

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081325\
 Data File : VN087543.D
 Acq On : 13 Aug 2025 18:12
 Operator : JC\MD
 Sample : Q2832-10
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

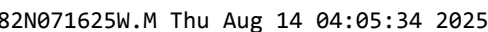
Quant Time: Aug 14 04:05:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

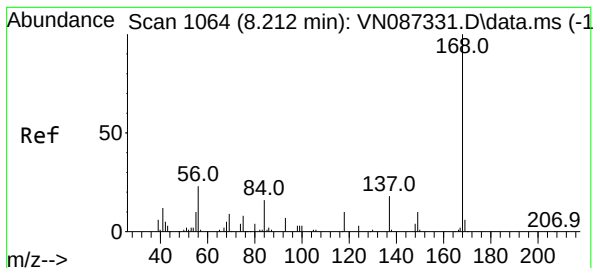
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.212	168	170102	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	344303	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	313708	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	145236	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	165991	57.511	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 115.020%			
35) Dibromofluoromethane	8.153	113	112473	47.357	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.720%			
50) Toluene-d8	10.547	98	395365	46.668	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.340%			
62) 4-Bromofluorobenzene	12.829	95	141673	45.263	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 90.520%			
Target Compounds					Qvalue	
5) Bromomethane	2.983	94	938	0.802	ug/l #	74
10) Methyl Iodide	4.589	142	91	5.677	ug/l #	40
11) Tert butyl alcohol	5.512	59	341	0.622	ug/l #	72
13) Acrolein	4.183	56	753	1.712	ug/l #	82
16) Acetone	4.424	43	62744	46.364	ug/l	99
17) Carbon Disulfide	4.700	76	1172	0.204	ug/l #	71
18) Methyl Acetate	5.018	43	49596	14.587	ug/l	97
20) Methylene Chloride	5.271	84	16913	6.840	ug/l #	81
25) 2-Butanone	7.483	43	11944	5.712	ug/l #	75
29) Tetrahydrofuran	7.830	42	2474	1.821	ug/l #	75
31) Cyclohexane	8.206	56	5129	1.445	ug/l #	15
36) 1,1-Dichloropropene	8.206	75	17334	5.524	ug/l #	47
37) Ethyl Acetate	7.559	43	32457	7.162	ug/l	97
38) Carbon Tetrachloride	8.206	117	19571	5.662	ug/l #	13
43) Isopropyl Acetate	8.677	43	21114	3.001	ug/l #	91
48) Methyl methacrylate	9.730	41	155565	49.121	ug/l #	46
49) 1,4-Dioxane	9.735	88	71	1.464	ug/l #	1
51) 4-Methyl-2-Pentanone	10.424	43	9356	2.103	ug/l	90
54) cis-1,3-Dichloropropene	10.341	75	74500	18.338	ug/l #	68
56) Ethyl methacrylate	10.906	69	78	0.654	ug/l #	24
57) 1,3-Dichloropropane	11.188	76	3853	0.893	ug/l #	42
59) 2-Hexanone	11.188	43	53495	18.122	ug/l #	53
71) Bromoform	12.829	173	1170	0.605	ug/l #	1
74) N-amyl acetate	12.500	43	935	0.246	ug/l #	52
76) 1,2,3-Trichloropropane	12.829	75	87147	26.758	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	87147	73.215	ug/l #	8

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

Quant Time: Aug 14 04:05:23 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

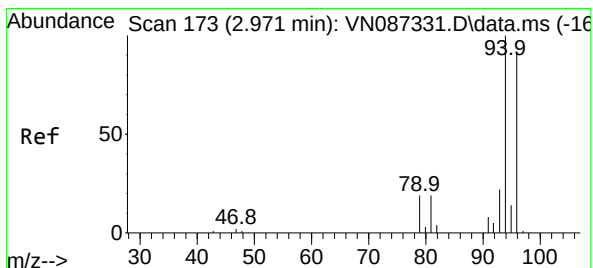
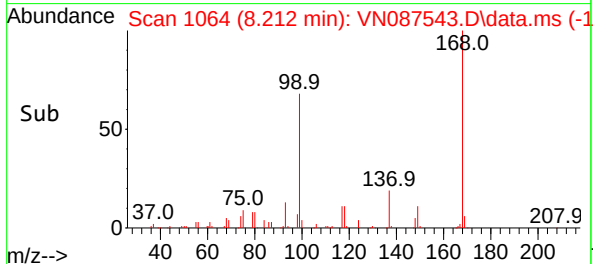
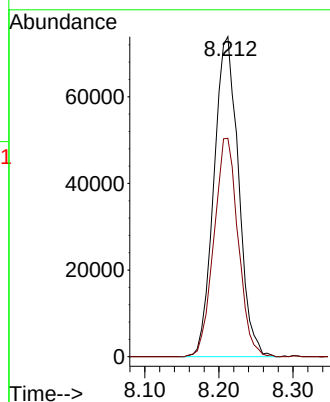
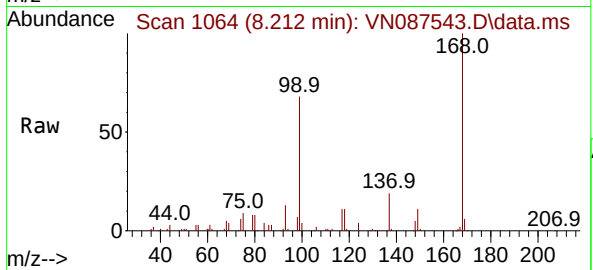




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN087543.D
Acq: 13 Aug 2025 18:12

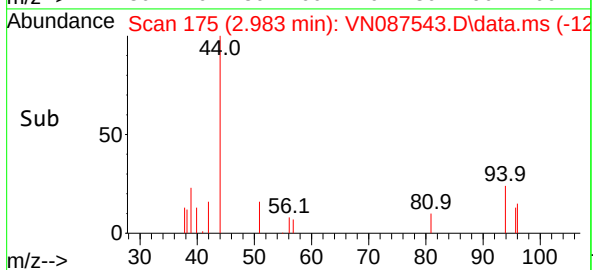
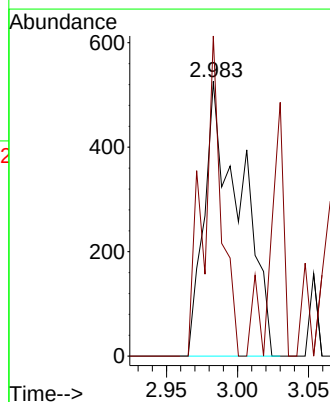
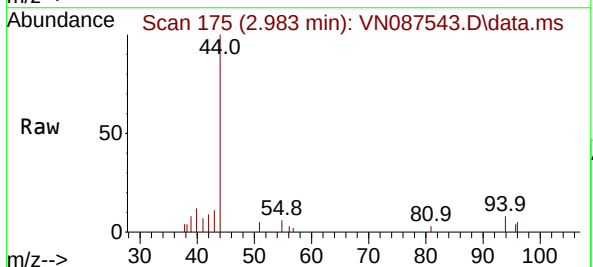
Instrument :
MSVOA_N
ClientSampleId :

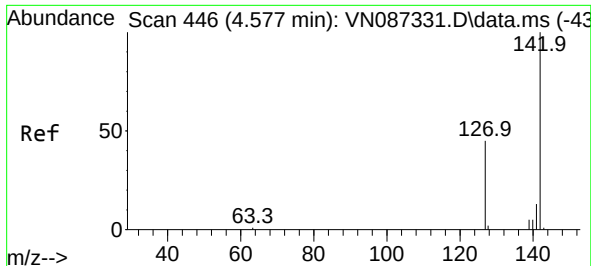
Tgt Ion:168 Resp: 170102
Ion Ratio Lower Upper
168 100
99 68.3 47.9 71.9



#5
Bromomethane
Concen: 0.802 ug/l
RT: 2.983 min Scan# 175
Delta R.T. 0.012 min
Lab File: VN087543.D
Acq: 13 Aug 2025 18:12

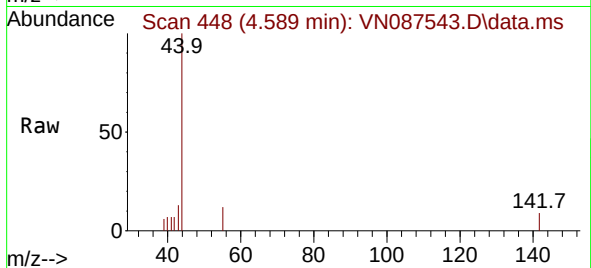
Tgt Ion: 94 Resp: 938
Ion Ratio Lower Upper
94 100
96 116.5 73.4 110.2#



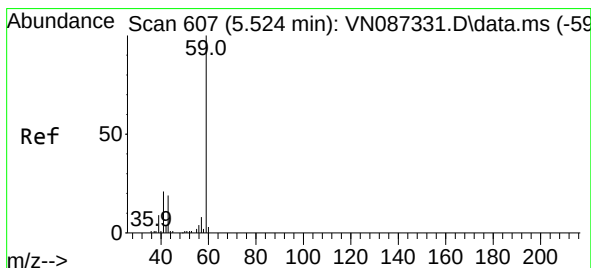
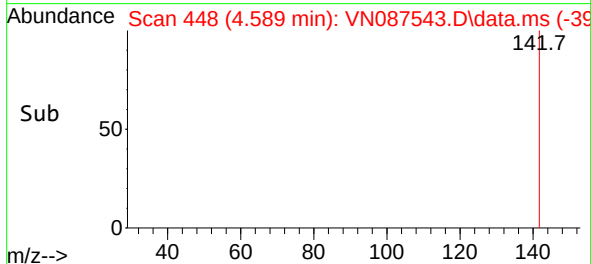
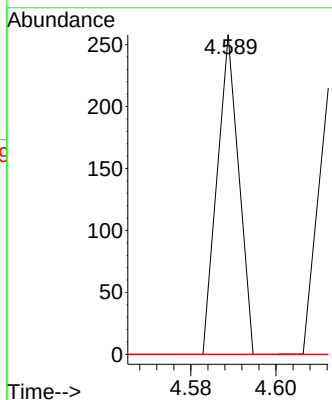


#10
Methyl Iodide
Concen: 5.677 ug/l
RT: 4.589 min Scan# 446
Delta R.T. 0.012 min
Lab File: VN087543.D
Acq: 13 Aug 2025 18:12

Instrument :
MSVOA_N
ClientSampleId :

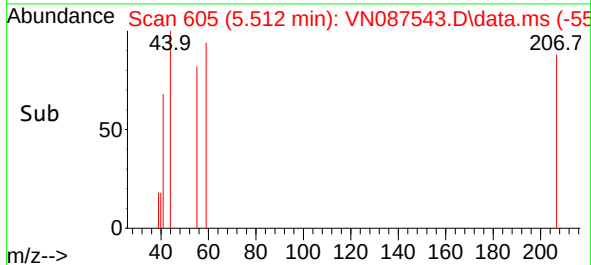
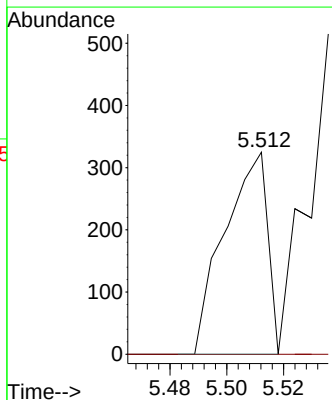
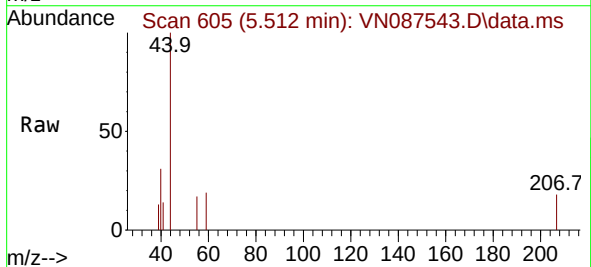


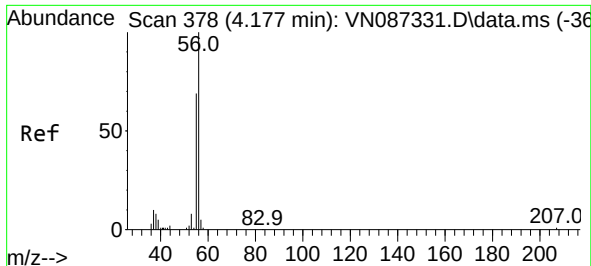
Tgt Ion:142 Resp: 91
Ion Ratio Lower Upper
142 100
127 0.0 35.7 53.5#
141 0.0 10.4 15.6#



#11
Tert butyl alcohol
Concen: 0.622 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.012 min
Lab File: VN087543.D
Acq: 13 Aug 2025 18:12

Tgt Ion: 59 Resp: 341
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

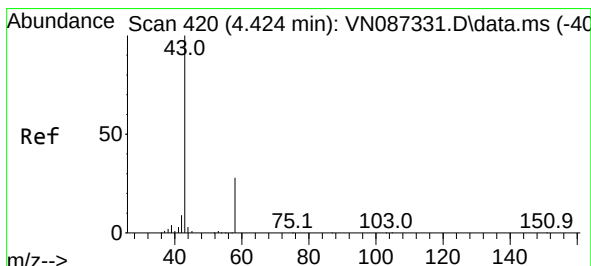
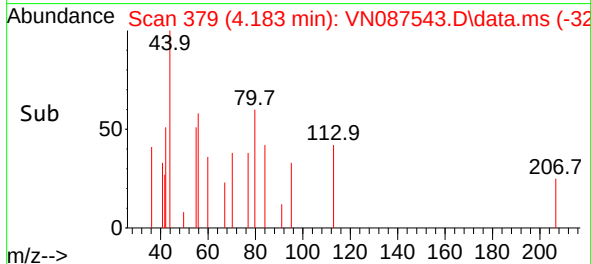
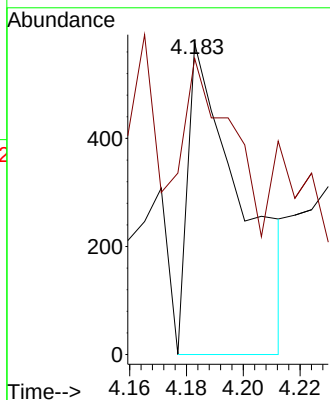
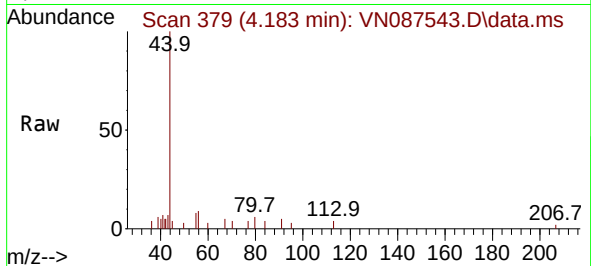




#13
Acrolein
Concen: 1.712 ug/l
RT: 4.183 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN087543.D
Acq: 13 Aug 2025 18:12

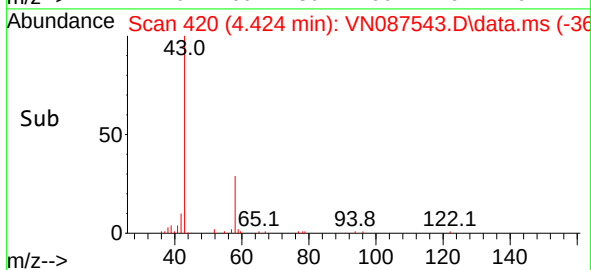
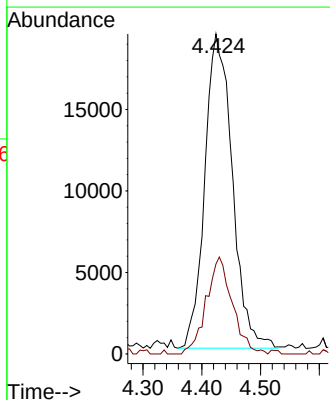
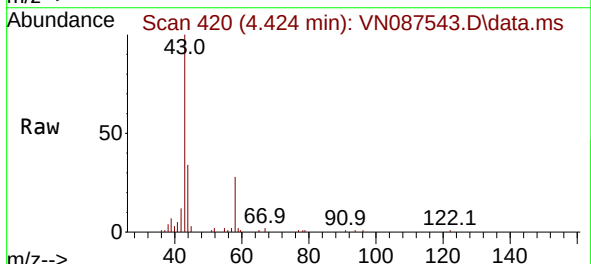
Instrument :
MSVOA_N
ClientSampleId :

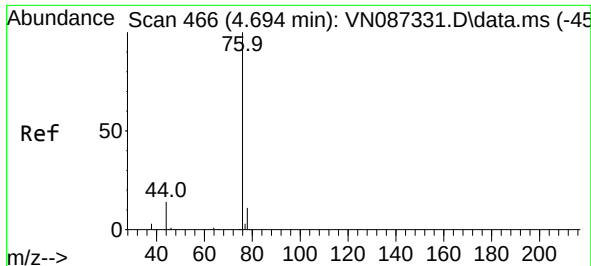
Tgt Ion: 56 Resp: 753
Ion Ratio Lower Upper
56 100
55 55.6 56.2 84.4#



#16
Acetone
Concen: 46.364 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN087543.D
Acq: 13 Aug 2025 18:12

Tgt Ion: 43 Resp: 62744
Ion Ratio Lower Upper
43 100
58 28.6 22.3 33.5

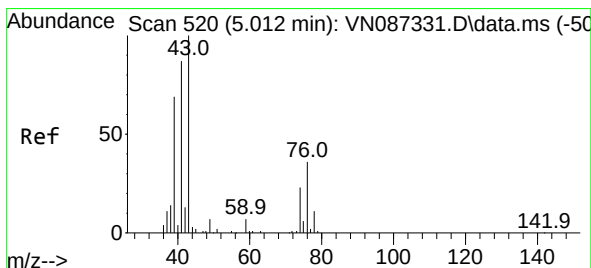
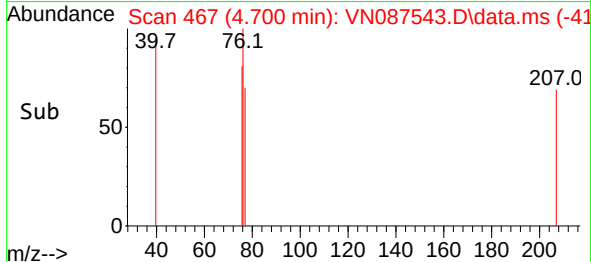
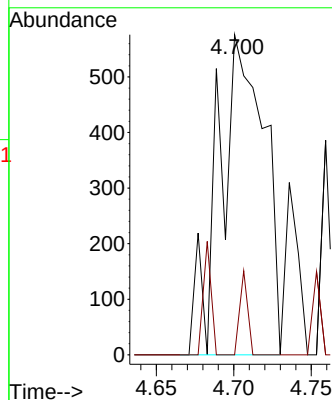
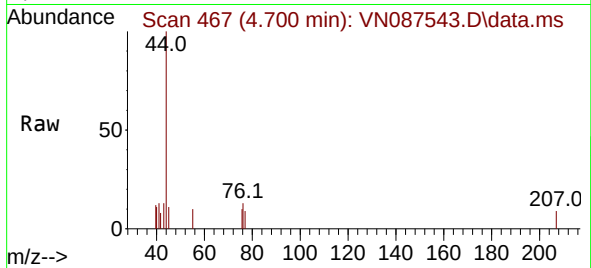




#17
Carbon Disulfide
Concen: 0.204 ug/l
RT: 4.700 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087543.D
Acq: 13 Aug 2025 18:12

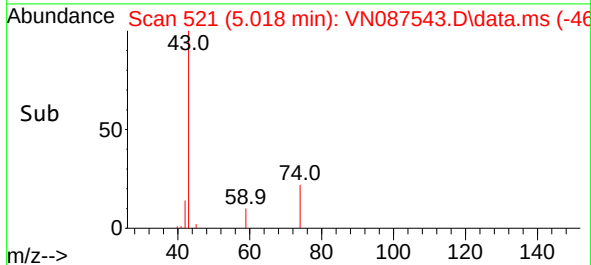
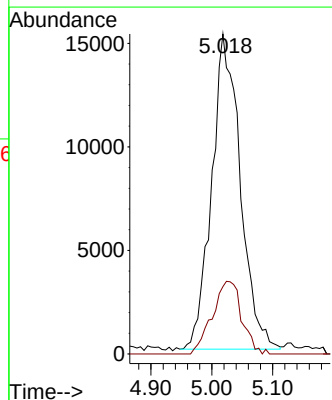
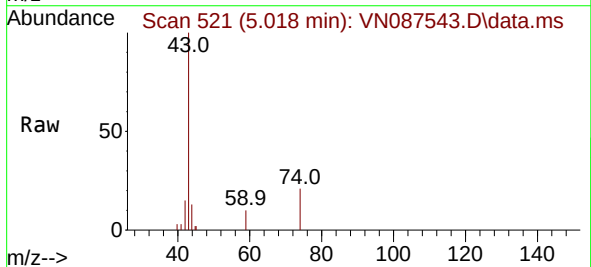
Instrument :
MSVOA_N
ClientSampleId :

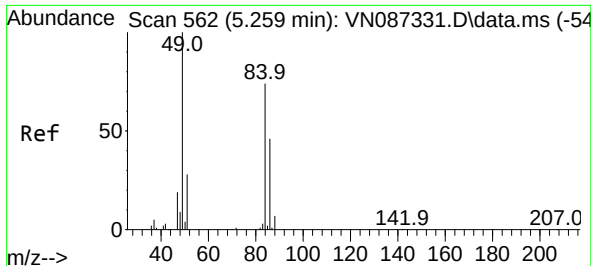
Tgt Ion: 76 Resp: 1172
Ion Ratio Lower Upper
76 100
78 0.0 8.6 13.0#



#18
Methyl Acetate
Concen: 14.587 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN087543.D
Acq: 13 Aug 2025 18:12

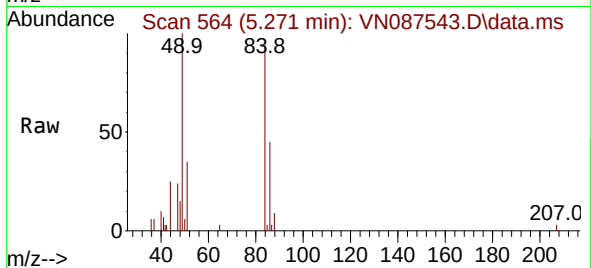
Tgt Ion: 43 Resp: 49596
Ion Ratio Lower Upper
43 100
74 23.7 17.8 26.6



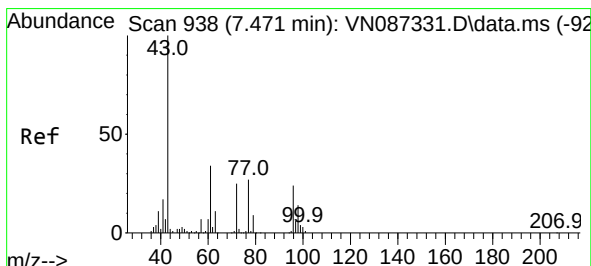
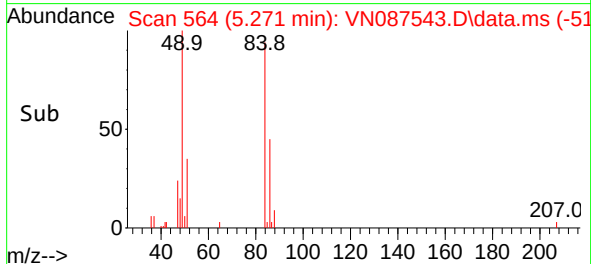
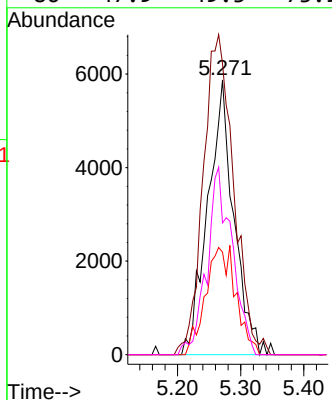


#20
Methylene Chloride
Concen: 6.840 ug/l
RT: 5.271 min Scan# 50
Delta R.T. 0.012 min
Lab File: VN087543.D
Acq: 13 Aug 2025 18:12

Instrument :
MSVOA_N
ClientSampleId :

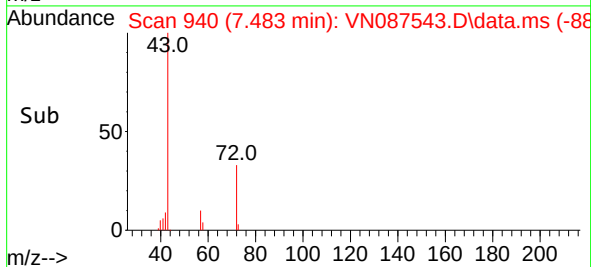
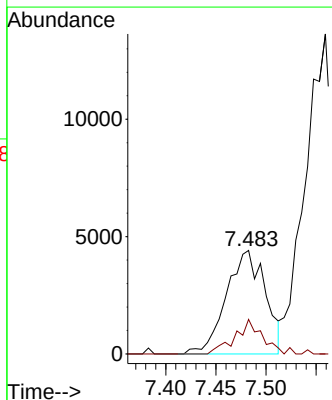
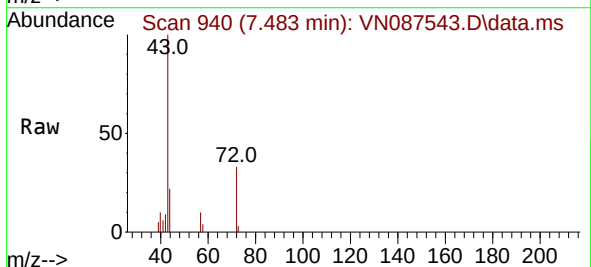


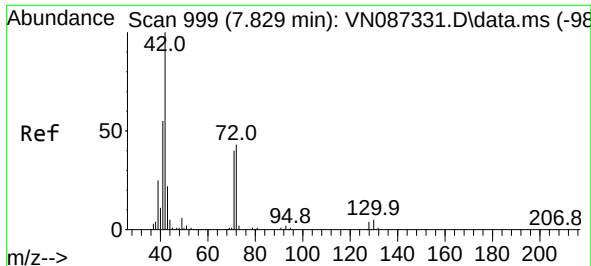
Tgt Ion:	84	Resp:	16913
Ion	Ratio	Lower	Upper
84	100		
49	105.9	107.5	161.3#
51	37.3	30.2	45.2
86	47.9	49.3	73.9#



#25
2-Butanone
Concen: 5.712 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.012 min
Lab File: VN087543.D
Acq: 13 Aug 2025 18:12

Tgt Ion:	43	Resp:	11944
Ion	Ratio	Lower	Upper
43	100		
72	36.8	19.6	29.4#





#29

Tetrahydrofuran

Concen: 1.821 ug/l

RT: 7.830 min Scan# 999

Delta R.T. 0.000 min

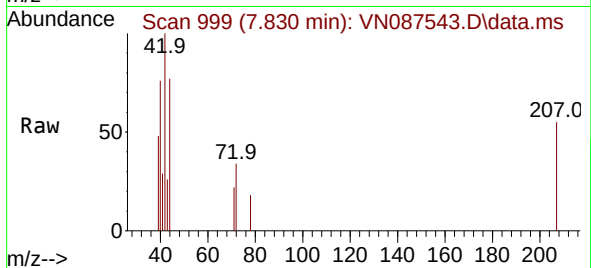
Lab File: VN087543.D

Acq: 13 Aug 2025 18:12

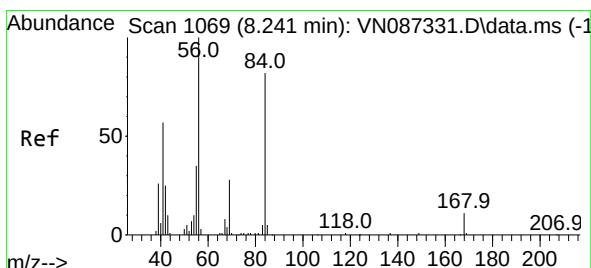
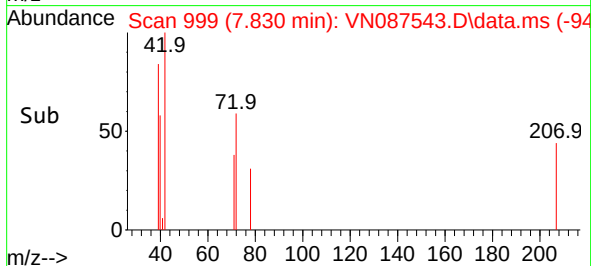
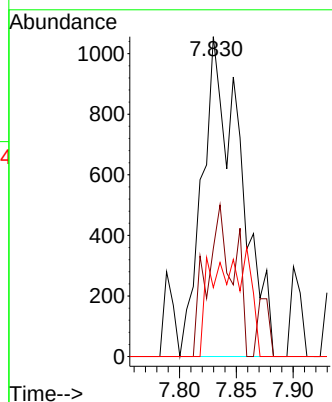
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	2474
Ion Ratio	Lower	Upper	
42	100		
72	33.1	33.4	50.0#
71	15.8	31.2	46.8#



#31

Cyclohexane

Concen: 1.445 ug/l

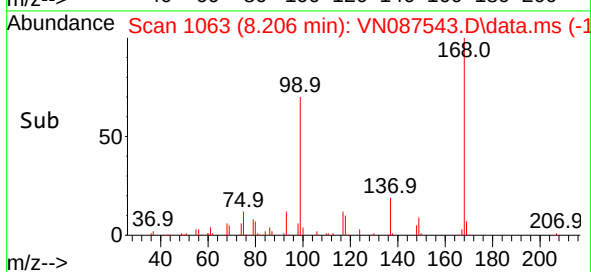
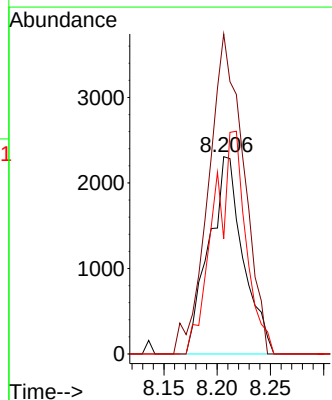
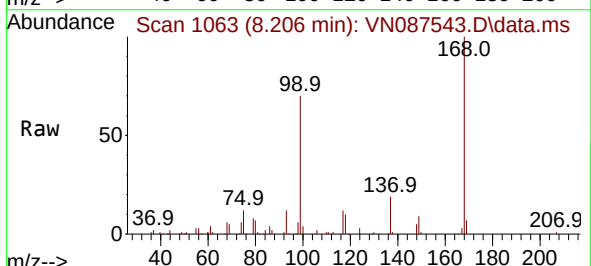
RT: 8.206 min Scan# 1063

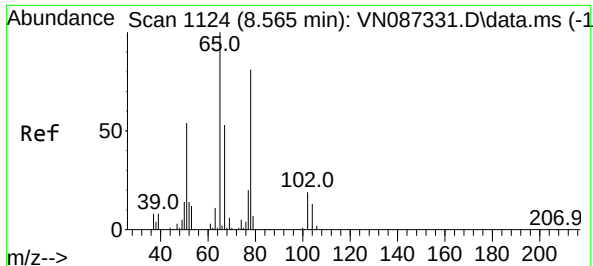
Delta R.T. -0.035 min

Lab File: VN087543.D

Acq: 13 Aug 2025 18:12

Tgt Ion:	56	Resp:	5129
Ion Ratio	Lower	Upper	
56	100		
69	162.1	22.7	34.1#
84	58.4	65.8	98.6#





#33

1,2-Dichloroethane-d4

Concen: 57.511 ug/l

RT: 8.565 min Scan# 1124

Delta R.T. 0.000 min

Lab File: VN087543.D

Acq: 13 Aug 2025 18:12

Instrument :

MSVOA_N

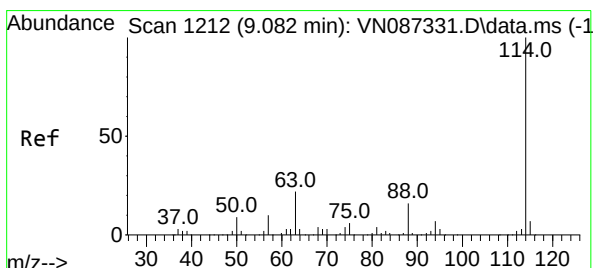
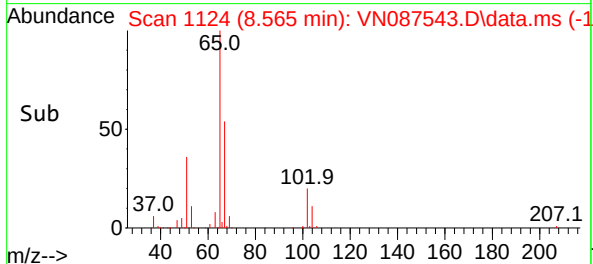
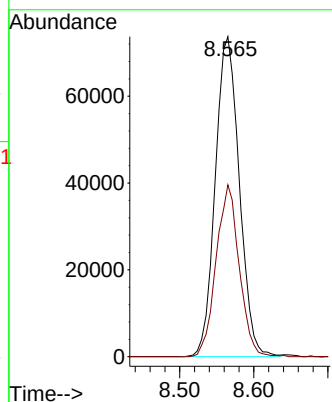
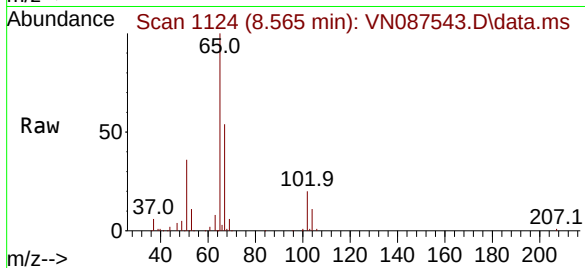
ClientSampleId :

Tgt Ion: 65 Resp: 165991

Ion Ratio Lower Upper

65 100

67 51.6 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.001 min

Lab File: VN087543.D

Acq: 13 Aug 2025 18:12

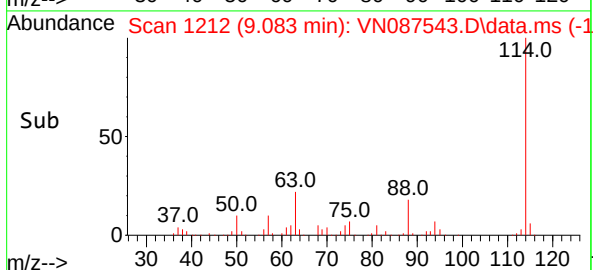
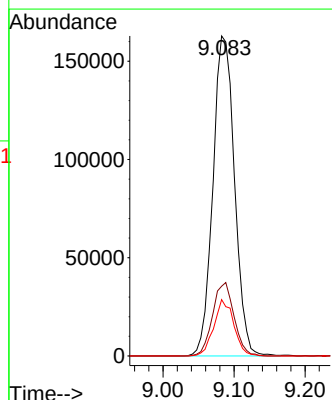
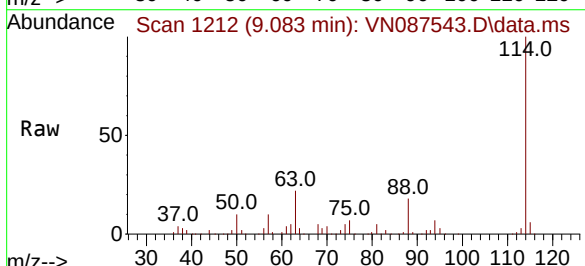
Tgt Ion: 114 Resp: 344303

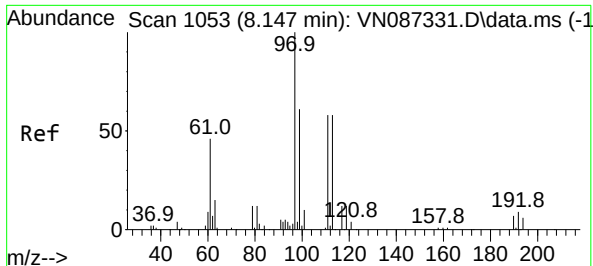
Ion Ratio Lower Upper

114 100

63 21.8 0.0 44.6

88 17.6 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.357 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087543.D

Acq: 13 Aug 2025 18:12

Instrument :

MSVOA_N

ClientSampleId :

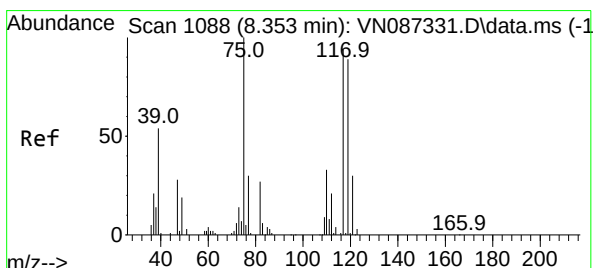
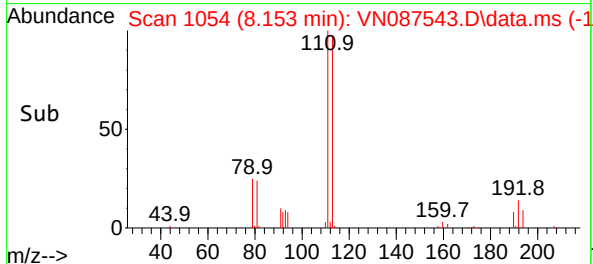
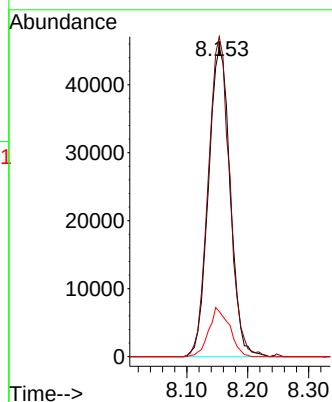
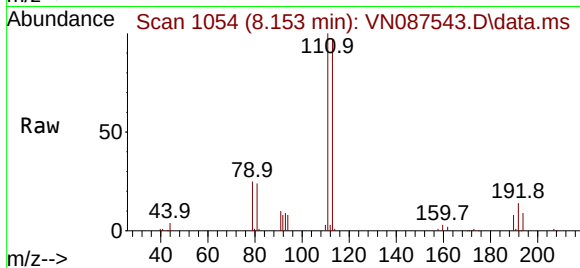
Tgt Ion:113 Resp: 112473

Ion Ratio Lower Upper

113 100

111 102.1 82.5 123.7

192 15.2 13.7 20.5



#36

1,1-Dichloropropene

Concen: 5.524 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087543.D

Acq: 13 Aug 2025 18:12

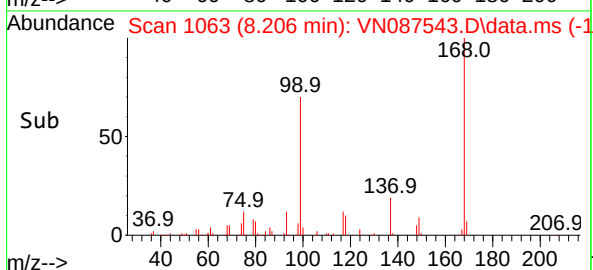
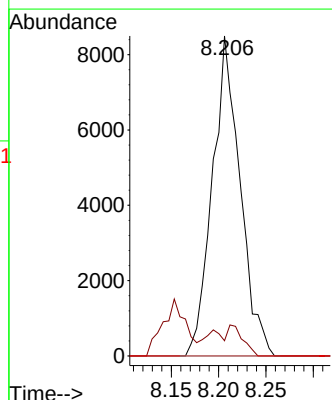
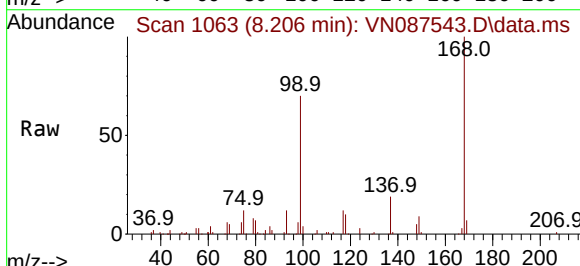
Tgt Ion: 75 Resp: 17334

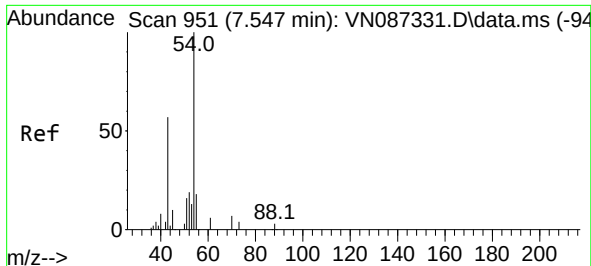
Ion Ratio Lower Upper

75 100

110 5.2 16.7 50.1#

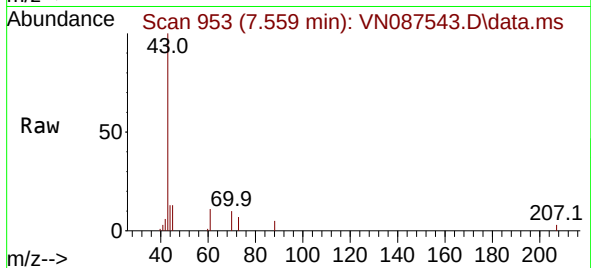
77 0.0 25.2 37.8#



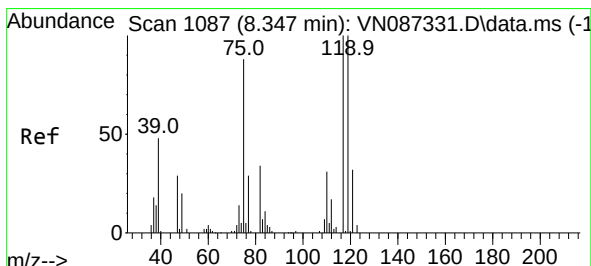
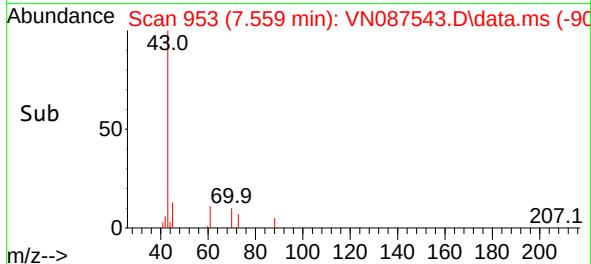
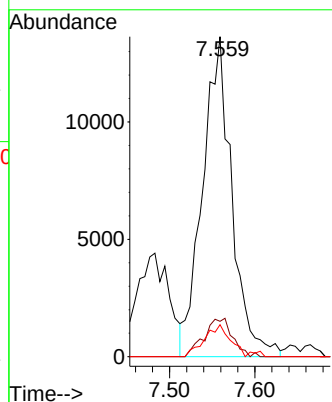


#37
Ethyl Acetate
Concen: 7.162 ug/l
RT: 7.559 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN087543.D
Acq: 13 Aug 2025 18:12

Instrument :
MSVOA_N
ClientSampleId :

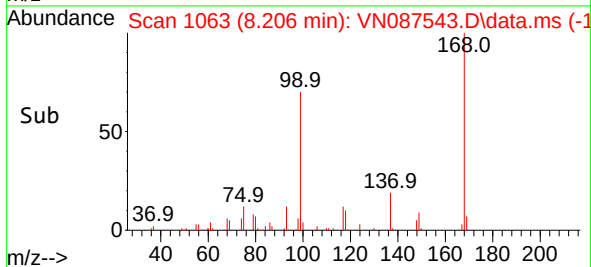
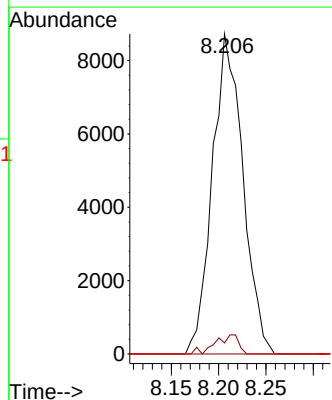
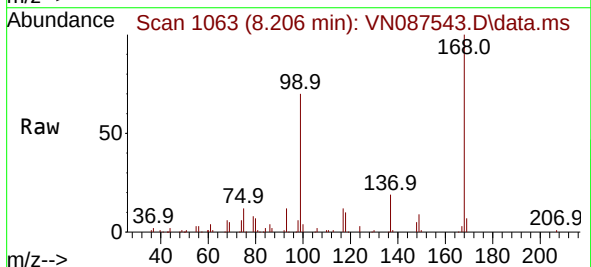


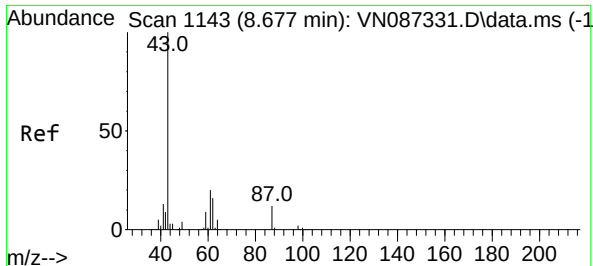
Tgt Ion: 43 Resp: 32457
Ion Ratio Lower Upper
43 100
61 11.7 10.9 16.3
70 8.8 7.4 11.0



#38
Carbon Tetrachloride
Concen: 5.662 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.141 min
Lab File: VN087543.D
Acq: 13 Aug 2025 18:12

Tgt Ion: 117 Resp: 19571
Ion Ratio Lower Upper
117 100
119 3.4 80.2 120.2#
121 0.0 25.4 38.2#





#43

Isopropyl Acetate

Concen: 3.001 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. -0.000 min

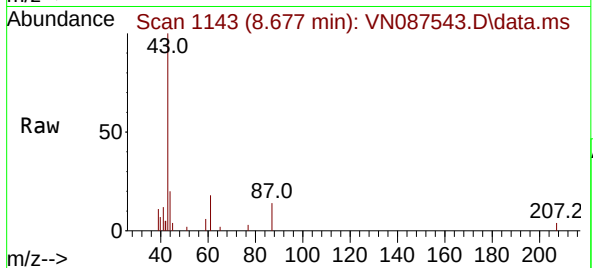
Lab File: VN087543.D

Acq: 13 Aug 2025 18:12

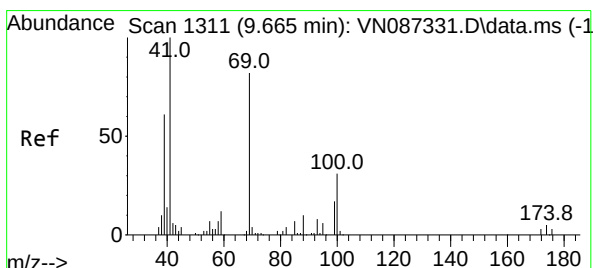
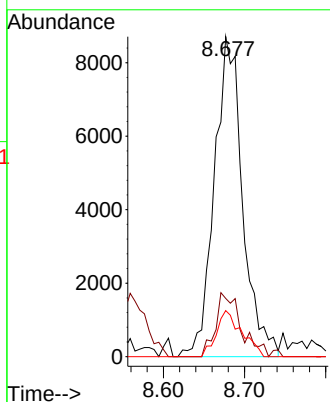
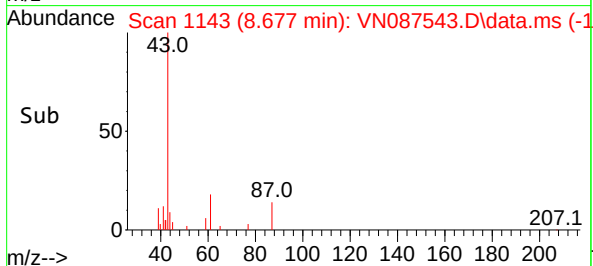
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	21114
Ion Ratio	100	Lower	Upper
61	18.5	19.8	29.8#
87	12.9	9.8	14.6



#48

Methyl methacrylate

Concen: 49.121 ug/l

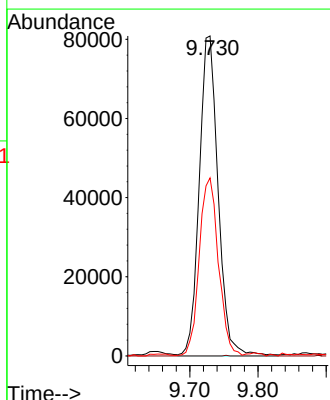
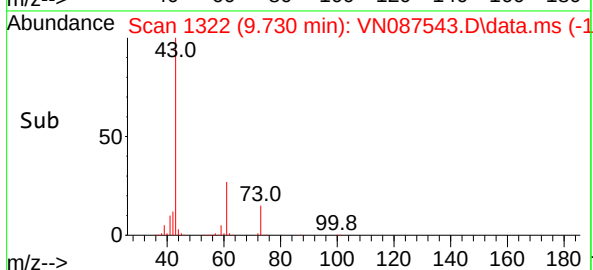
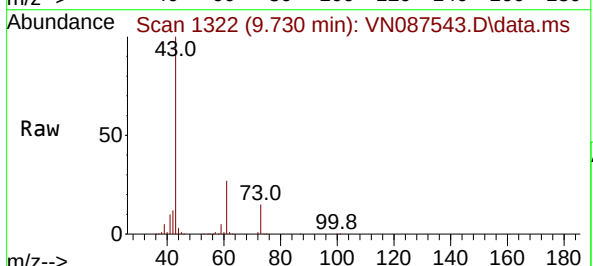
RT: 9.730 min Scan# 1322

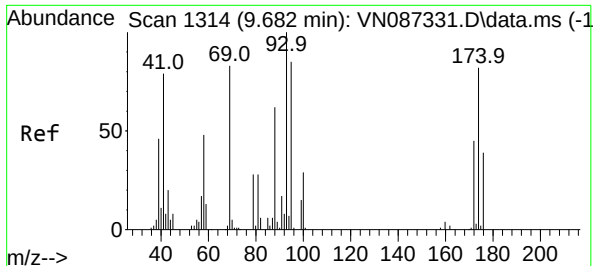
Delta R.T. 0.065 min

Lab File: VN087543.D

Acq: 13 Aug 2025 18:12

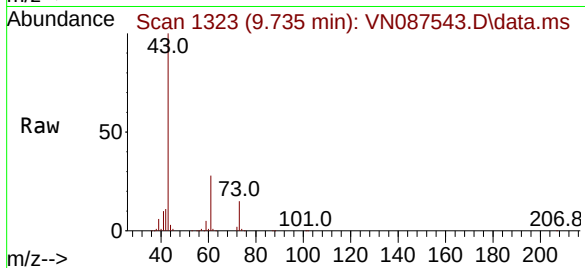
Tgt Ion:	41	Resp:	155565
Ion Ratio	100	Lower	Upper
69	0.0	64.1	96.1#
39	55.9	45.5	68.3



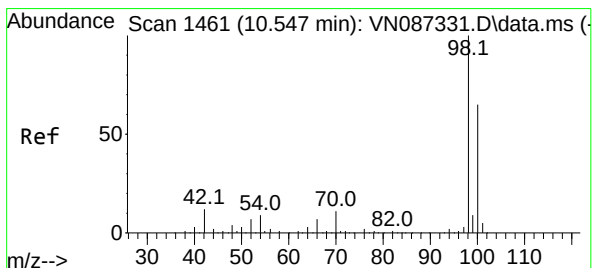
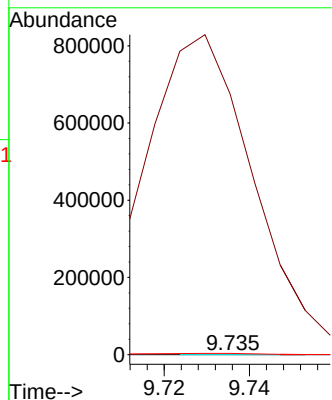
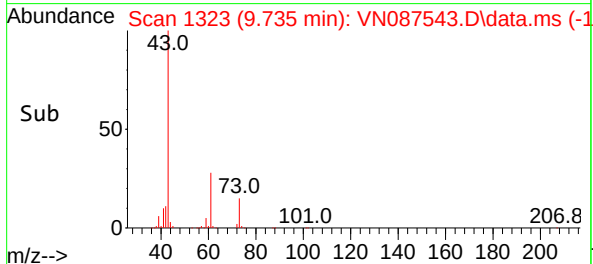


#49
1,4-Dioxane
Concen: 1.464 ug/l
RT: 9.735 min Scan# 11
Delta R.T. 0.053 min
Lab File: VN087543.D
Acq: 13 Aug 2025 18:12

Instrument :
MSVOA_N
ClientSampleId :

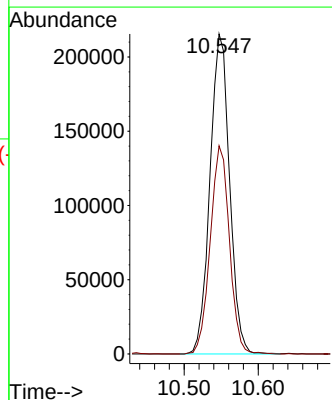
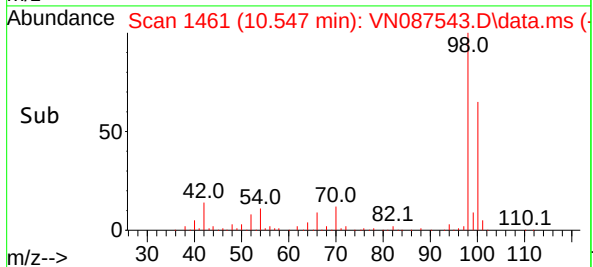
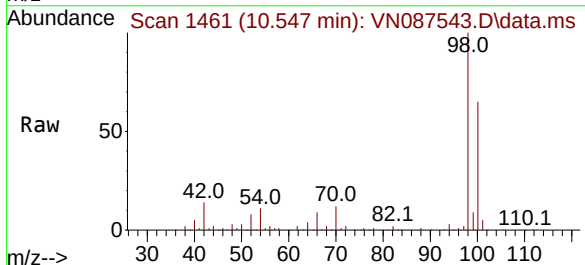


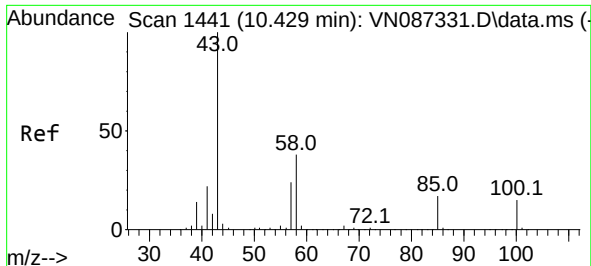
Tgt Ion: 88 Resp: 71
Ion Ratio Lower Upper
88 100
43 2189046.5 0.0 0.0#
58 9804.2 61.1 91.7#



#50
Toluene-d8
Concen: 46.668 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087543.D
Acq: 13 Aug 2025 18:12

Tgt Ion: 98 Resp: 395365
Ion Ratio Lower Upper
98 100
100 63.7 52.1 78.1

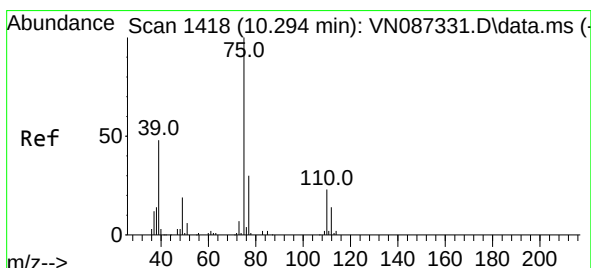
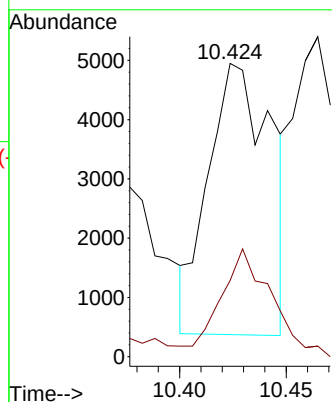
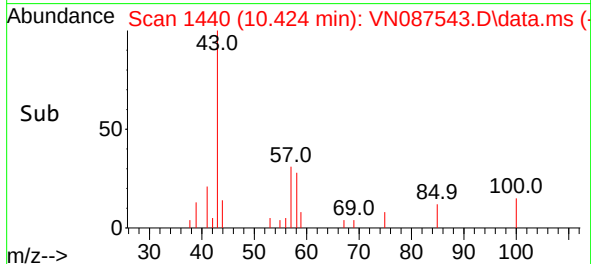
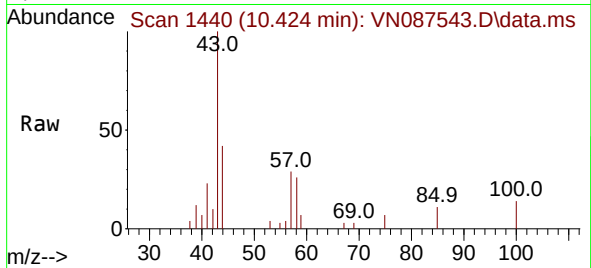




#51
4-Methyl-2-Pentanone
Concen: 2.103 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.005 min
Lab File: VN087543.D
Acq: 13 Aug 2025 18:12

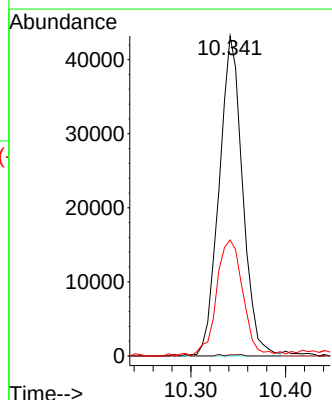
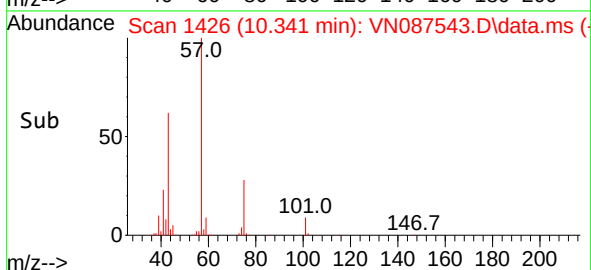
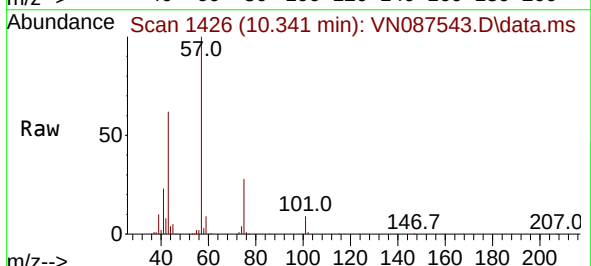
Instrument :
MSVOA_N
ClientSampleId :

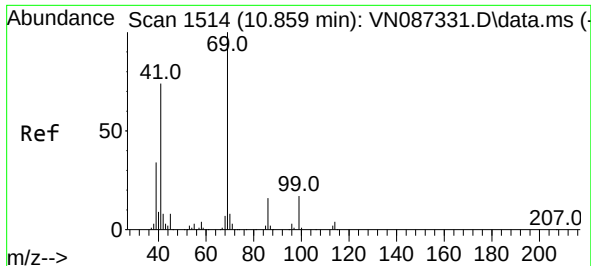
Tgt Ion: 43 Resp: 9356
Ion Ratio Lower Upper
43 100
58 32.5 30.8 46.2



#54
cis-1,3-Dichloropropene
Concen: 18.338 ug/l
RT: 10.341 min Scan# 1426
Delta R.T. 0.047 min
Lab File: VN087543.D
Acq: 13 Aug 2025 18:12

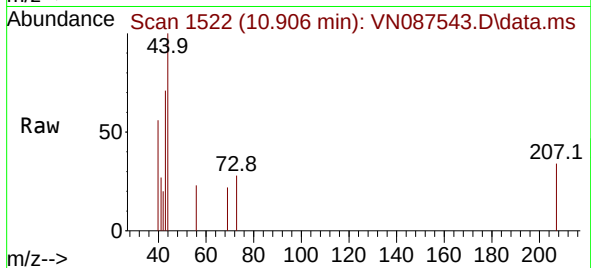
Tgt Ion: 75 Resp: 74500
Ion Ratio Lower Upper
75 100
77 0.4 24.2 36.2#
39 35.7 38.4 57.6#



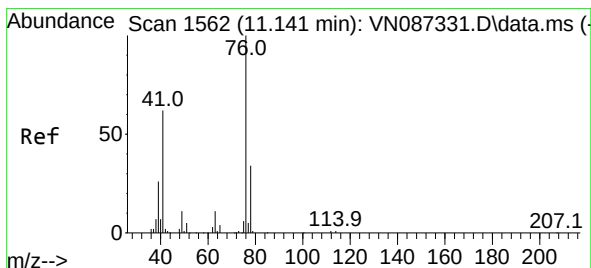
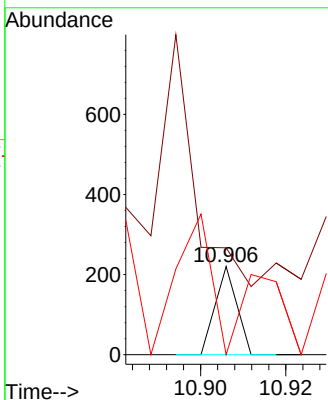
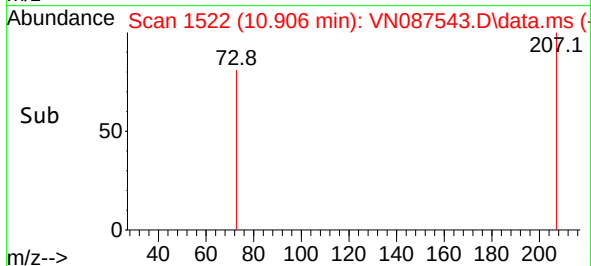


#56
Ethyl methacrylate
Concen: 0.654 ug/l
RT: 10.906 min Scan# 11
Delta R.T. 0.047 min
Lab File: VN087543.D
Acq: 13 Aug 2025 18:12

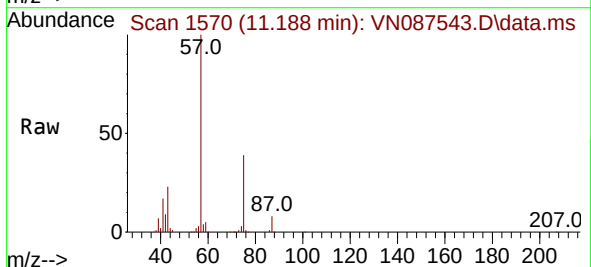
Instrument :
MSVOA_N
ClientSampleId :



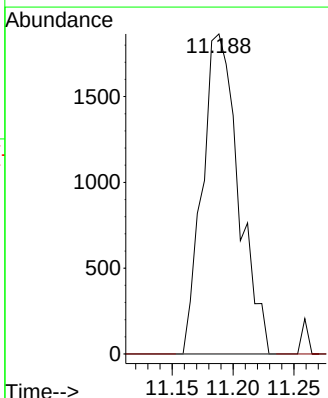
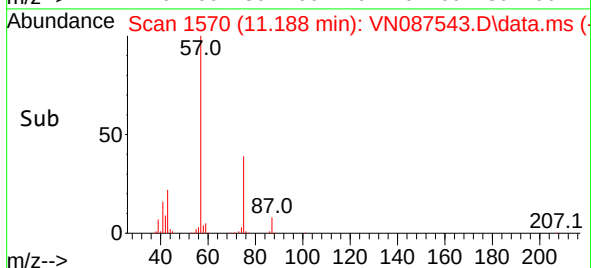
Tgt Ion: 69 Resp: 78
Ion Ratio Lower Upper
69 100
41 0.0 55.1 82.7#
39 0.0 27.9 41.9#

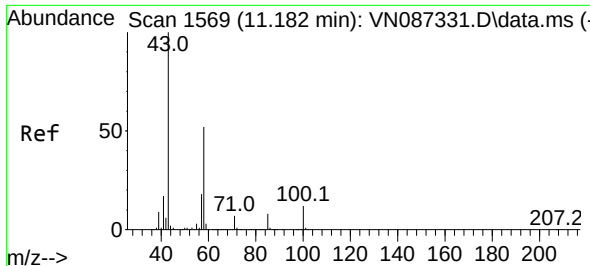


#57
1,3-Dichloropropane
Concen: 0.893 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. 0.047 min
Lab File: VN087543.D
Acq: 13 Aug 2025 18:12



Tgt Ion: 76 Resp: 3853
Ion Ratio Lower Upper
76 100
78 0.0 26.0 39.0#

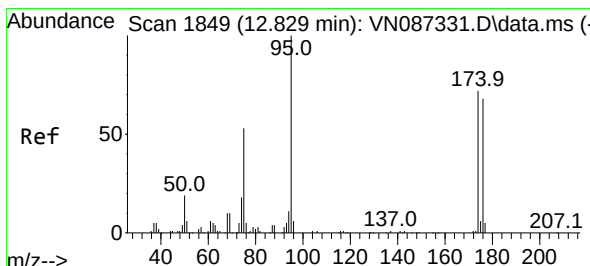
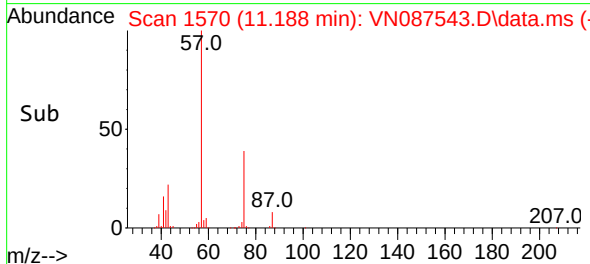
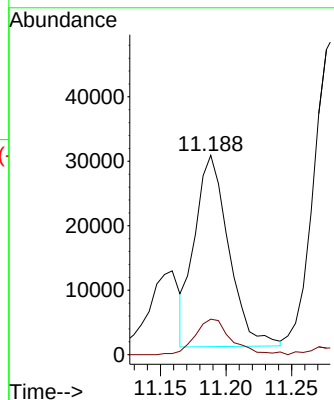
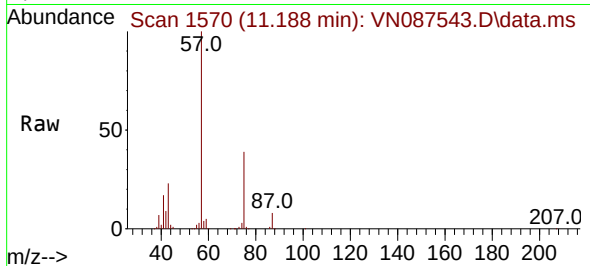




#59
2-Hexanone
Concen: 18.122 ug/l
RT: 11.188 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN087543.D
Acq: 13 Aug 2025 18:12

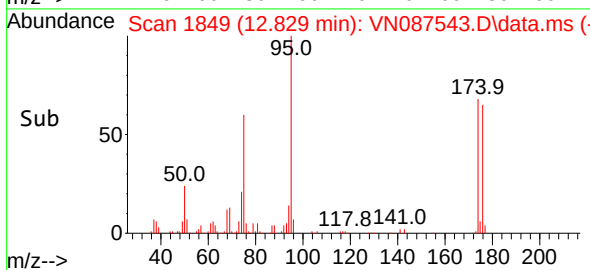
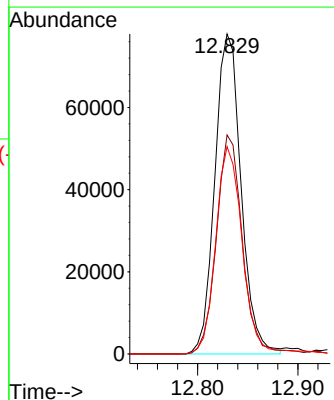
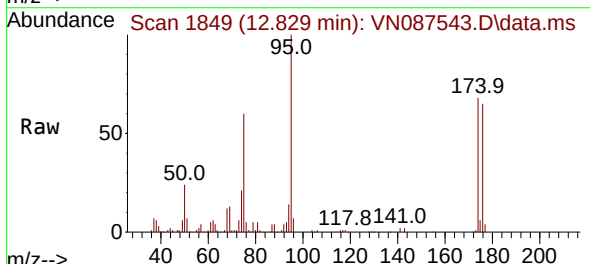
Instrument :
MSVOA_N
ClientSampleId :

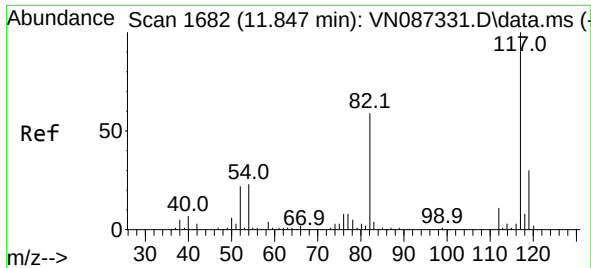
Tgt Ion: 43 Resp: 53495
Ion Ratio Lower Upper
43 100
58 19.8 26.7 80.0#



#62
4-Bromofluorobenzene
Concen: 45.263 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087543.D
Acq: 13 Aug 2025 18:12

Tgt Ion: 95 Resp: 141673
Ion Ratio Lower Upper
95 100
174 67.6 0.0 149.4
176 66.0 0.0 141.2

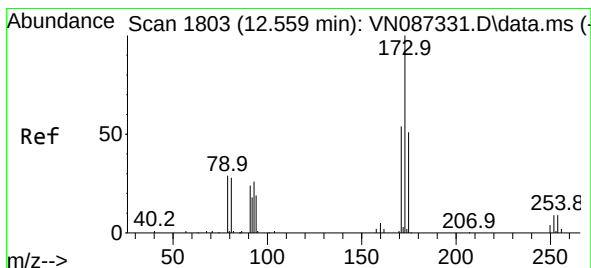
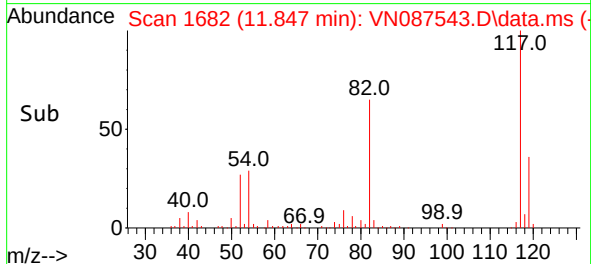
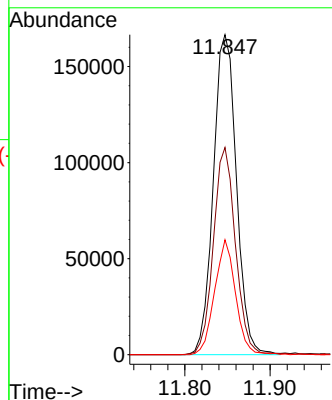
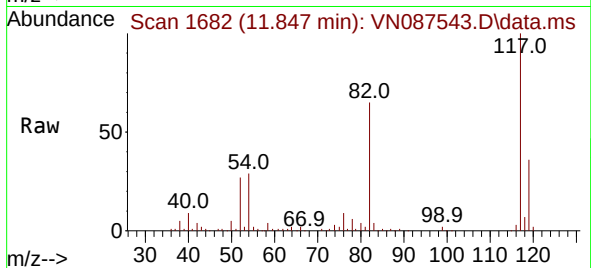




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN087543.D
Acq: 13 Aug 2025 18:12

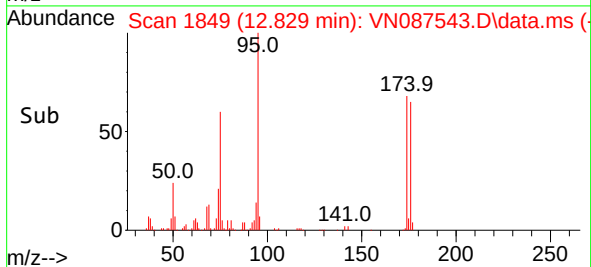
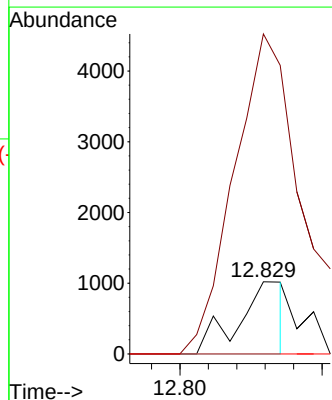
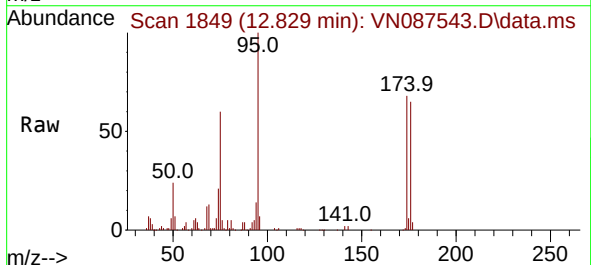
Instrument :
MSVOA_N
ClientSampleId :

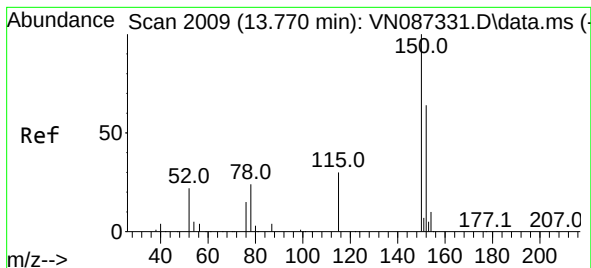
Tgt Ion:117 Resp: 313708
Ion Ratio Lower Upper
117 100
82 64.7 47.4 71.2
119 35.9 23.8 35.8#



#71
Bromoform
Concen: 0.605 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.271 min
Lab File: VN087543.D
Acq: 13 Aug 2025 18:12

Tgt Ion:173 Resp: 1170
Ion Ratio Lower Upper
173 100
175 469.2 24.1 72.3#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.000 min

Lab File: VN087543.D

Acq: 13 Aug 2025 18:12

Instrument :

MSVOA_N

ClientSampleId :

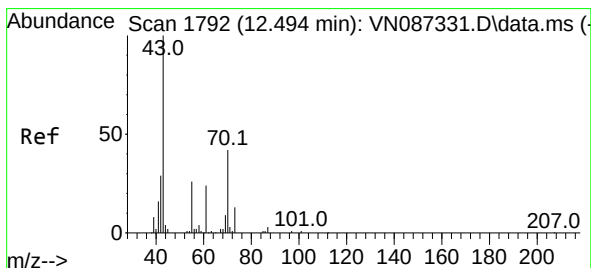
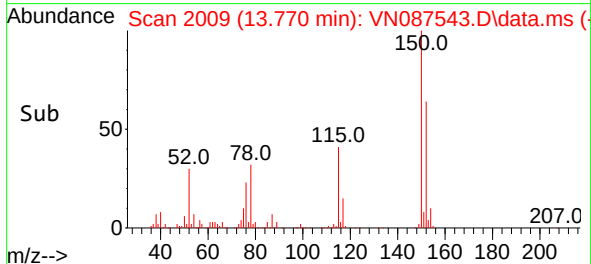
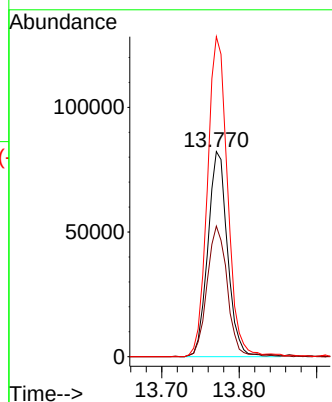
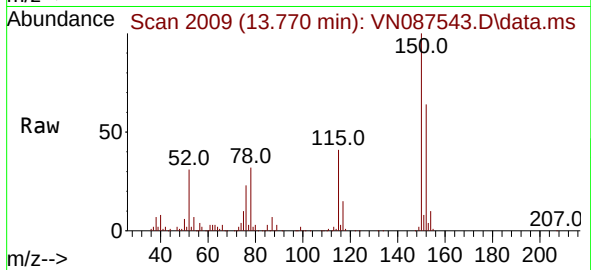
Tgt Ion:152 Resp: 145236

Ion Ratio Lower Upper

152 100

115 65.1 31.1 93.5

150 158.6 0.0 349.0



#74

N-ethyl acetate

Concen: 0.246 ug/l

RT: 12.500 min Scan# 1793

Delta R.T. 0.006 min

Lab File: VN087543.D

Acq: 13 Aug 2025 18:12

Tgt Ion: 43 Resp: 935

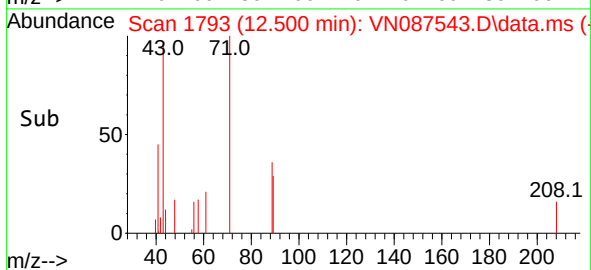
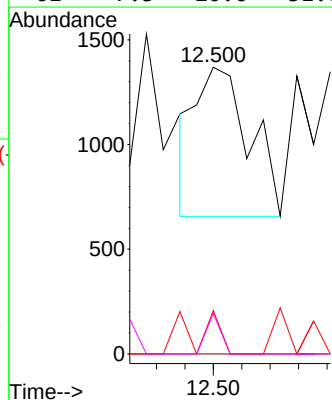
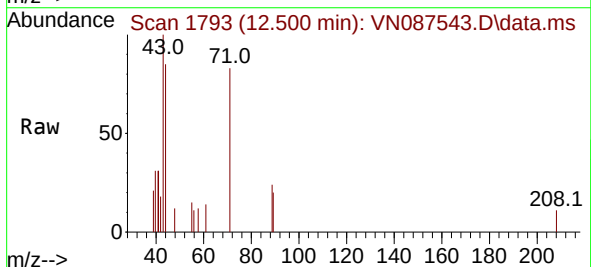
Ion Ratio Lower Upper

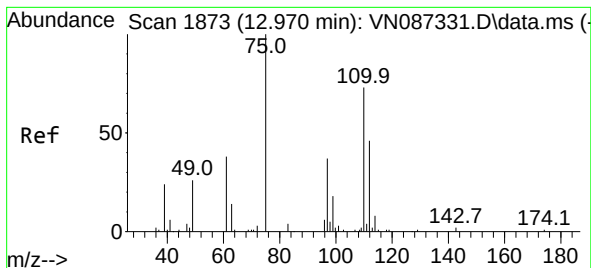
43 100

70 0.0 37.6 56.4#

55 15.4 19.6 29.4#

61 7.3 20.6 31.0#





#76

1,2,3-Trichloropropane

Concen: 26.758 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087543.D

Acq: 13 Aug 2025 18:12

Instrument :

MSVOA_N

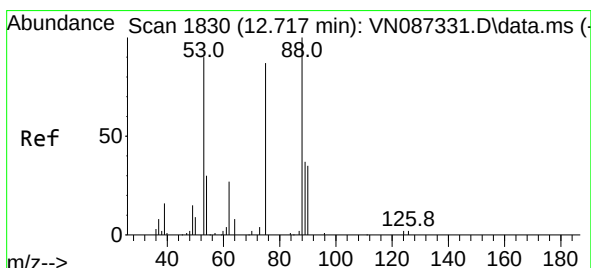
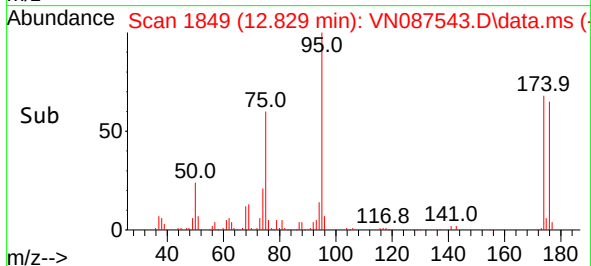
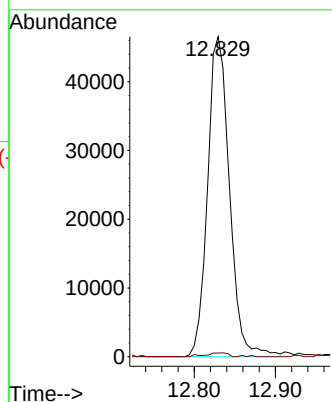
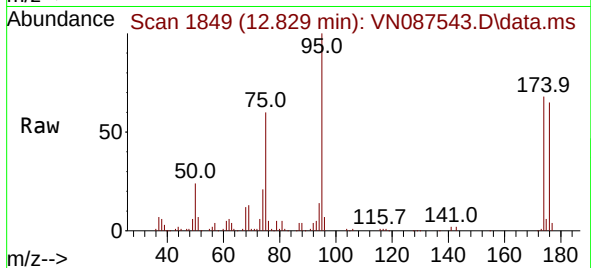
ClientSampleId :

Tgt Ion: 75 Resp: 87147

Ion Ratio Lower Upper

75 100

77 1.2 94.5 283.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.215 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.112 min

Lab File: VN087543.D

Acq: 13 Aug 2025 18:12

Tgt Ion: 75 Resp: 87147

Ion Ratio Lower Upper

75 100

53 0.1 83.5 125.3#

89 0.3 38.4 57.6#

