

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
 Data File : VN087558.D
 Acq On : 14 Aug 2025 12:24
 Operator : JC\MD
 Sample : Q2832-04RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 14 15:24:22 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)

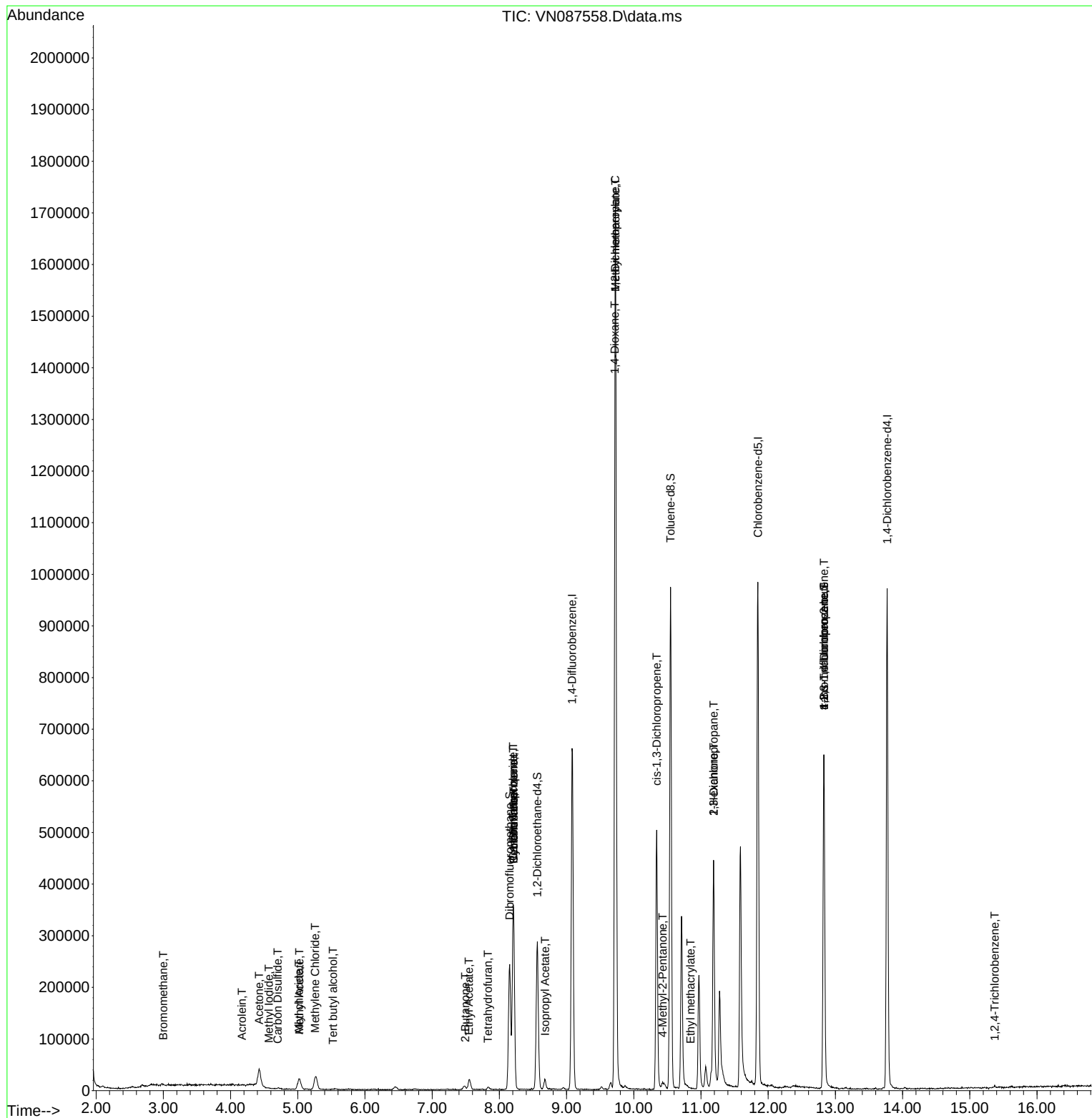
Internal Standards						
1) Pentafluorobenzene	8.212	168	239320	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	544507	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	524154	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	236126	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	237432	58.470	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	116.940%		
35) Dibromofluoromethane	8.153	113	173205	46.114	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.220%		
50) Toluene-d8	10.547	98	631927	47.165	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	94.340%		
62) 4-Bromofluorobenzene	12.829	95	229218	46.307	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	92.620%		
Target Compounds						
					Qvalue	
5) Bromomethane	3.001	94	1322	0.804	ug/l #	70
10) Methyl Iodide	4.571	142	101	5.667	ug/l #	40
11) Tert butyl alcohol	5.524	59	195	0.253	ug/l #	72
13) Acrolein	4.171	56	461	0.745	ug/l #	15
14) Allyl chloride	5.018	41	1228	0.248	ug/l #	35
16) Acetone	4.424	43	61497	32.299	ug/l #	88
17) Carbon Disulfide	4.700	76	2262	0.279	ug/l #	71
18) Methyl Acetate	5.024	43	47562	9.943	ug/l	96
20) Methylene Chloride	5.259	84	9854	2.453	ug/l	96
25) 2-Butanone	7.494	43	12018	4.085	ug/l #	84
29) Tetrahydrofuran	7.830	42	3120	1.633	ug/l #	90
31) Cyclohexane	8.212	56	8017	1.606	ug/l #	19
36) 1,1-Dichloropropene	8.206	75	24013	4.839	ug/l #	49
37) Ethyl Acetate	7.547	43	32509	4.536	ug/l	98
38) Carbon Tetrachloride	8.206	117	30174	5.520	ug/l #	16
43) Isopropyl Acetate	8.682	43	20780	1.868	ug/l #	91
45) 1,2-Dichloropropane	9.724	63	2271	0.557	ug/l #	41
48) Methyl methacrylate	9.729	41	171047	34.151	ug/l #	46
49) 1,4-Dioxane	9.718	88	85	1.108	ug/l #	1
51) 4-Methyl-2-Pentanone	10.429	43	7241	1.029	ug/l #	84
54) cis-1,3-Dichloropropene	10.341	75	82839	12.894	ug/l #	70
56) Ethyl methacrylate	10.847	69	73	0.646	ug/l #	24
57) 1,3-Dichloropropane	11.188	76	4516	0.662	ug/l #	42
59) 2-Hexanone	11.188	43	75656	16.206	ug/l #	52
76) 1,2,3-Trichloropropane	12.829	75	133406	25.195	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	133406	68.938	ug/l #	8
93) 1,2,4-Trichlorobenzene	15.370	180	905	0.215	ug/l #	90

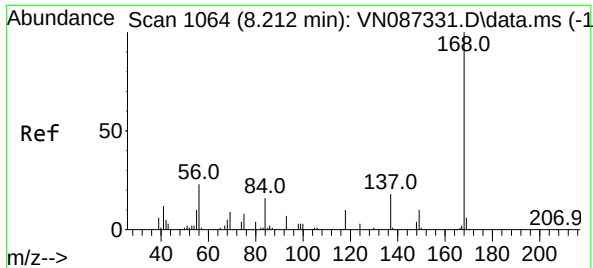
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087558.D
Acq On : 14 Aug 2025 12:24
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Sample : Q2832-04RE
Misc : 5.0mL/MSVOA_N/WATER
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Instrument :
MSVOA_N
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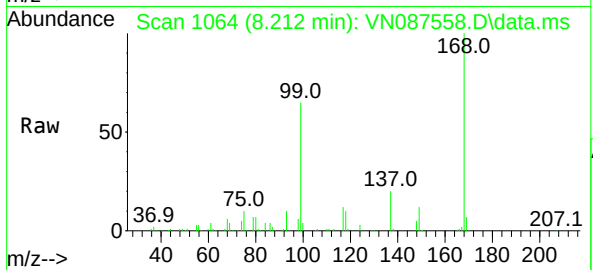
Quant Time: Aug 14 15:24:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration



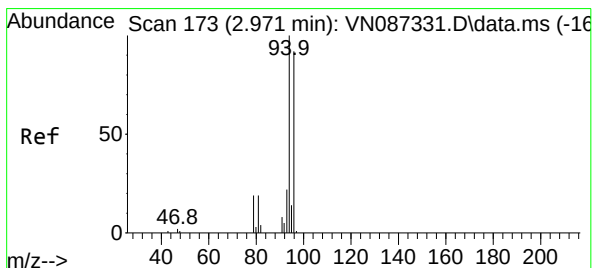
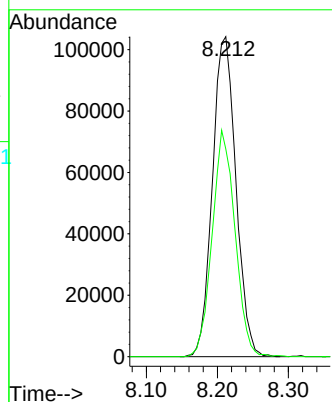
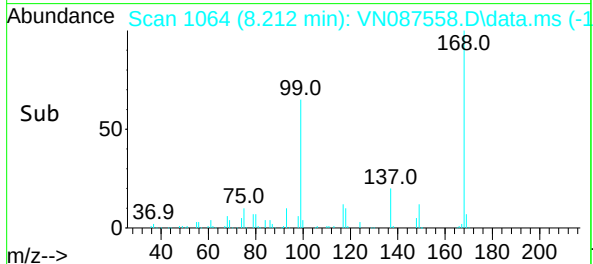


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

Instrument :
MSVOA_N
ClientSampleId :

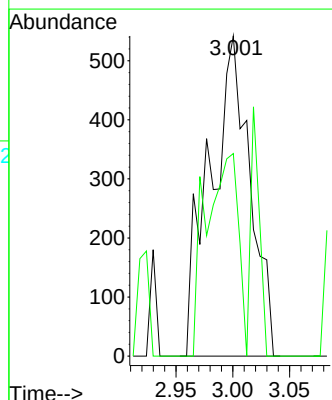
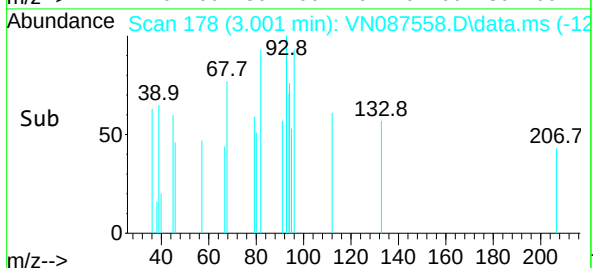
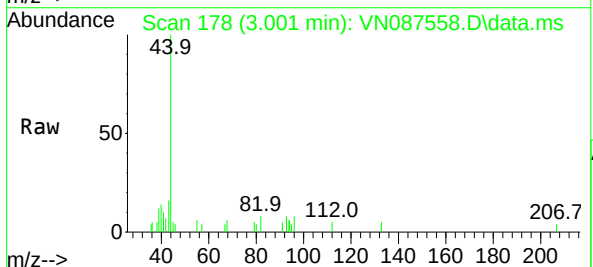


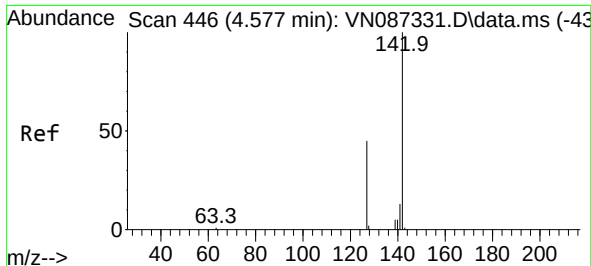
Tgt Ion:168 Resp: 239320
Ion Ratio Lower Upper
168 100
99 64.9 47.9 71.9



#5
Bromomethane
Concen: 0.804 ug/l
RT: 3.001 min Scan# 178
Delta R.T. 0.030 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

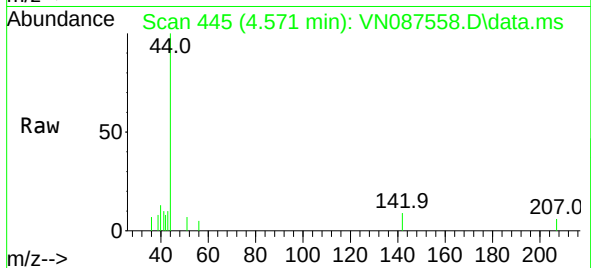
Tgt Ion: 94 Resp: 1322
Ion Ratio Lower Upper
94 100
96 63.3 73.4 110.2#



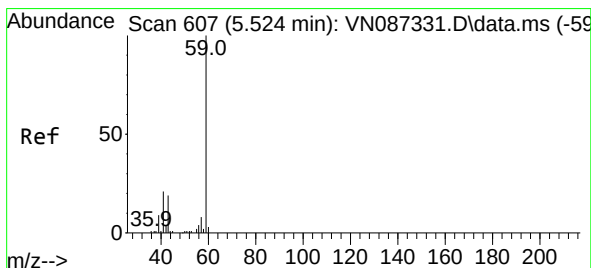
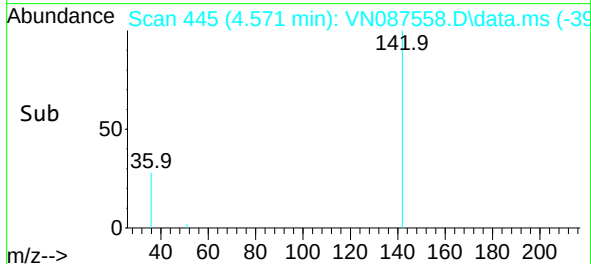
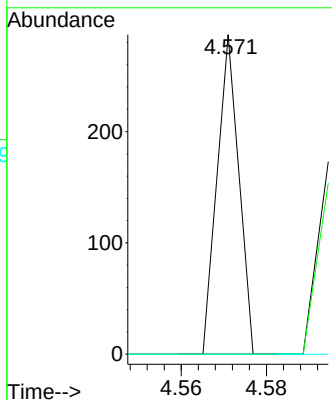


#10
Methyl Iodide
Concen: 5.667 ug/l
RT: 4.571 min Scan# 446
Delta R.T. -0.006 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

Instrument :
MSVOA_N
ClientSampleId :

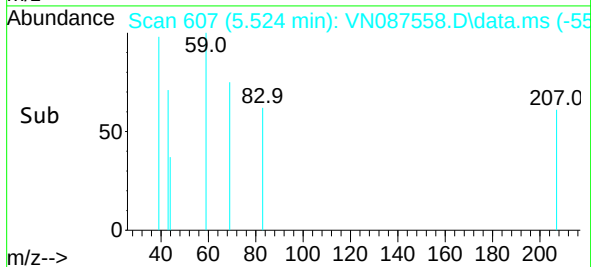
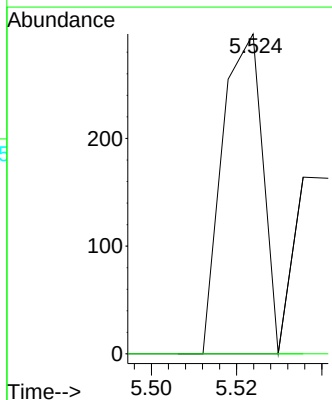
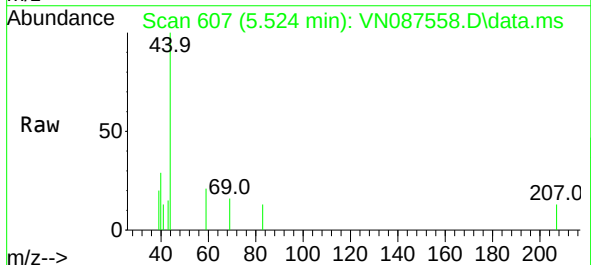


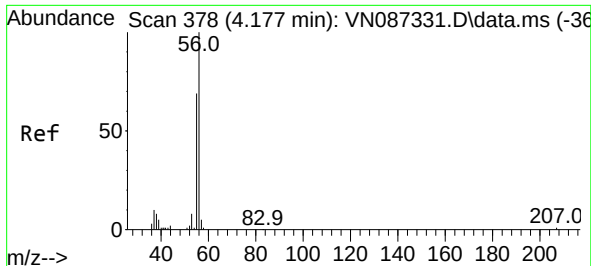
Tgt Ion:142 Resp: 101
Ion Ratio Lower Upper
142 100
127 0.0 35.7 53.5#
141 0.0 10.4 15.6#



#11
Tert butyl alcohol
Concen: 0.253 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.000 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

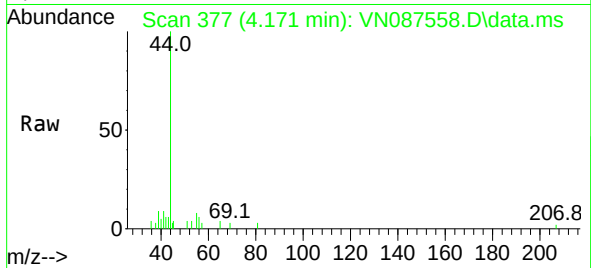
Tgt Ion: 59 Resp: 195
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



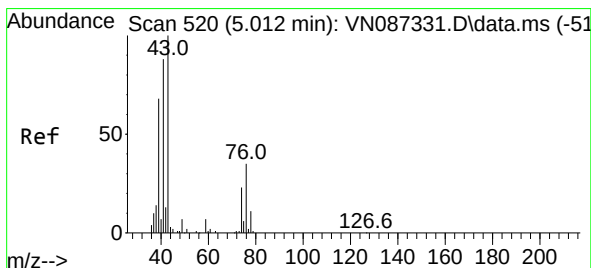
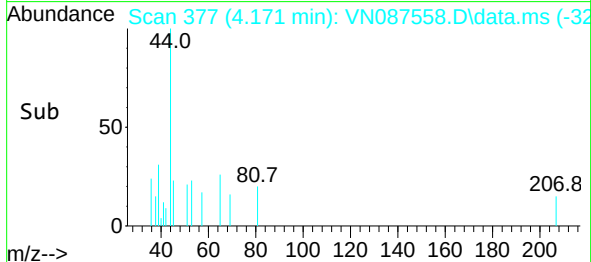
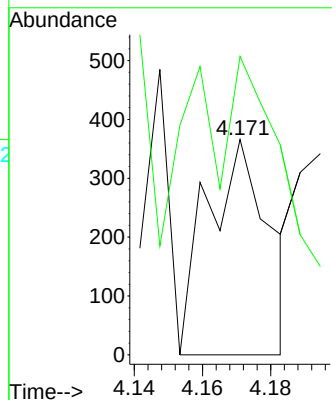


#13
Acrolein
Concen: 0.745 ug/l
RT: 4.171 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

Instrument :
MSVOA_N
ClientSampleId :

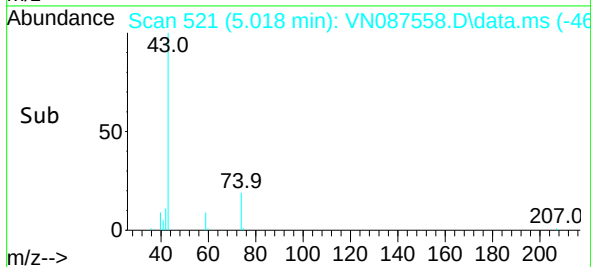
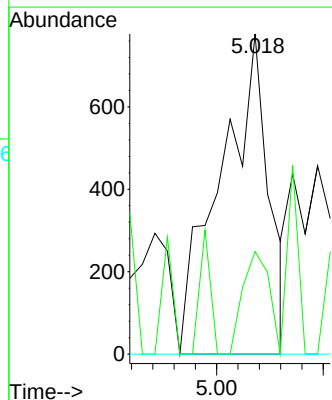
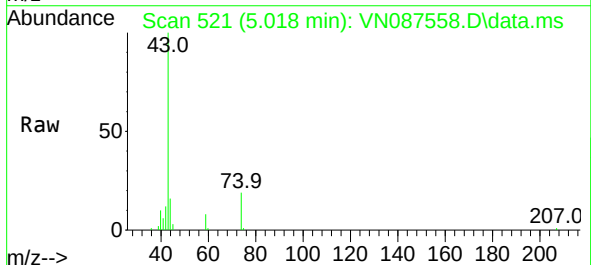


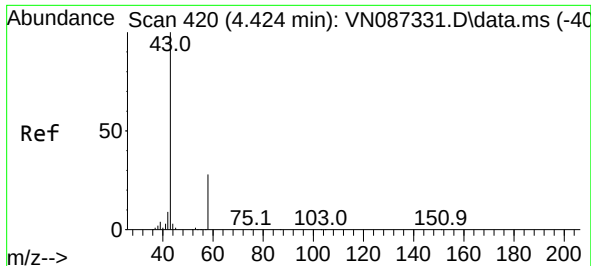
Tgt Ion: 56 Resp: 461
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#



#14
Allyl chloride
Concen: 0.248 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

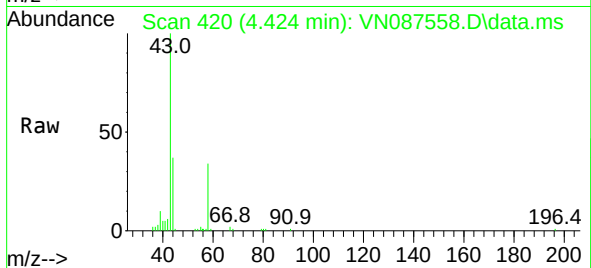
Tgt Ion: 41 Resp: 1228
Ion Ratio Lower Upper
41 100
39 17.5 59.0 88.6#
76 0.0 28.7 43.1#



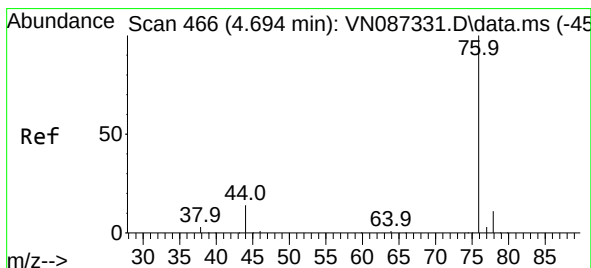
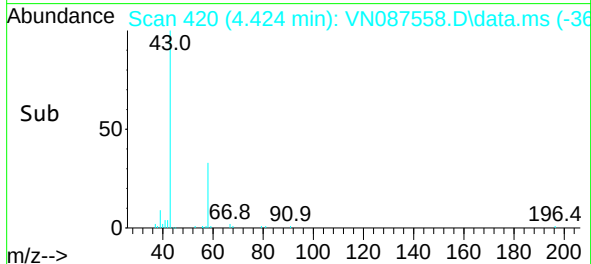
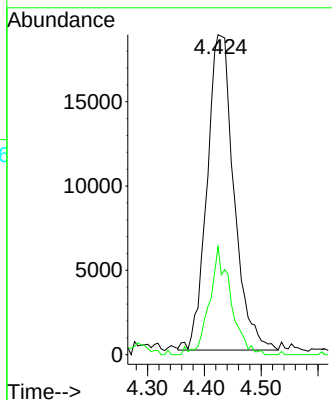


#16
Acetone
Concen: 32.299 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

Instrument :
MSVOA_N
ClientSampleId :

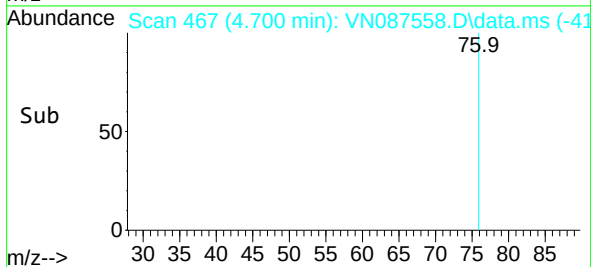
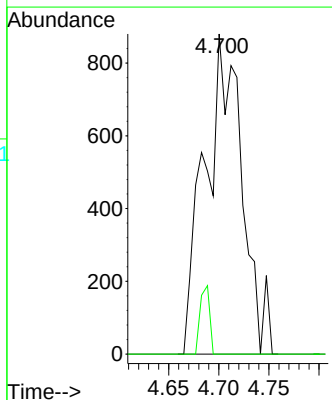
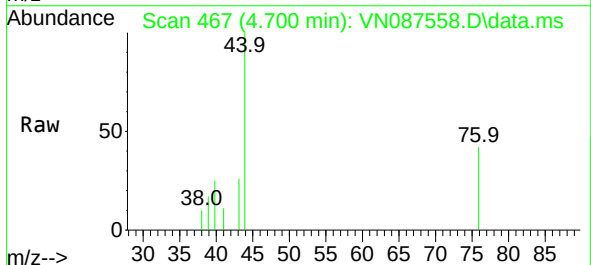


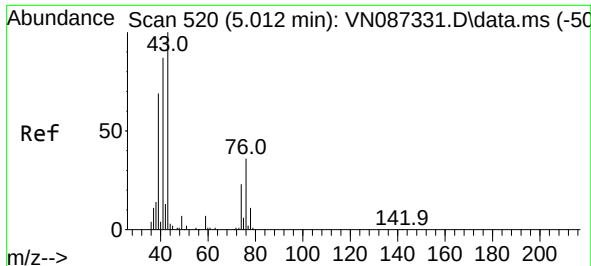
Tgt Ion: 43 Resp: 61497
Ion Ratio Lower Upper
43 100
58 34.2 22.3 33.5#



#17
Carbon Disulfide
Concen: 0.279 ug/l
RT: 4.700 min Scan# 467
Delta R.T. 0.006 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

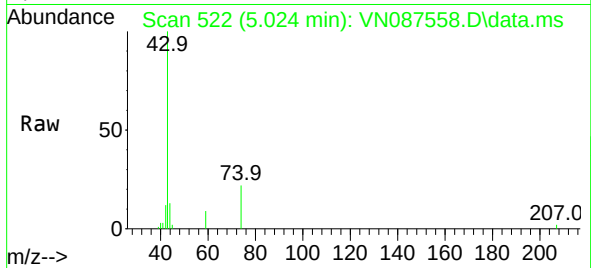
Tgt Ion: 76 Resp: 2262
Ion Ratio Lower Upper
76 100
78 0.0 8.6 13.0#



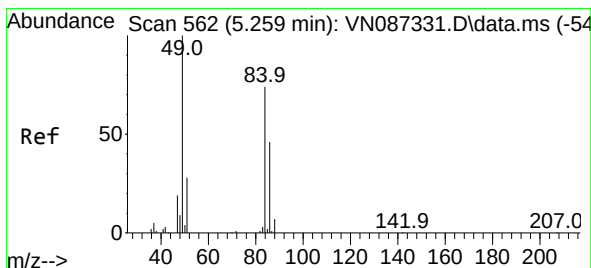
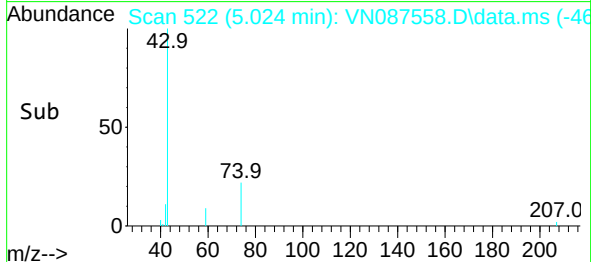
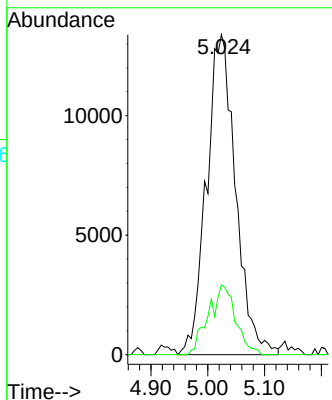


#18
Methyl Acetate
Concen: 9.943 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

Instrument :
MSVOA_N
ClientSampleId :

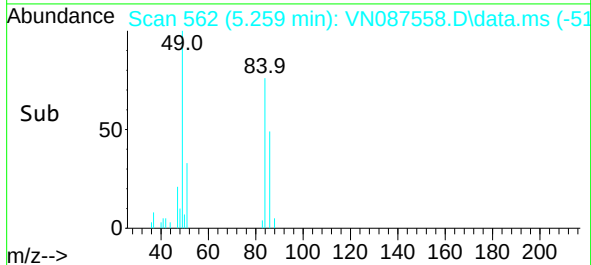
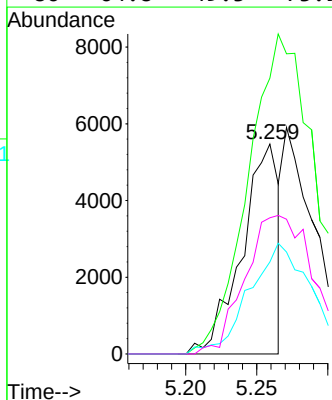
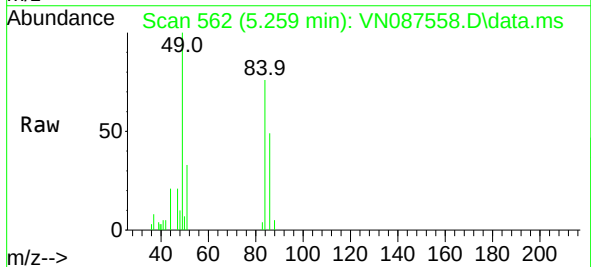


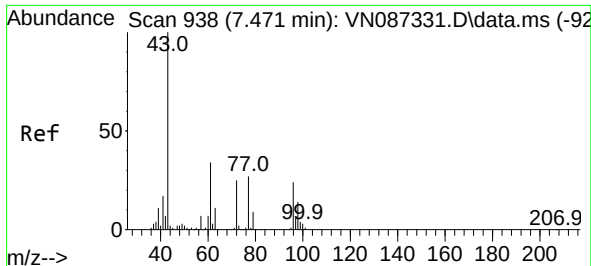
Tgt Ion: 43 Resp: 47562
Ion Ratio Lower Upper
43 100
74 20.5 17.8 26.6



#20
Methylene Chloride
Concen: 2.453 ug/l
RT: 5.259 min Scan# 562
Delta R.T. 0.000 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

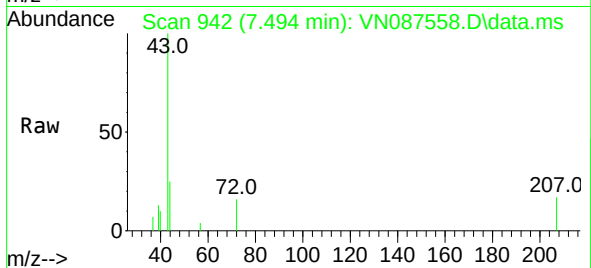
Tgt Ion: 84 Resp: 9854
Ion Ratio Lower Upper
84 100
49 131.4 107.5 161.3
51 43.8 30.2 45.2
86 64.8 49.3 73.9



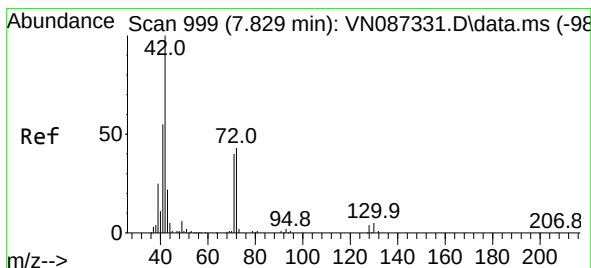
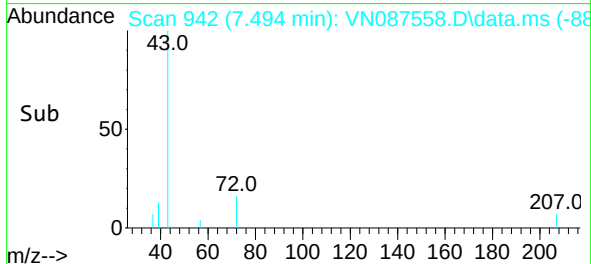
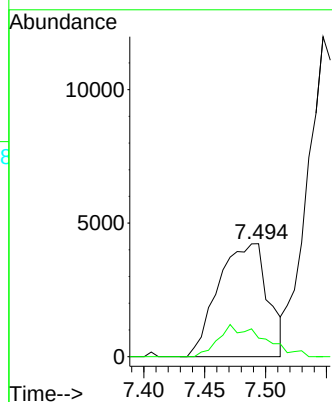


#25
2-Butanone
Concen: 4.085 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.024 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

Instrument :
MSVOA_N
ClientSampleId :

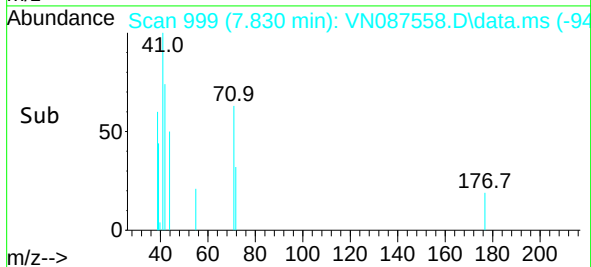
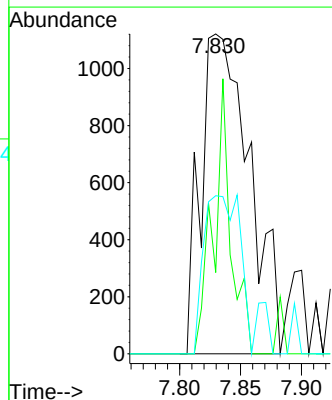
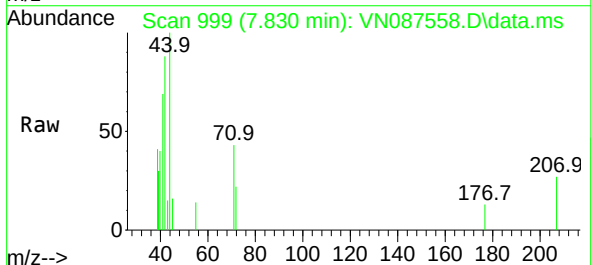


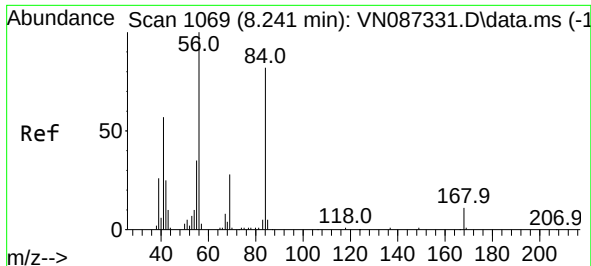
Tgt Ion: 43 Resp: 12018
Ion Ratio Lower Upper
43 100
72 16.4 19.6 29.4#



#29
Tetrahydrofuran
Concen: 1.633 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.000 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

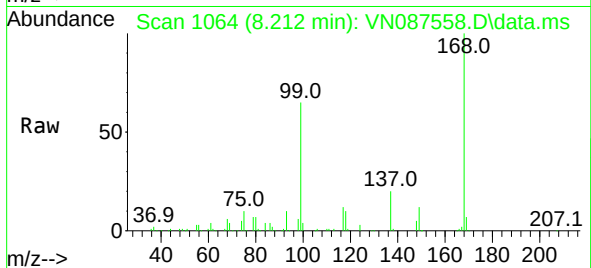
Tgt Ion: 42 Resp: 3120
Ion Ratio Lower Upper
42 100
72 31.0 33.4 50.0#
71 36.9 31.2 46.8



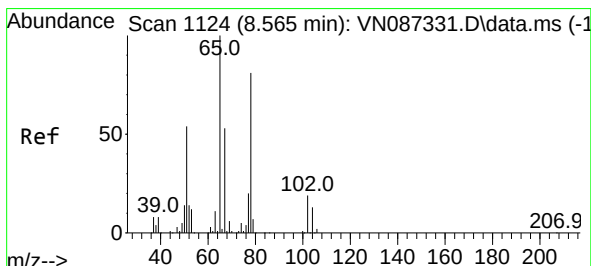
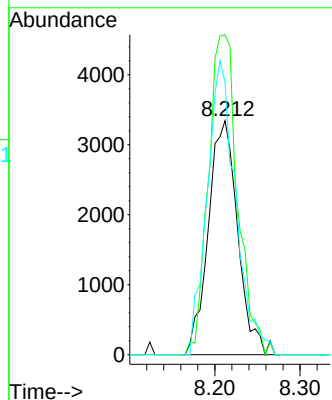
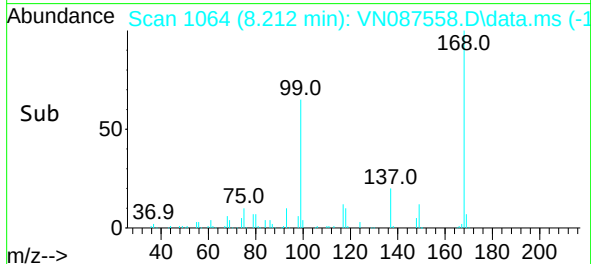


#31
Cyclohexane
Concen: 1.606 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.029 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

Instrument :
MSVOA_N
ClientSampleId :

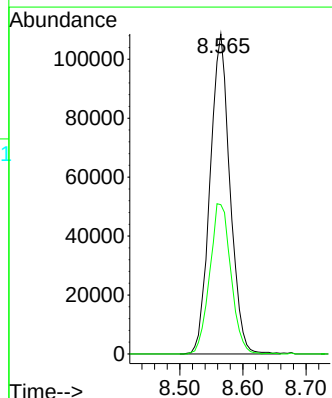
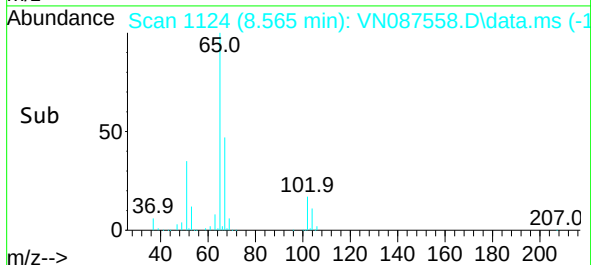
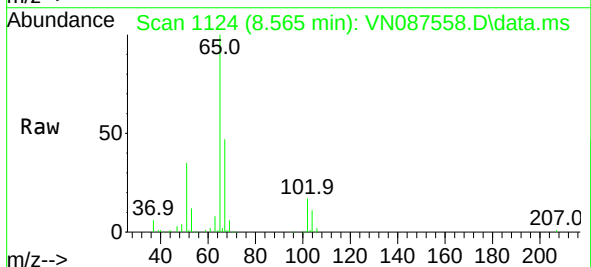


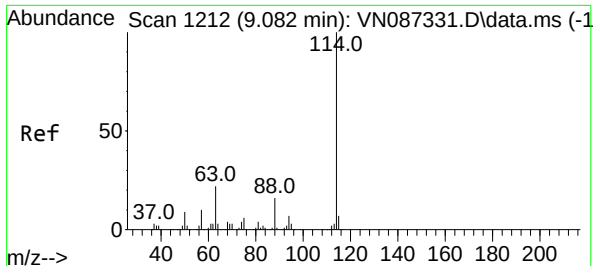
Tgt Ion: 56 Resp: 8017
Ion Ratio Lower Upper
56 100
69 136.8 22.7 34.1#
84 116.4 65.8 98.6#



#33
1,2-Dichloroethane-d4
Concen: 58.470 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.000 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

Tgt Ion: 65 Resp: 237432
Ion Ratio Lower Upper
65 100
67 50.0 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087558.D

Acq: 14 Aug 2025 12:24

Instrument :

MSVOA_N

ClientSampleId :

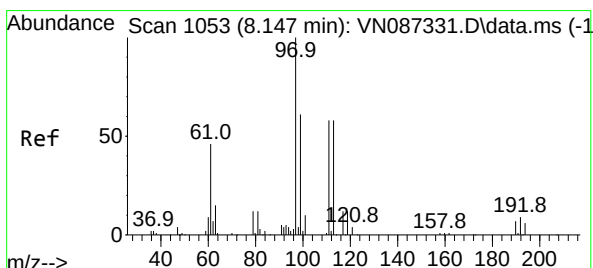
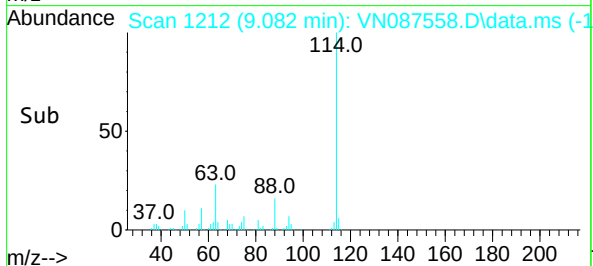
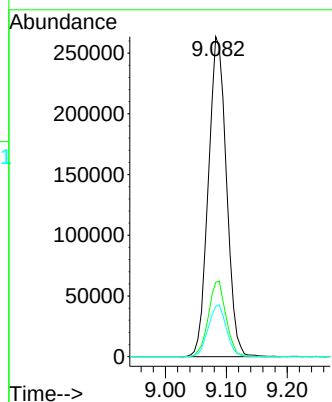
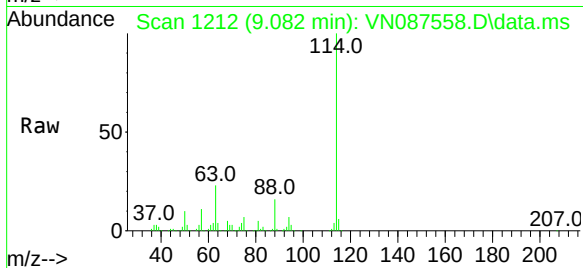
Tgt Ion:114 Resp: 544507

Ion Ratio Lower Upper

114 100

63 23.2 0.0 44.6

88 15.7 0.0 32.8



#35

Dibromofluoromethane

Concen: 46.114 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087558.D

Acq: 14 Aug 2025 12:24

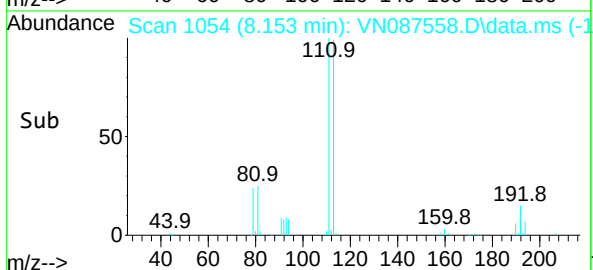
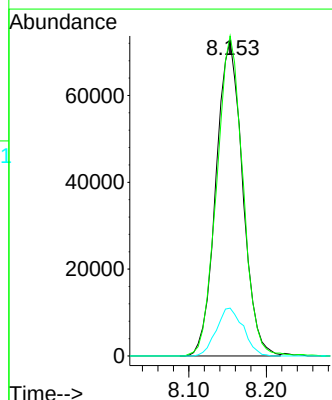
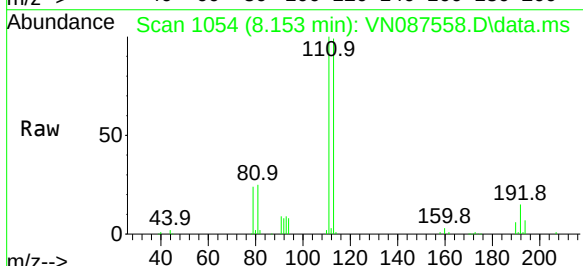
Tgt Ion:113 Resp: 173205

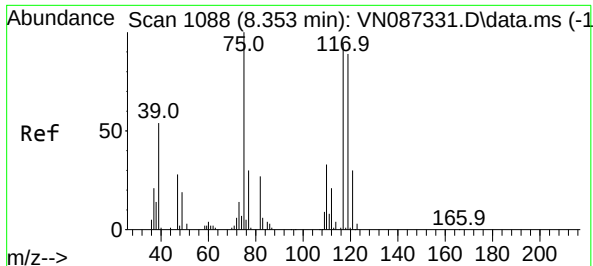
Ion Ratio Lower Upper

113 100

111 99.7 82.5 123.7

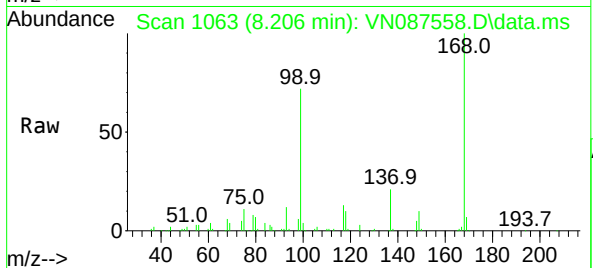
192 15.4 13.7 20.5



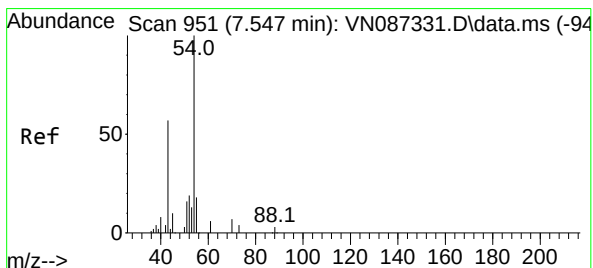
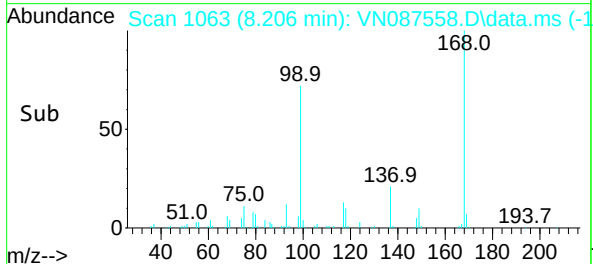
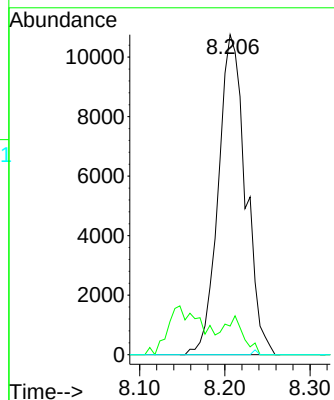


#36
1,1-Dichloropropene
Concen: 4.839 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.147 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

Instrument :
MSVOA_N
ClientSampleId :

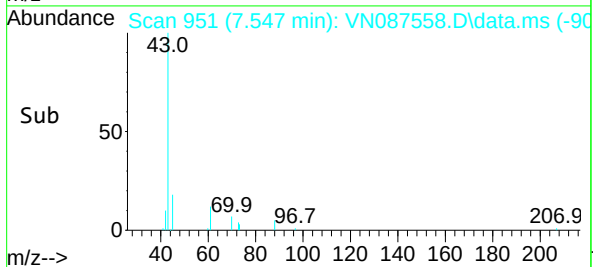
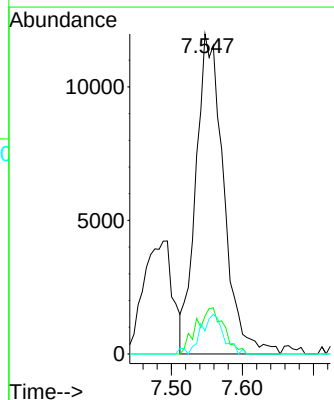
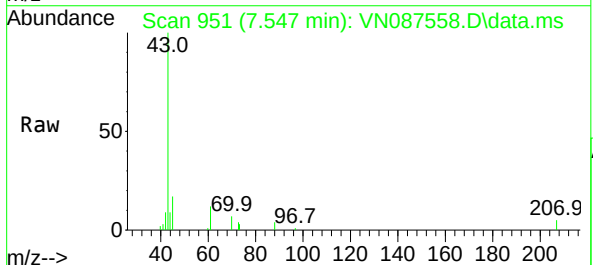


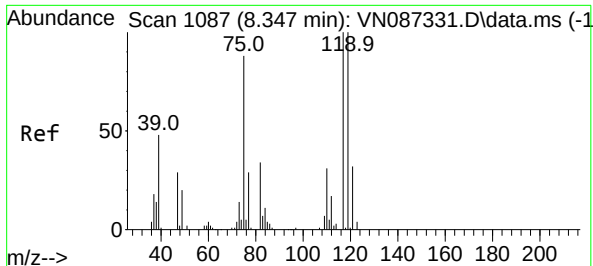
Tgt Ion: 75 Resp: 24013
Ion Ratio Lower Upper
75 100
110 7.9 16.7 50.1#
77 0.0 25.2 37.8#



#37
Ethyl Acetate
Concen: 4.536 ug/l
RT: 7.547 min Scan# 951
Delta R.T. 0.000 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

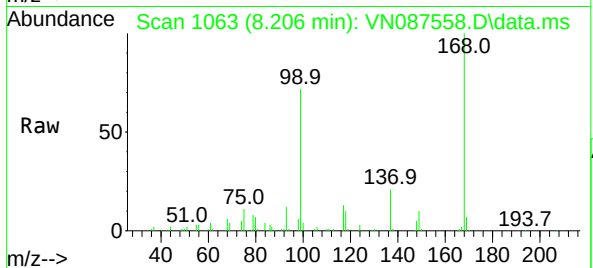
Tgt Ion: 43 Resp: 32509
Ion Ratio Lower Upper
43 100
61 14.3 10.9 16.3
70 9.8 7.4 11.0



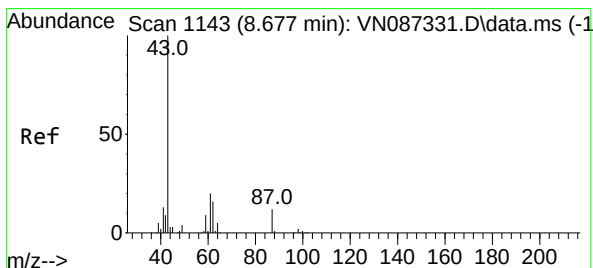
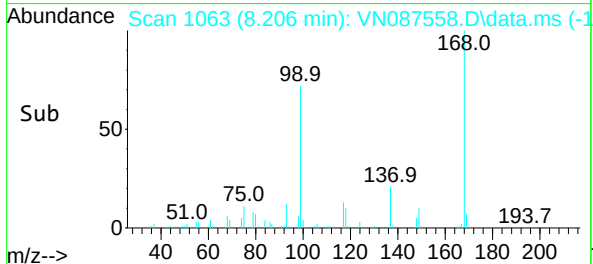
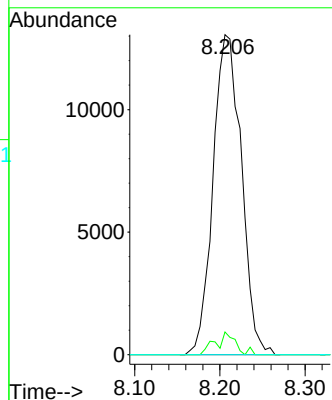


#38
Carbon Tetrachloride
Concen: 5.520 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.141 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

Instrument :
MSVOA_N
ClientSampleId :

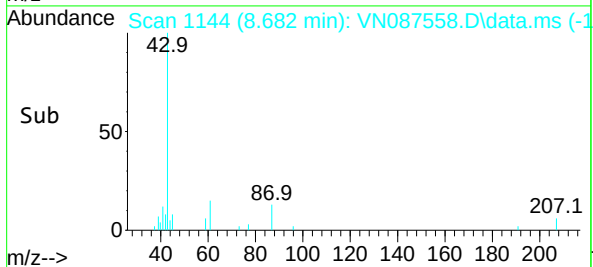
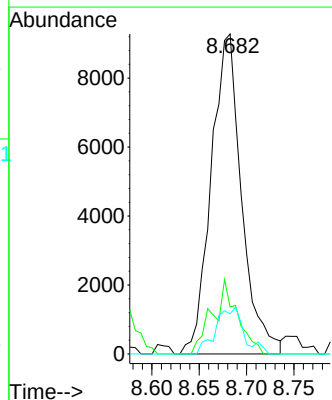
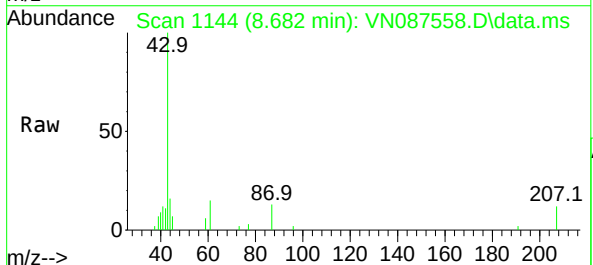


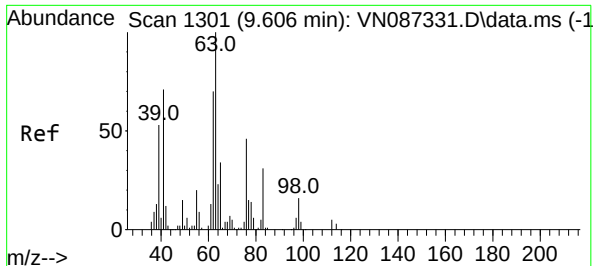
Tgt Ion:117 Resp: 30174
Ion Ratio Lower Upper
117 100
119 7.1 80.2 120.2#
121 0.0 25.4 38.2#



#43
Isopropyl Acetate
Concen: 1.868 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. 0.005 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

Tgt Ion: 43 Resp: 20780
Ion Ratio Lower Upper
43 100
61 19.1 19.8 29.8#
87 13.5 9.8 14.6





#45

1,2-Dichloropropane

Concen: 0.557 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.118 min

Lab File: VN087558.D

Acq: 14 Aug 2025 12:24

Instrument :

MSVOA_N

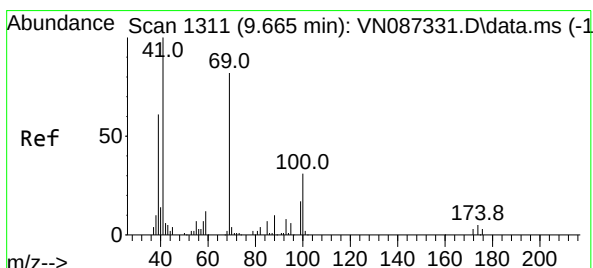
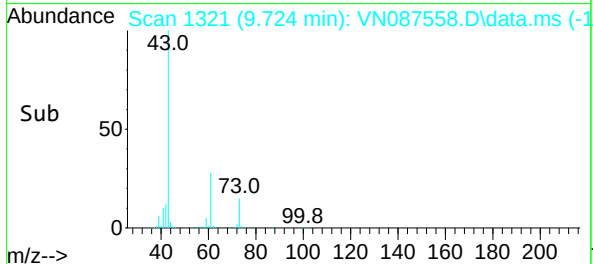
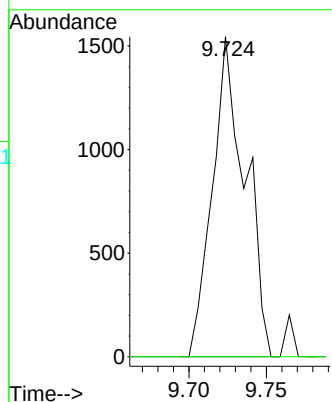
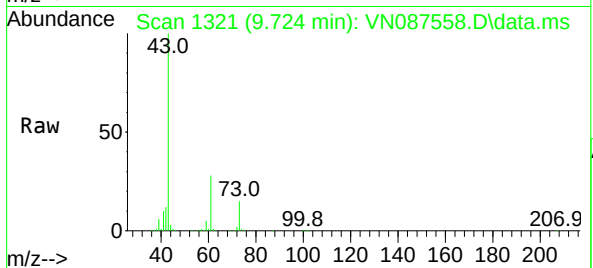
ClientSampleId :

Tgt Ion: 63 Resp: 2271

Ion Ratio Lower Upper

63 100

65 0.0 27.0 40.4#



#48

Methyl methacrylate

Concen: 34.151 ug/l

RT: 9.729 min Scan# 1322

Delta R.T. 0.065 min

Lab File: VN087558.D

Acq: 14 Aug 2025 12:24

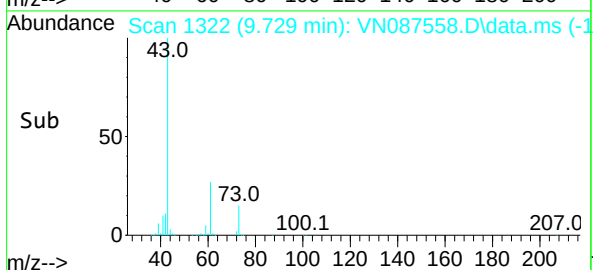
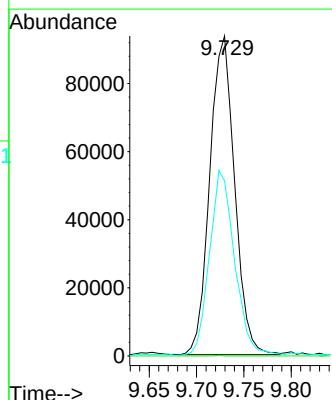
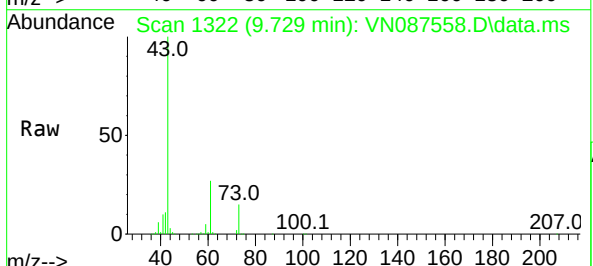
Tgt Ion: 41 Resp: 171047

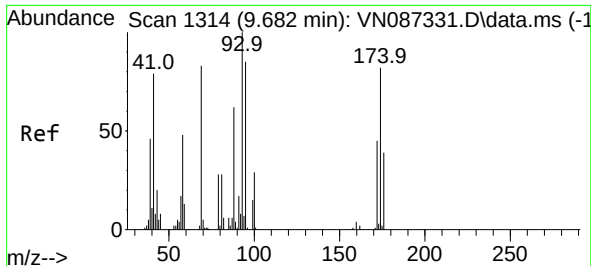
Ion Ratio Lower Upper

41 100

69 0.0 64.1 96.1#

39 58.4 45.5 68.3





#49

1,4-Dioxane

Concen: 1.108 ug/l

RT: 9.718 min Scan# 11

Delta R.T. 0.036 min

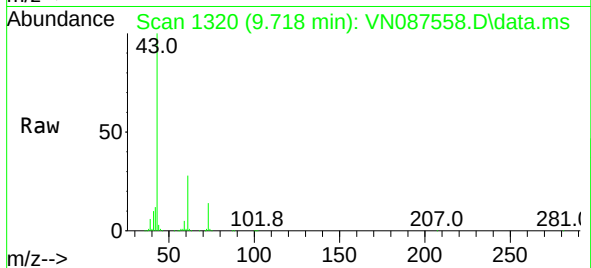
Lab File: VN087558.D

Acq: 14 Aug 2025 12:24

Instrument :

MSVOA_N

ClientSampleId :



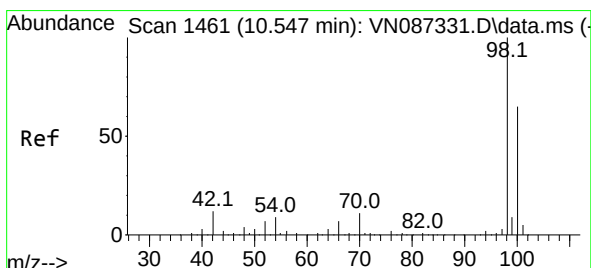
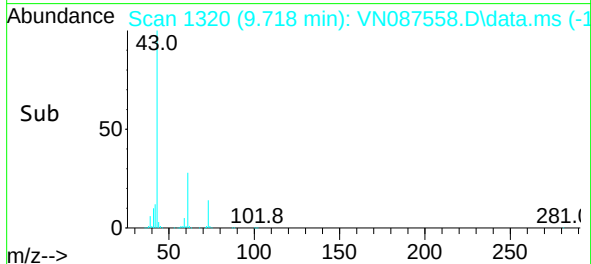
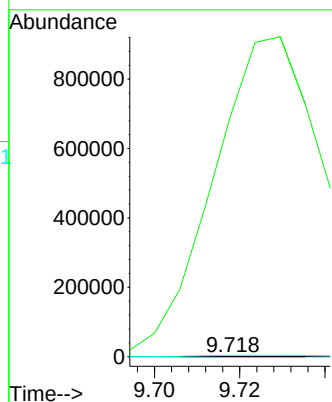
Tgt Ion: 88 Resp: 85

Ion Ratio Lower Upper

88 100

43 2059324.7 0.0 0.0#

58 10487.1 61.1 91.7#



#50

Toluene-d8

Concen: 47.165 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN087558.D

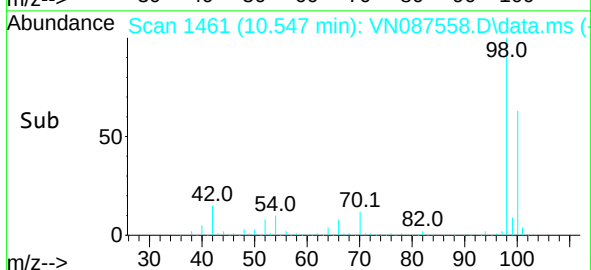
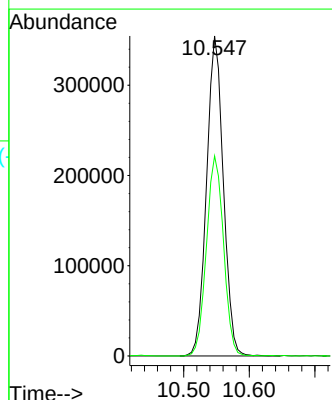
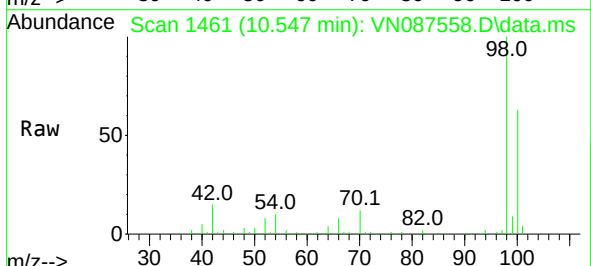
Acq: 14 Aug 2025 12:24

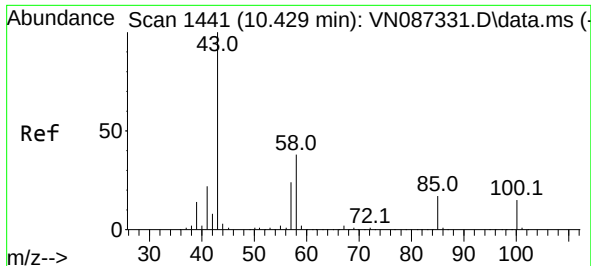
Tgt Ion: 98 Resp: 631927

Ion Ratio Lower Upper

98 100

100 63.7 52.1 78.1

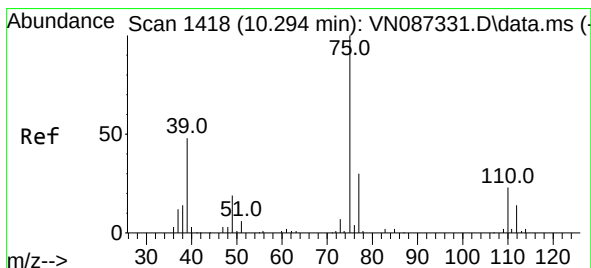
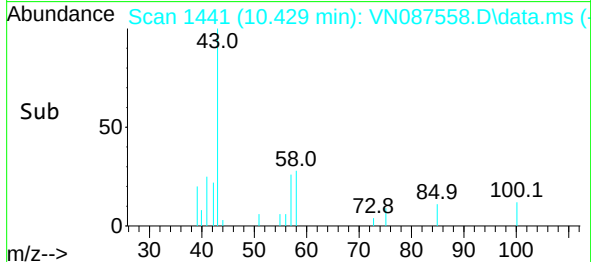
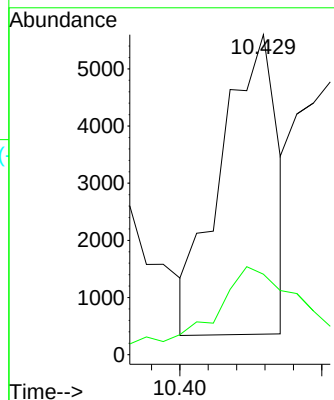
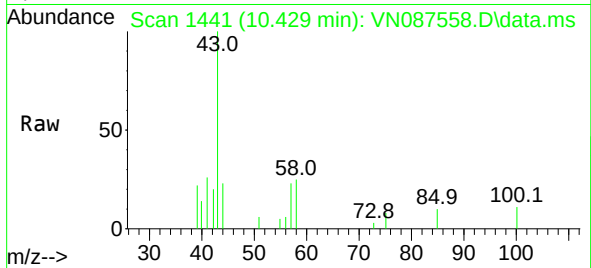




#51
4-Methyl-2-Pentanone
Concen: 1.029 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.000 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

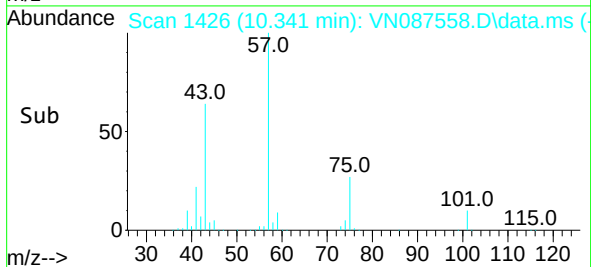
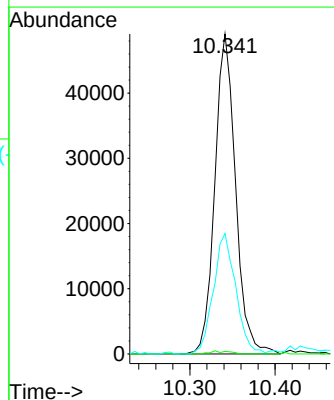
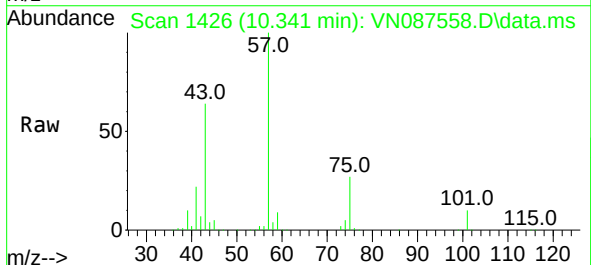
Instrument :
MSVOA_N
ClientSampleId :

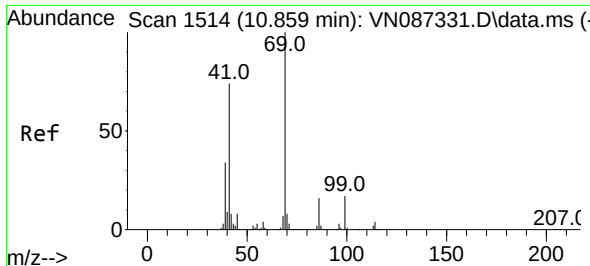
Tgt Ion: 43 Resp: 7241
Ion Ratio Lower Upper
43 100
58 48.1 30.8 46.2#



#54
cis-1,3-Dichloropropene
Concen: 12.894 ug/l
RT: 10.341 min Scan# 1426
Delta R.T. 0.047 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

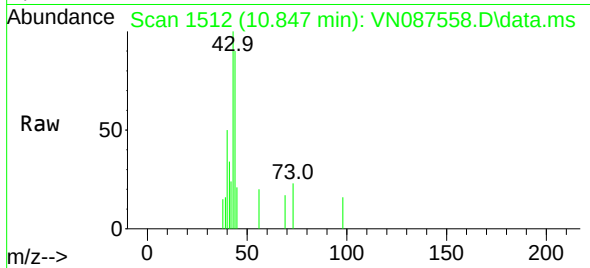
Tgt Ion: 75 Resp: 82839
Ion Ratio Lower Upper
75 100
77 0.8 24.2 36.2#
39 37.7 38.4 57.6#



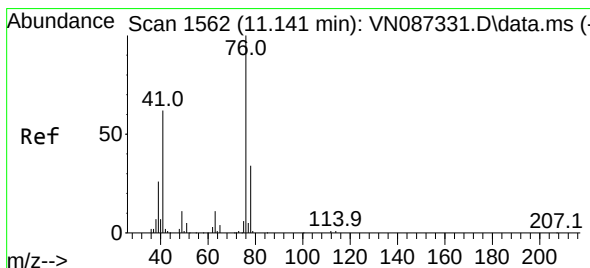
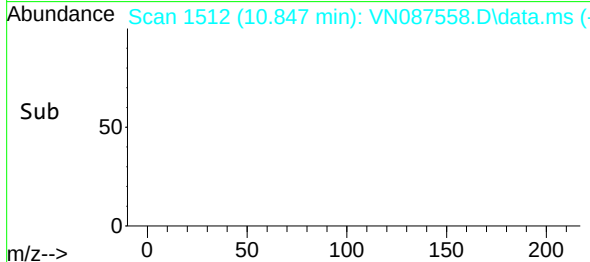
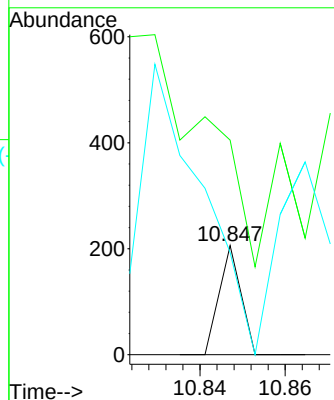


#56
Ethyl methacrylate
Concen: 0.646 ug/l
RT: 10.847 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

Instrument :
MSVOA_N
ClientSampleId :

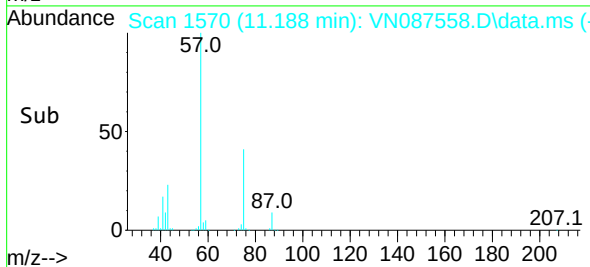
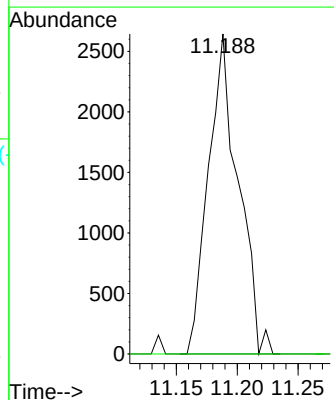
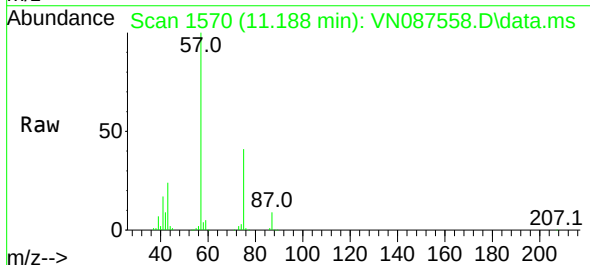


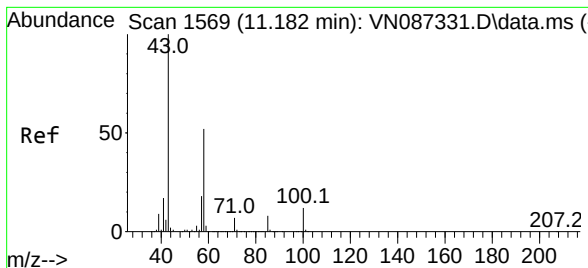
Tgt Ion: 69 Resp: 73
Ion Ratio Lower Upper
69 100
41 0.0 55.1 82.7#
39 0.0 27.9 41.9#



#57
1,3-Dichloropropane
Concen: 0.662 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. 0.047 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

Tgt Ion: 76 Resp: 4516
Ion Ratio Lower Upper
76 100
78 0.0 26.0 39.0#

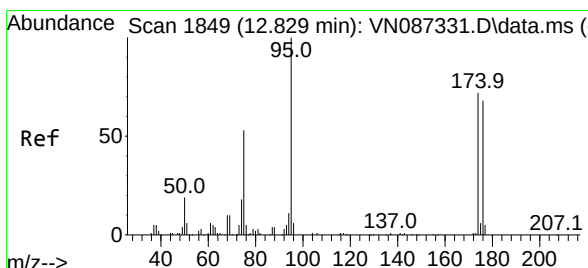
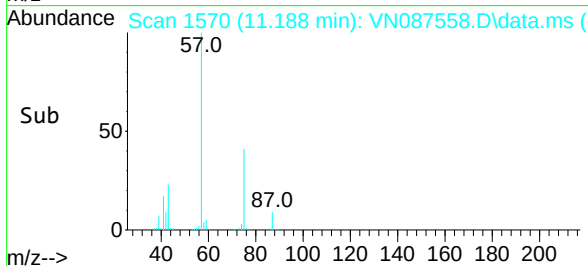
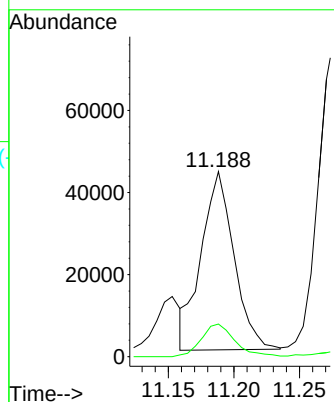
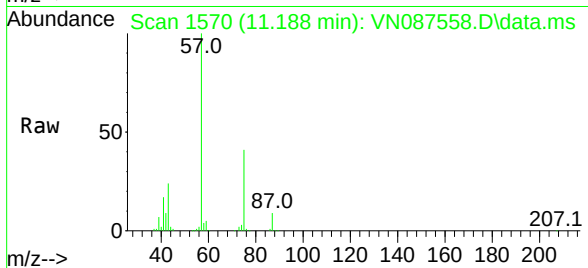




#59
2-Hexanone
Concen: 16.206 ug/l
RT: 11.188 min Scan# 1569
Delta R.T. 0.006 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

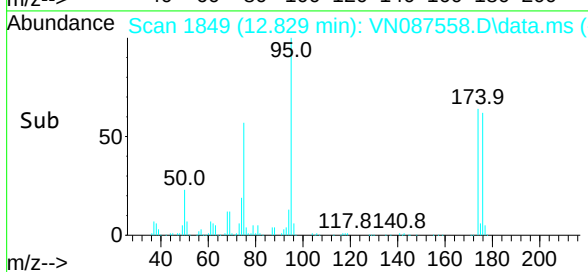
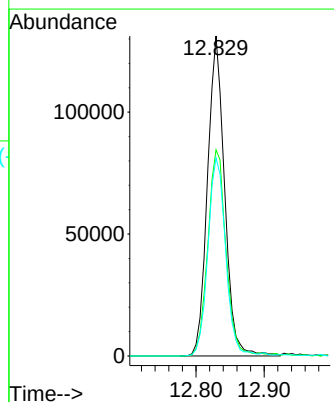
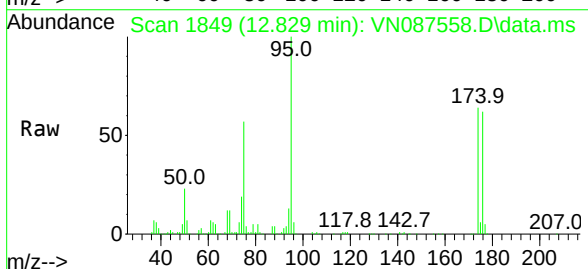
Instrument :
MSVOA_N
ClientSampleId :

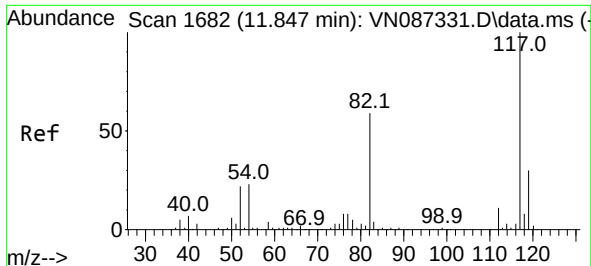
Tgt Ion: 43 Resp: 75656
Ion Ratio Lower Upper
43 100
58 18.8 26.7 80.0#



#62
4-Bromofluorobenzene
Concen: 46.307 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

Tgt Ion: 95 Resp: 229218
Ion Ratio Lower Upper
95 100
174 69.0 0.0 149.4
176 63.9 0.0 141.2

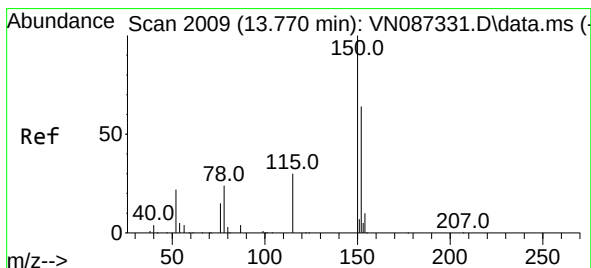
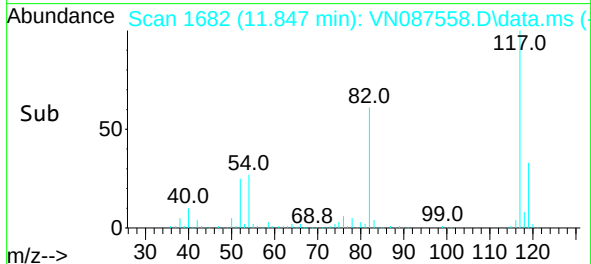
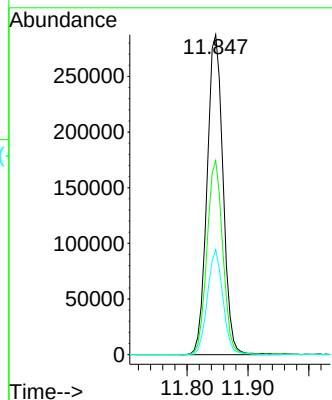
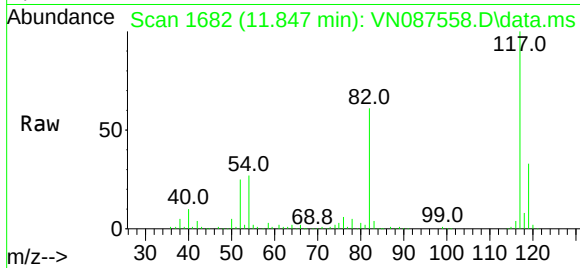




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

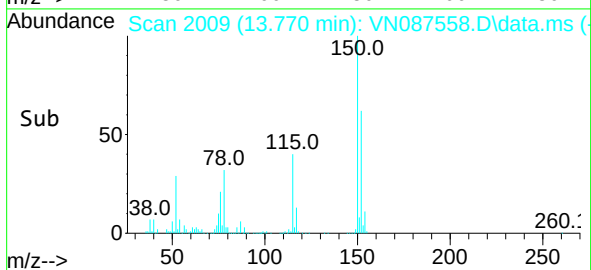
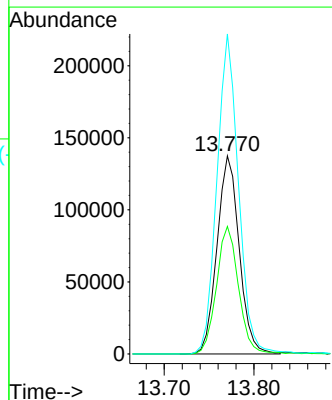
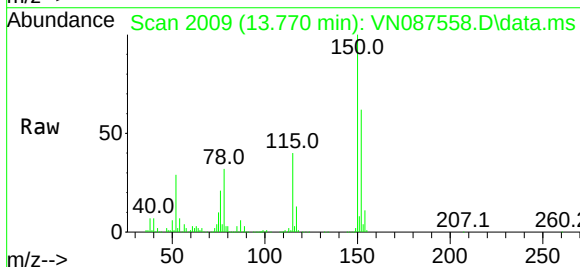
Instrument :
MSVOA_N
ClientSampleId :

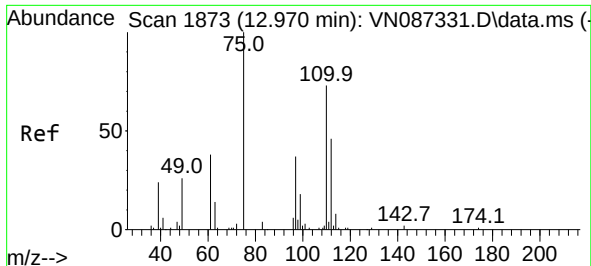
Tgt Ion:117 Resp: 524154
Ion Ratio Lower Upper
117 100
82 60.7 47.4 71.2
119 32.9 23.8 35.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

Tgt Ion:152 Resp: 236126
Ion Ratio Lower Upper
152 100
115 64.4 31.1 93.5
150 157.1 0.0 349.0

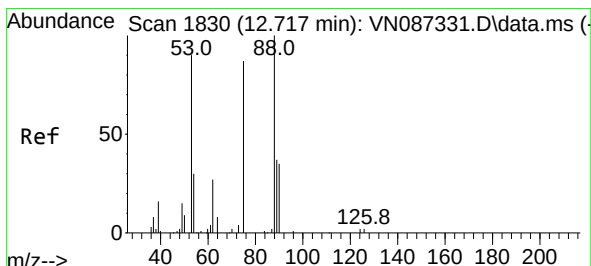
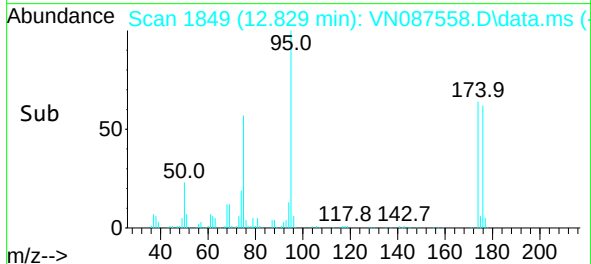
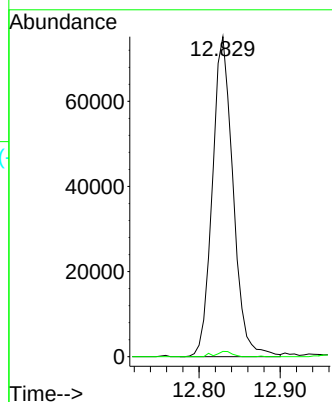
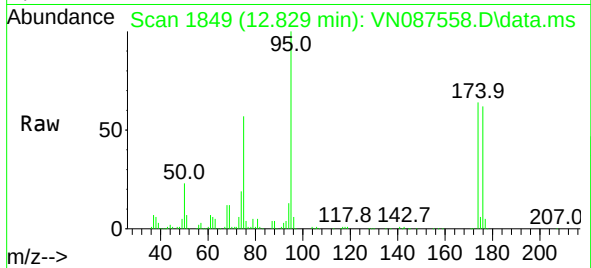




#76
1,2,3-Trichloropropane
Concen: 25.195 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

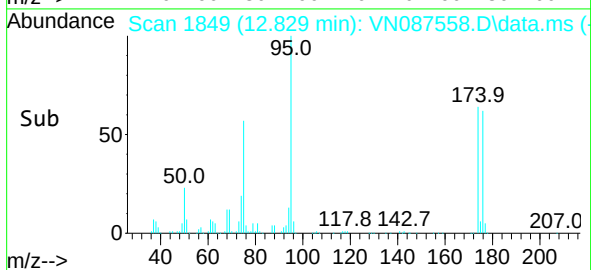
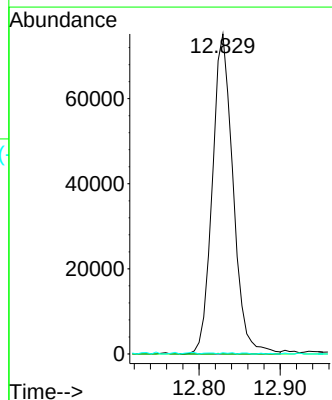
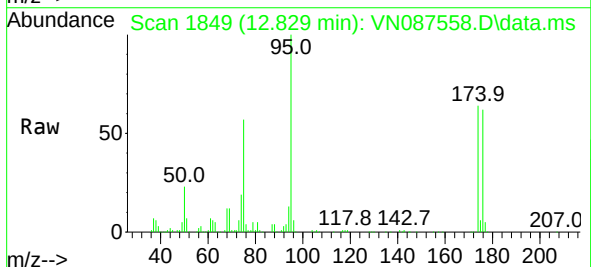
Instrument :
MSVOA_N
ClientSampleId :

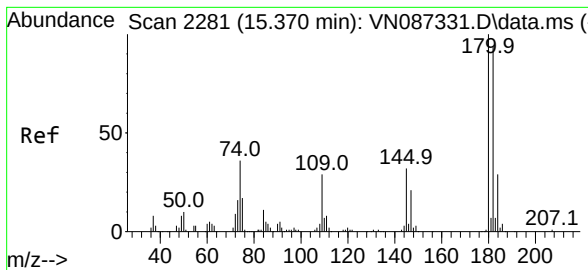
Tgt Ion: 75 Resp: 133406
Ion Ratio Lower Upper
75 100
77 1.3 94.5 283.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 68.938 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087558.D
Acq: 14 Aug 2025 12:24

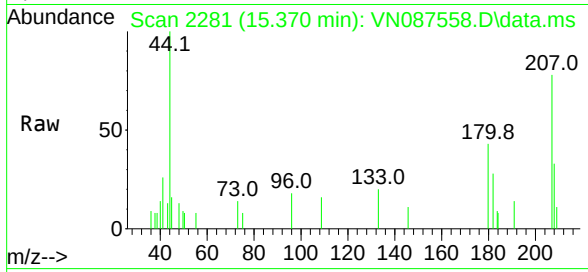
Tgt Ion: 75 Resp: 133406
Ion Ratio Lower Upper
75 100
53 0.0 83.5 125.3#
89 0.2 38.4 57.6#





#93
 1,2,4-Trichlorobenzene
 Concen: 0.215 ug/l
 RT: 15.370 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN087558.D
 Acq: 14 Aug 2025 12:24

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	905
Ion	Ratio	Lower	Upper
180	100		
182	97.1	47.3	141.8
145	13.4	15.4	46.4#

