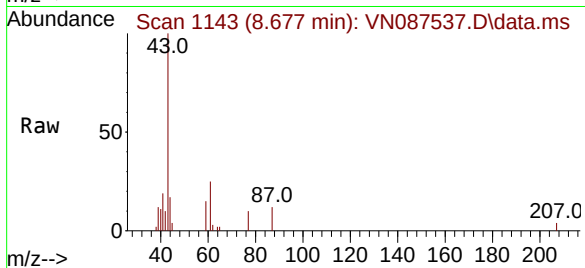
Lab File: VN087537.D

Acq: 13 Aug 2025 15:58

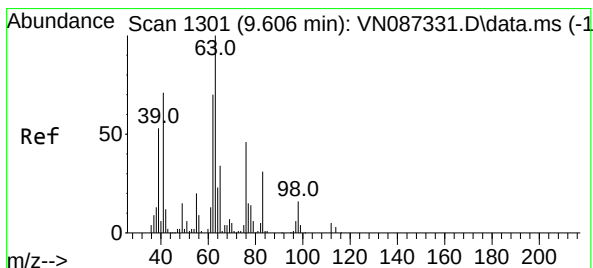
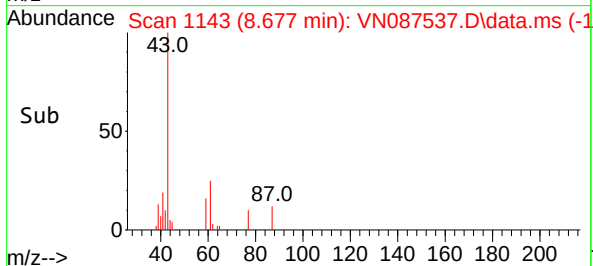
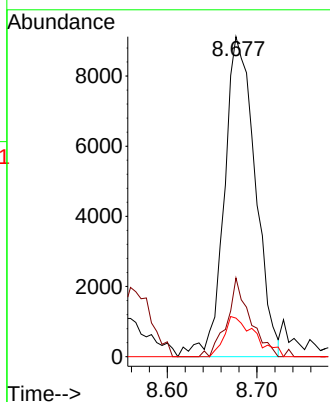
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	21856
Ion Ratio	100	Lower	Upper
61	18.3	19.8	29.8#
87	12.4	9.8	14.6



#45

1,2-Dichloropropane

Concen: 0.442 ug/l

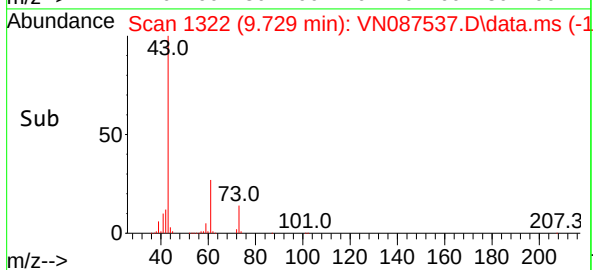
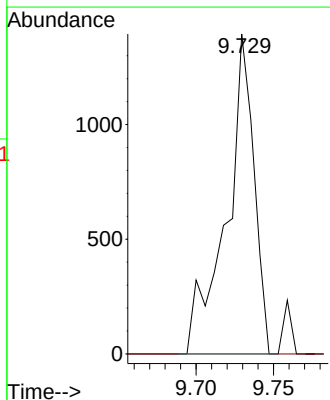
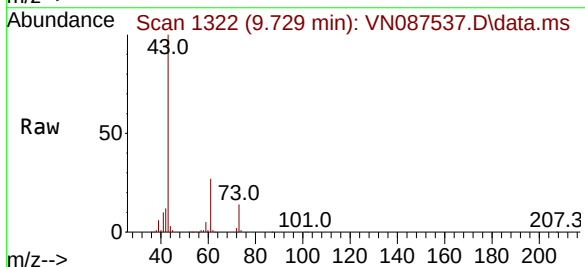
RT: 9.729 min Scan# 1322

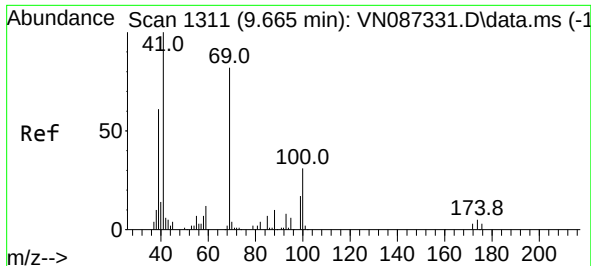
Delta R.T. 0.123 min

Lab File: VN087537.D

Acq: 13 Aug 2025 15:58

Tgt Ion:	63	Resp:	1725
Ion Ratio	100	Lower	Upper
65	0.0	27.0	40.4#





#48

Methyl methacrylate

Concen: 32.359 ug/l

RT: 9.729 min Scan# 1

Delta R.T. 0.065 min

Lab File: VN087537.D

Acq: 13 Aug 2025 15:58

Instrument :

MSVOA_N

ClientSampleId :

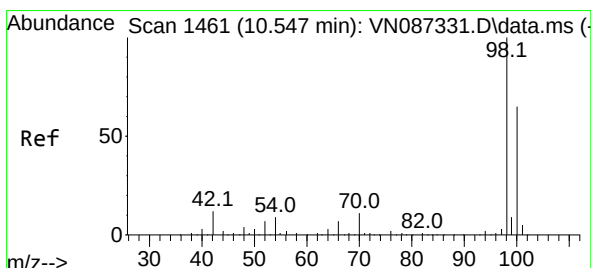
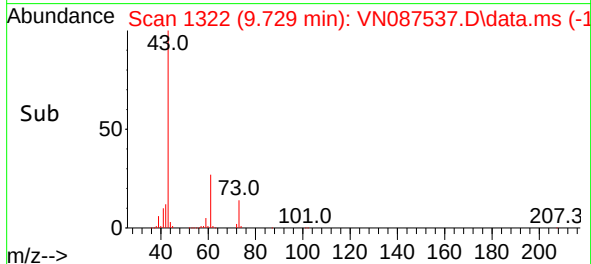
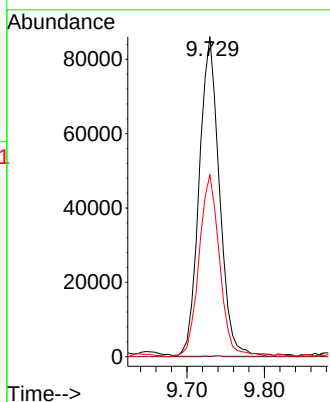
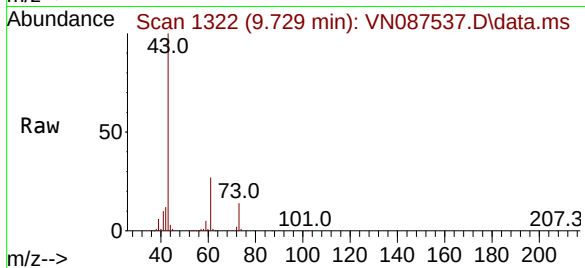
Tgt Ion: 41 Resp: 155314

Ion Ratio Lower Upper

41 100

69 0.1 64.1 96.1#

39 58.2 45.5 68.3



#50

Toluene-d8

Concen: 52.334 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN087537.D

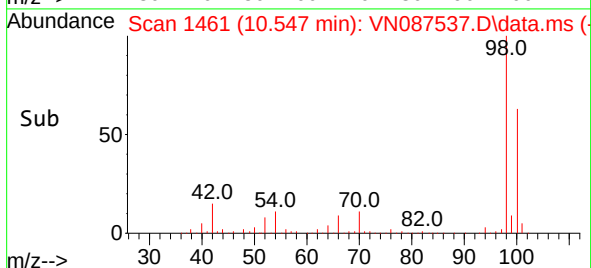
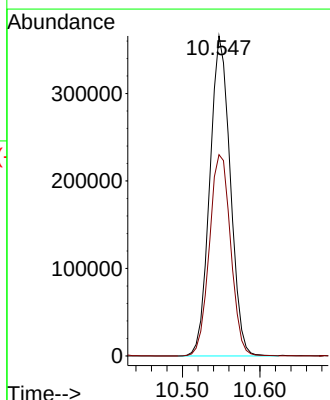
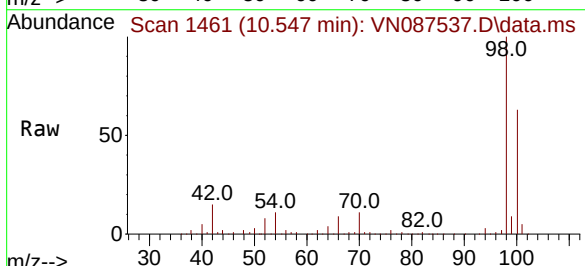
Acq: 13 Aug 2025 15:58

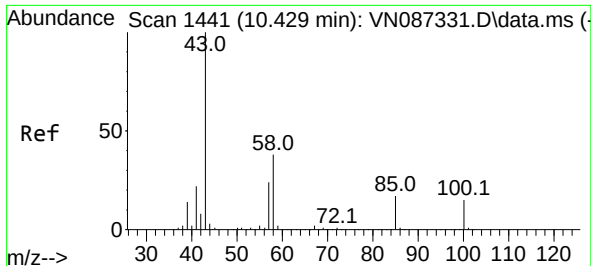
Tgt Ion: 98 Resp: 671937

Ion Ratio Lower Upper

98 100

100 65.4 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 32.819 ug/l

RT: 10.341 min Scan# 14

Delta R.T. -0.088 min

Lab File: VN087537.D

Acq: 13 Aug 2025 15:58

Instrument :

MSVOA_N

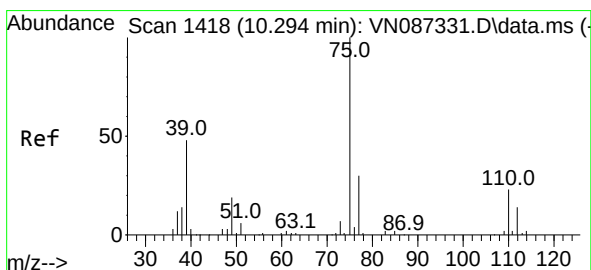
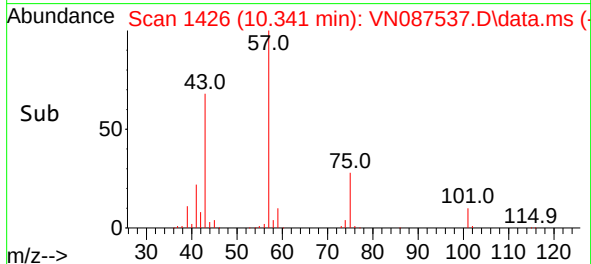
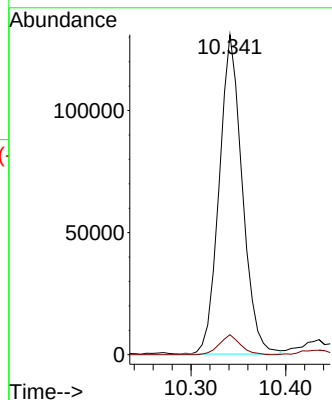
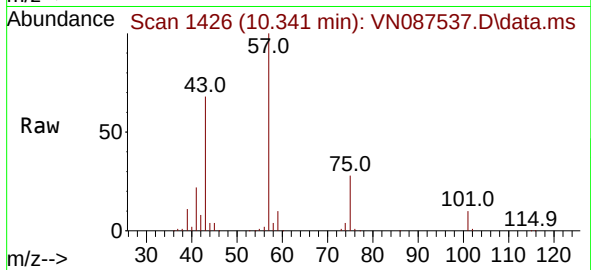
ClientSampleId :

Tgt Ion: 43 Resp: 221305

Ion Ratio Lower Upper

43 100

58 5.7 30.8 46.2#



#54

cis-1,3-Dichloropropene

Concen: 15.413 ug/l

RT: 10.341 min Scan# 1426

Delta R.T. 0.047 min

Lab File: VN087537.D

Acq: 13 Aug 2025 15:58

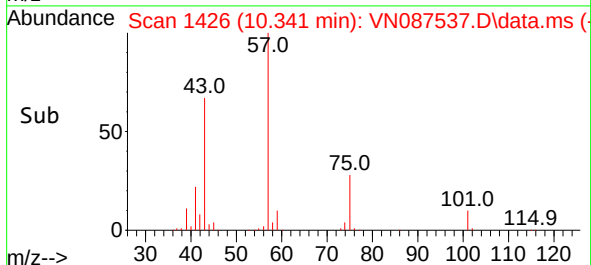
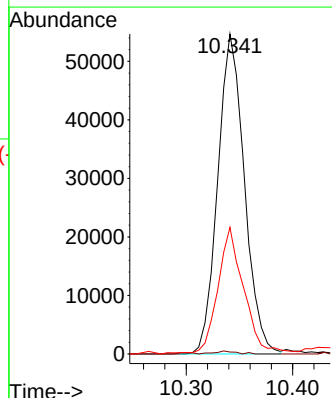
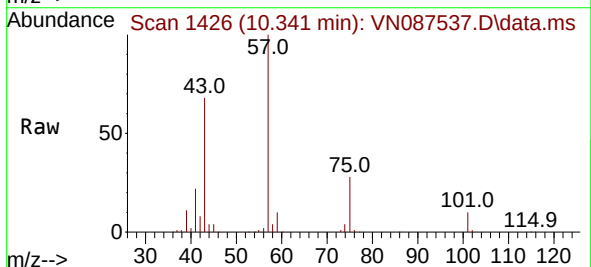
Tgt Ion: 75 Resp: 94896

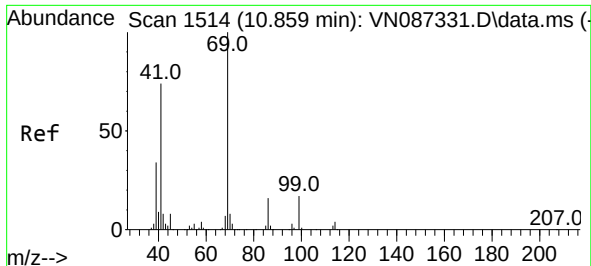
Ion Ratio Lower Upper

75 100

77 0.6 24.2 36.2#

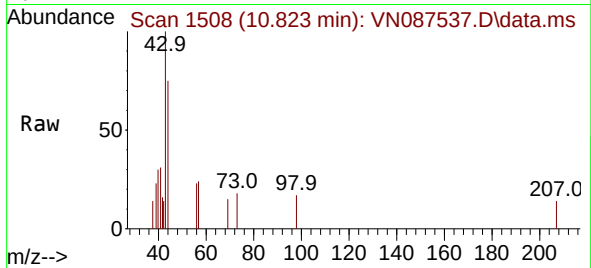
39 39.1 38.4 57.6



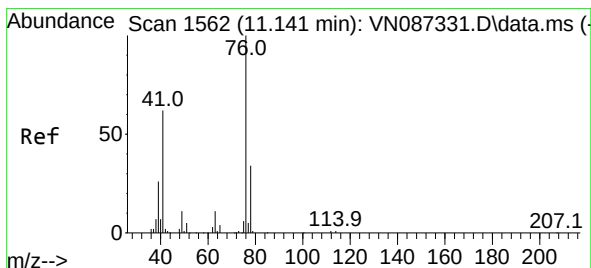
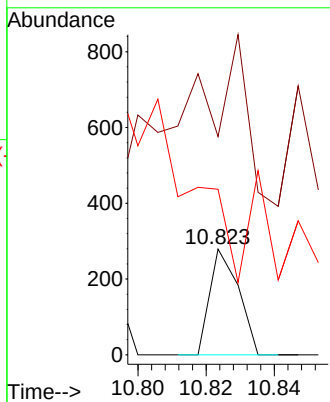
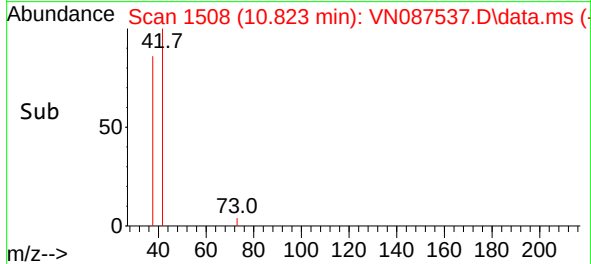


#56
Ethyl methacrylate
Concen: 0.661 ug/l
RT: 10.823 min Scan# 1508
Delta R.T. -0.036 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :

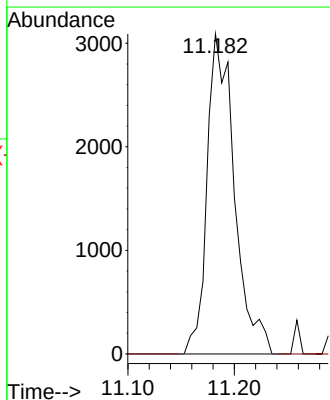
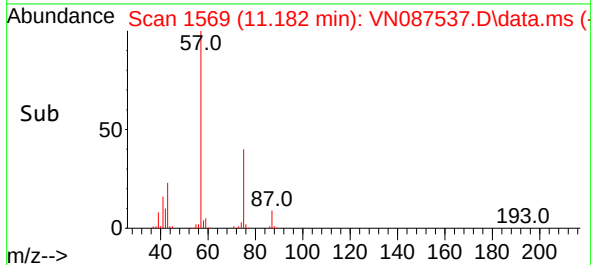
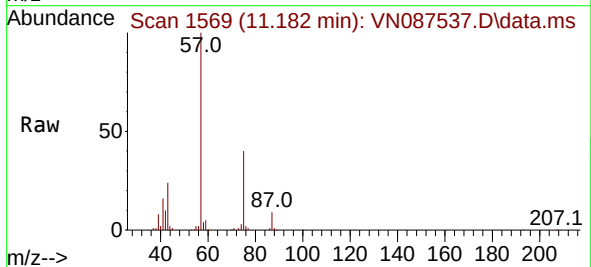


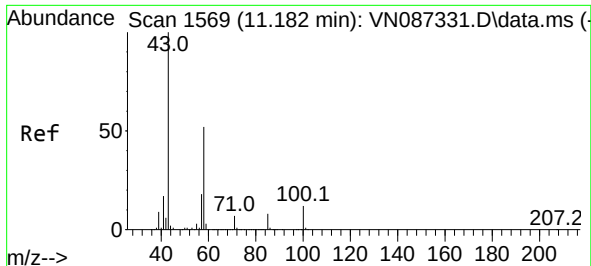
Tgt Ion: 69 Resp: 163
Ion Ratio Lower Upper
69 100
41 0.0 55.1 82.7#
39 0.0 27.9 41.9#



#57
1,3-Dichloropropane
Concen: 0.843 ug/l
RT: 11.182 min Scan# 1569
Delta R.T. 0.041 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58

Tgt Ion: 76 Resp: 5513
Ion Ratio Lower Upper
76 100
78 0.0 26.0 39.0#

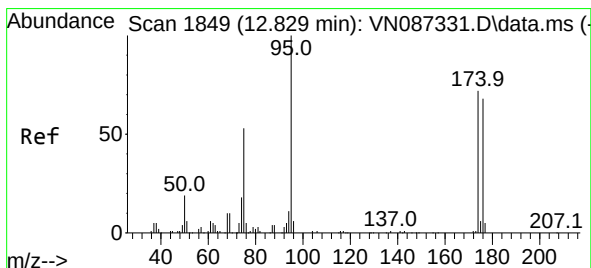
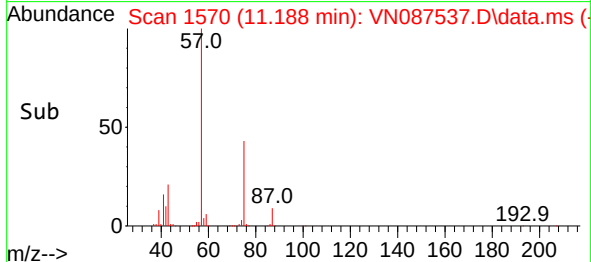
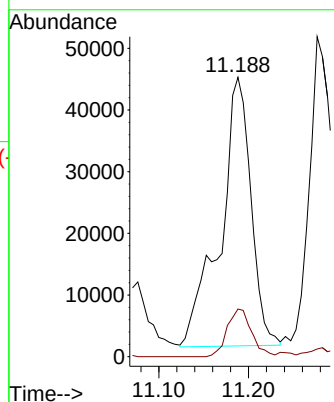
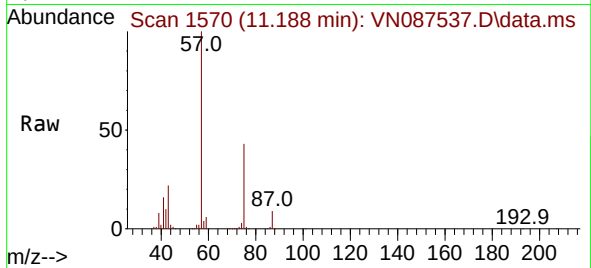




#59
2-Hexanone
Concen: 23.301 ug/l
RT: 11.188 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58

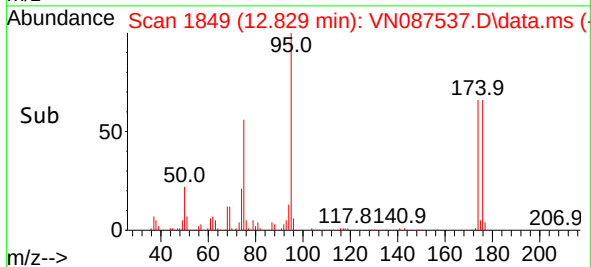
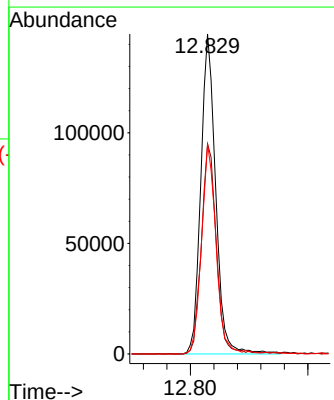
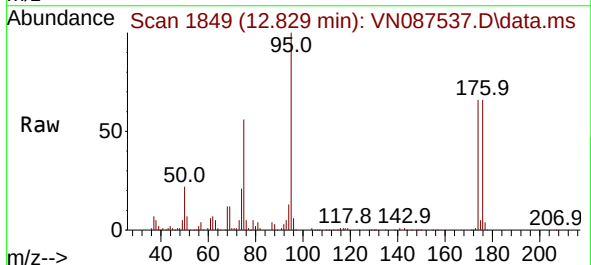
Instrument :
MSVOA_N
ClientSampleId :

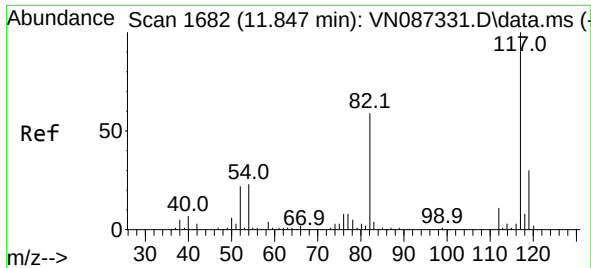
Tgt Ion: 43 Resp: 104245
Ion Ratio Lower Upper
43 100
58 14.0 26.7 80.0#



#62
4-Bromofluorobenzene
Concen: 53.723 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58

Tgt Ion: 95 Resp: 254838
Ion Ratio Lower Upper
95 100
174 65.9 0.0 149.4
176 63.6 0.0 141.2

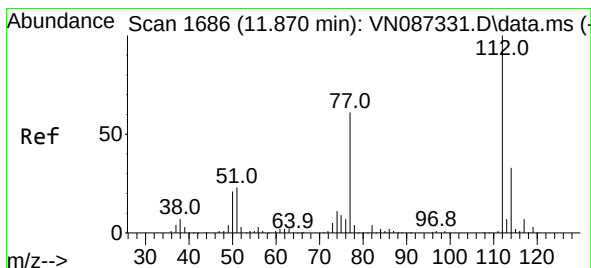
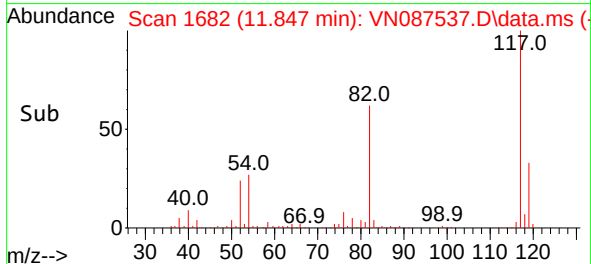
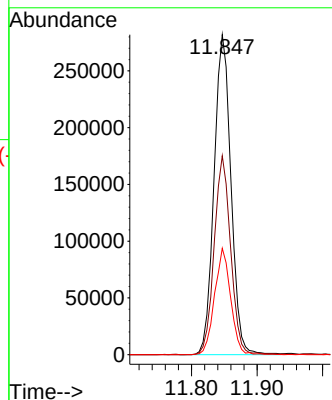
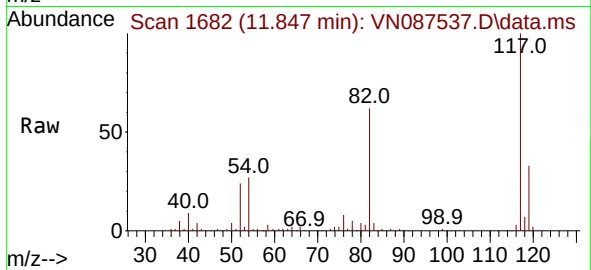




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58

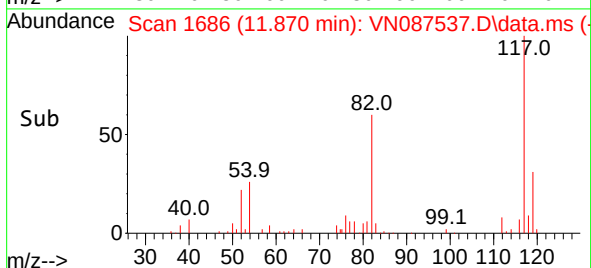
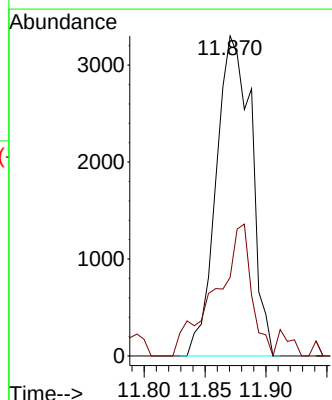
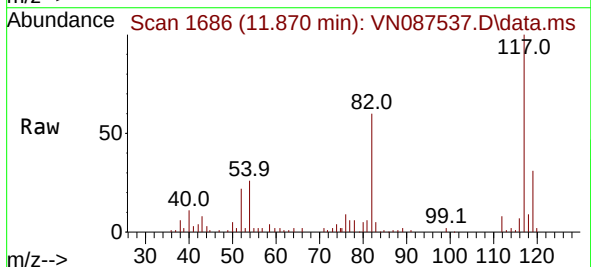
Instrument :
MSVOA_N
ClientSampleId :

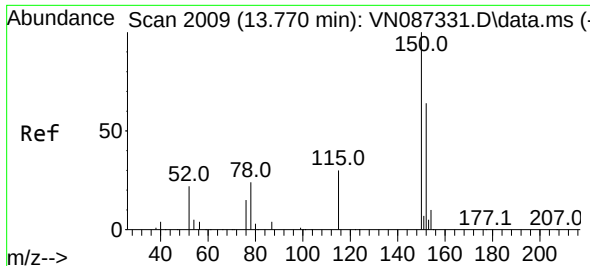
Tgt Ion:117 Resp: 504489
Ion Ratio Lower Upper
117 100
82 62.1 47.4 71.2
119 33.3 23.8 35.8



#65
Chlorobenzene
Concen: 0.585 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58

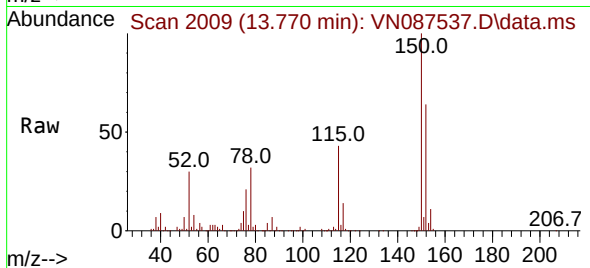
Tgt Ion:112 Resp: 6623
Ion Ratio Lower Upper
112 100
114 17.4 26.5 39.7#



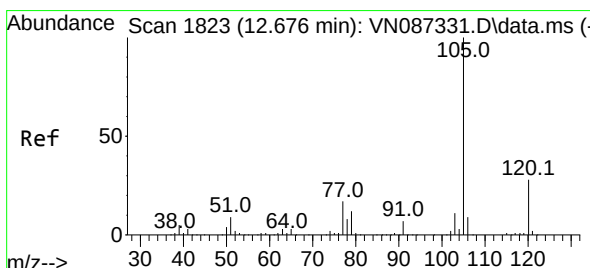
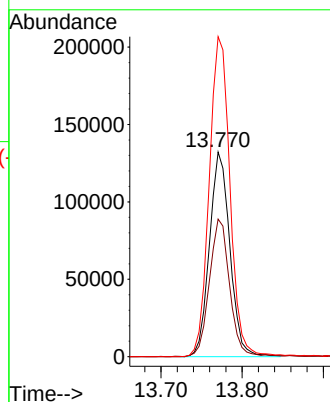
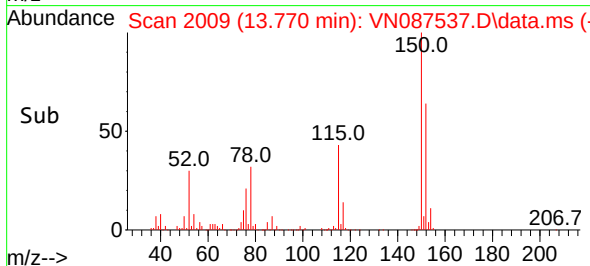


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58

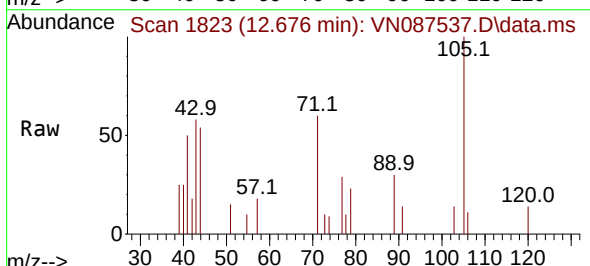
Instrument :
MSVOA_N
ClientSampleId :



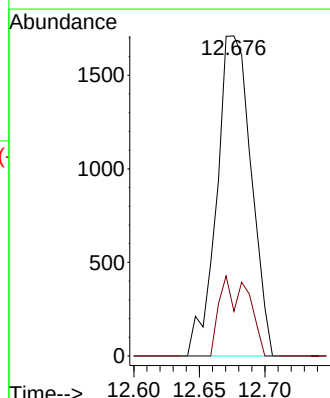
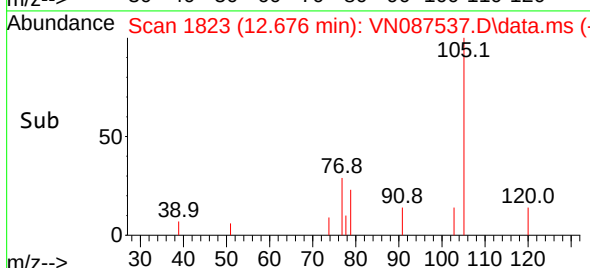
Tgt Ion:152 Resp: 231489
Ion Ratio Lower Upper
152 100
115 66.6 31.1 93.5
150 159.1 0.0 349.0

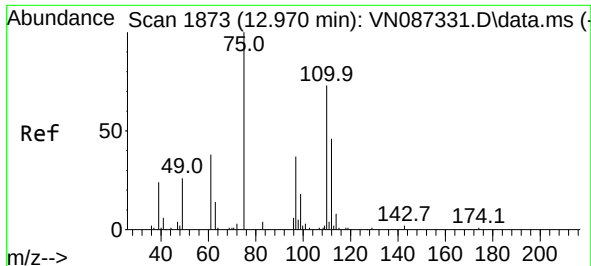


#73
Isopropylbenzene
Concen: 0.214 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.000 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58



Tgt Ion:105 Resp: 3124
Ion Ratio Lower Upper
105 100
120 20.7 13.4 40.1

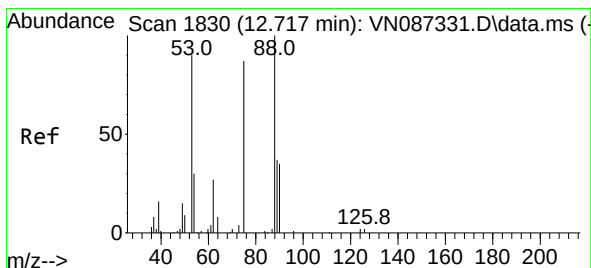
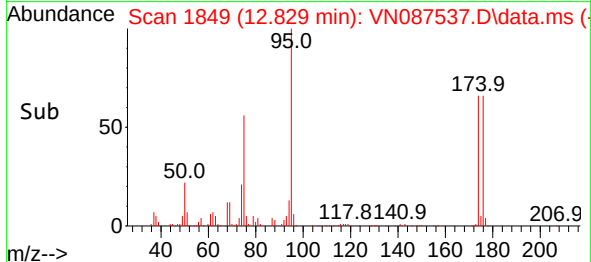
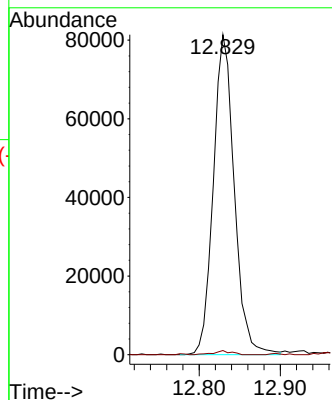
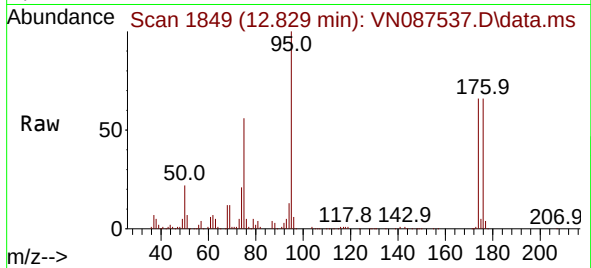




#76
1,2,3-Trichloropropane
Concen: 28.110 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58

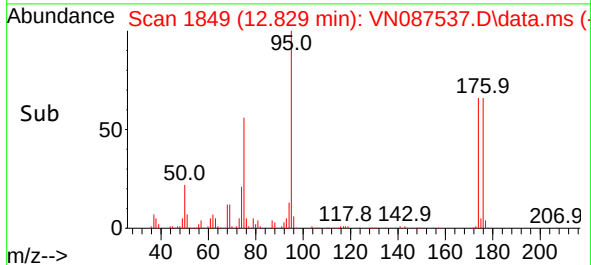
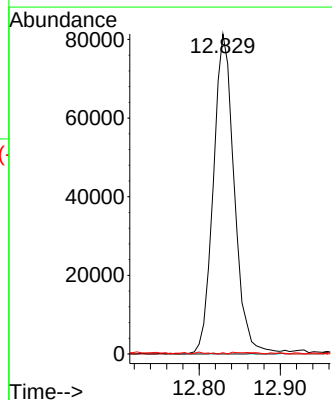
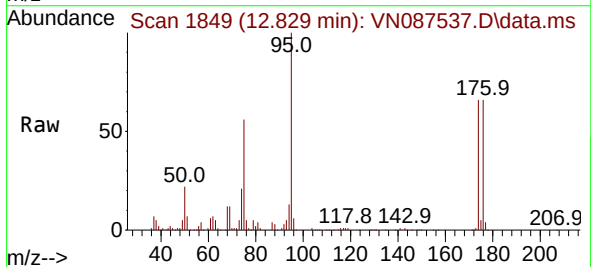
Instrument :
MSVOA_N
ClientSampleId :

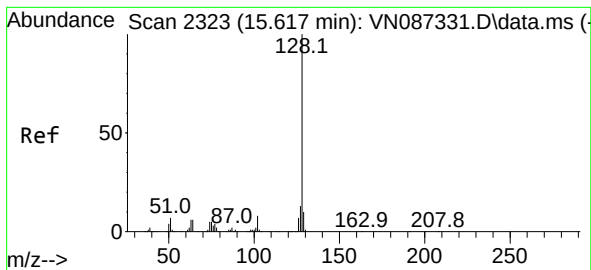
Tgt Ion: 75 Resp: 145919
Ion Ratio Lower Upper
75 100
77 1.0 94.5 283.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 76.914 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58

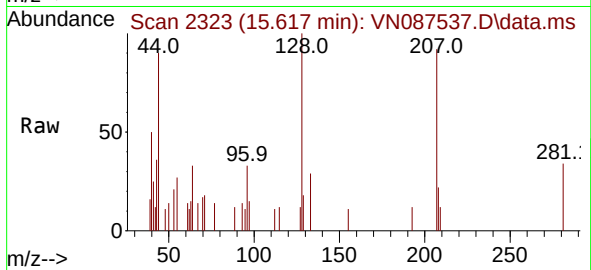
Tgt Ion: 75 Resp: 145919
Ion Ratio Lower Upper
75 100
53 0.0 83.5 125.3#
89 0.3 38.4 57.6#





#95
Naphthalene
Concen: 0.205 ug/l
RT: 15.617 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN087537.D
Acq: 13 Aug 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:	128	Resp:	3001
Ion	Ratio	Lower	Upper
128	100		
127	12.1	10.5	15.7
129	10.7	8.4	12.6

