

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081325\
 Data File : VN087540.D
 Acq On : 13 Aug 2025 17:05
 Operator : JC\MD
 Sample : Q2832-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 14 04:03:57 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)

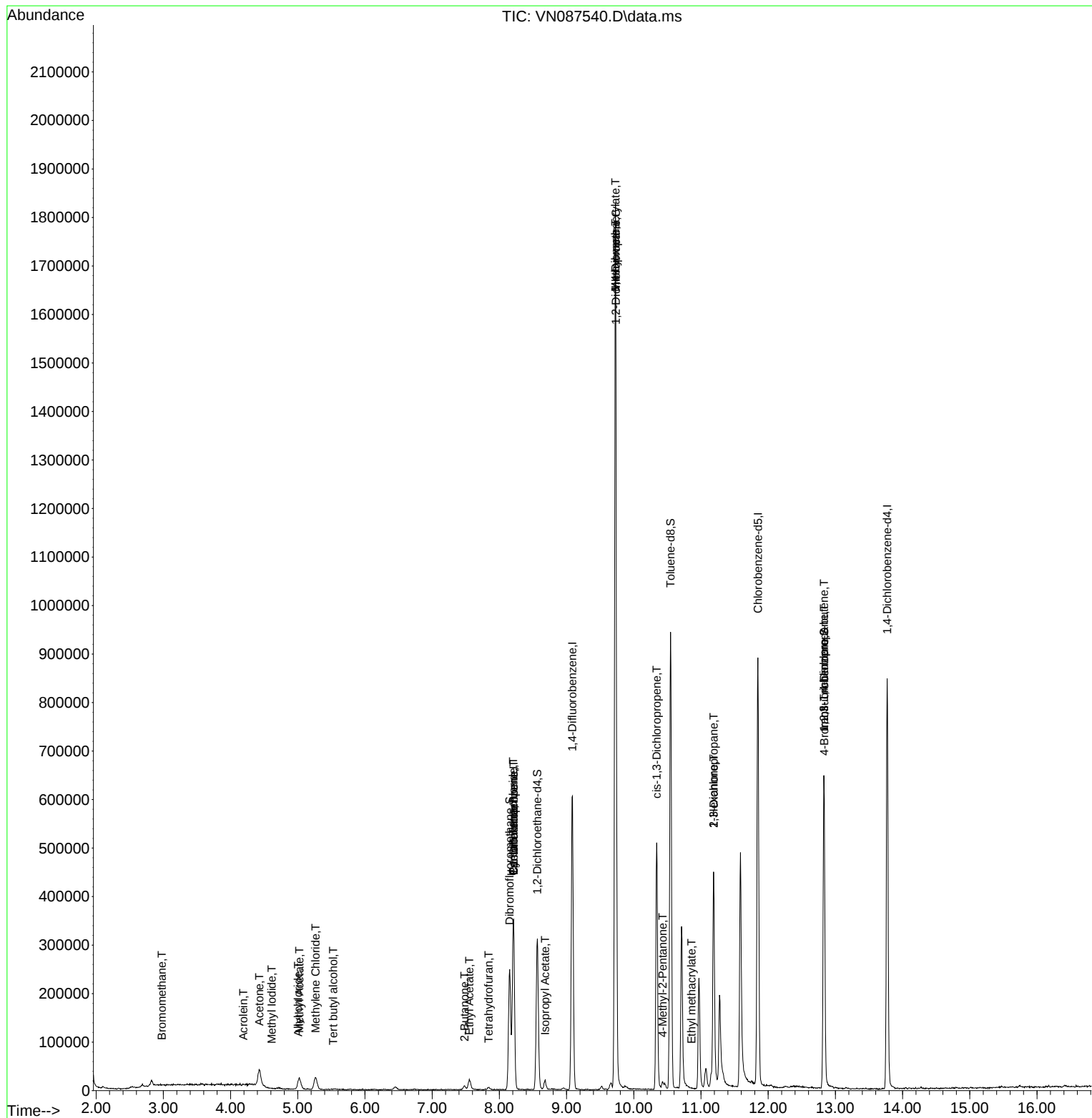
Internal Standards						
1) Pentafluorobenzene	8.212	168	236825	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	9.088	114	497884	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	479659	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	216762	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	262286	65.271	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 130.540%#			
35) Dibromofluoromethane	8.153	113	173231	50.440	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.880%			
50) Toluene-d8	10.547	98	616603	50.331	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.660%			
62) 4-Bromofluorobenzene	12.835	95	232636	51.398	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.800%			
Target Compounds						
						Qvalue
5) Bromomethane	2.977	94	490	0.301	ug/l	# 63
10) Methyl Iodide	4.612	142	58	5.652	ug/l	# 40
11) Tert butyl alcohol	5.530	59	417	0.547	ug/l	# 72
13) Acrolein	4.189	56	1100	1.796	ug/l	# 37
14) Allyl chloride	5.006	41	1223	0.250	ug/l	# 37
16) Acetone	4.430	43	61023	32.388	ug/l	97
18) Methyl Acetate	5.024	43	53755	11.356	ug/l	98
20) Methylene Chloride	5.265	84	18000	5.076	ug/l	87
25) 2-Butanone	7.482	43	12924	4.439	ug/l	# 77
29) Tetrahydrofuran	7.841	42	4147	2.193	ug/l	# 73
31) Cyclohexane	8.212	56	7912	1.602	ug/l	# 27
36) 1,1-Dichloropropene	8.212	75	23770	5.239	ug/l	# 50
37) Ethyl Acetate	7.553	43	35149	5.364	ug/l	# 88
38) Carbon Tetrachloride	8.206	117	27847	5.571	ug/l	# 14
43) Isopropyl Acetate	8.682	43	21906	2.153	ug/l	# 90
45) 1,2-Dichloropropane	9.735	63	2235	0.600	ug/l	# 41
48) Methyl methacrylate	9.729	41	179985	39.301	ug/l	# 47
49) 1,4-Dioxane	9.729	88	260	3.707	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.429	43	7988	1.242	ug/l	96
54) cis-1,3-Dichloropropene	10.341	75	89074	15.162	ug/l	# 69
56) Ethyl methacrylate	10.859	69	57	0.644	ug/l	# 24
57) 1,3-Dichloropropane	11.188	76	4934	0.791	ug/l	# 42
59) 2-Hexanone	11.188	43	98269	23.021	ug/l	# 46
76) 1,2,3-Trichloropropane	12.829	75	138696	28.534	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.829	75	138696	78.074	ug/l	# 8

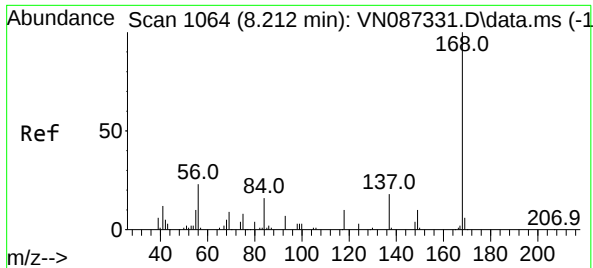
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

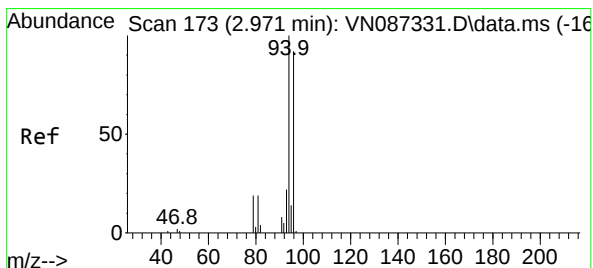
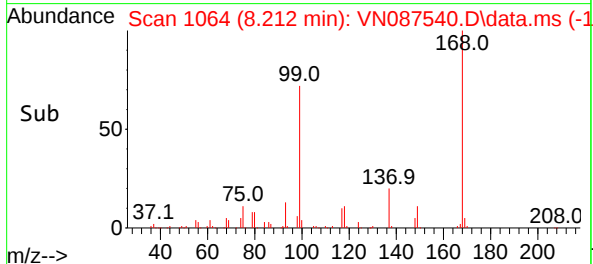
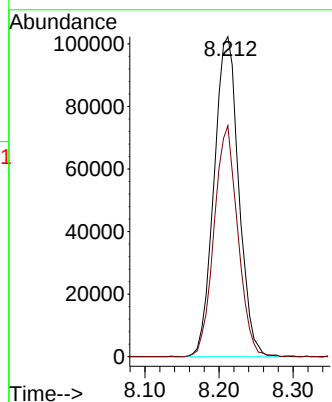
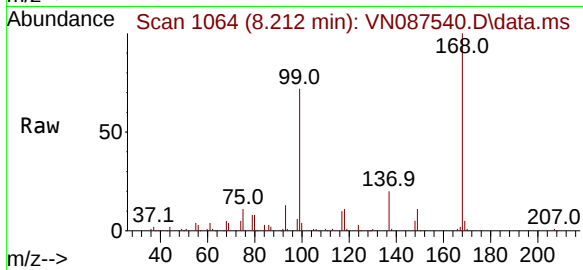




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VN087540.D
Acq: 13 Aug 2025 17:05

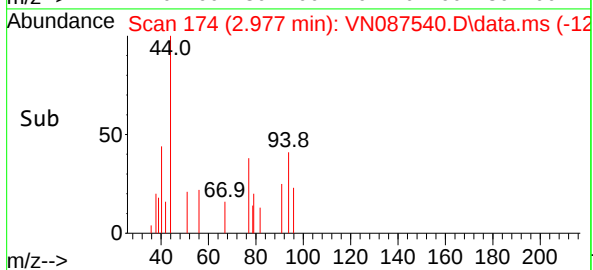
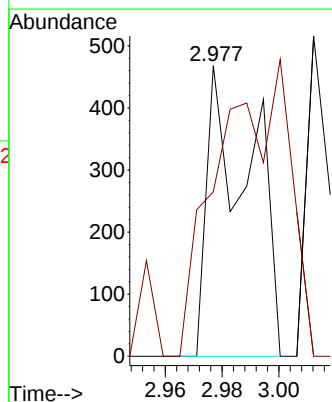
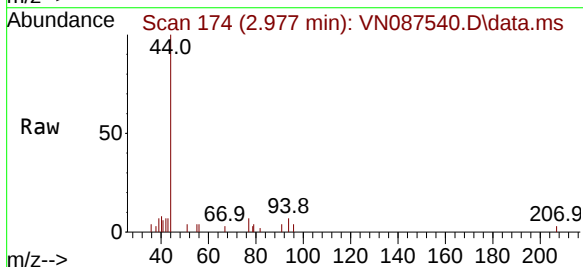
Instrument :
MSVOA_N
ClientSampleId :

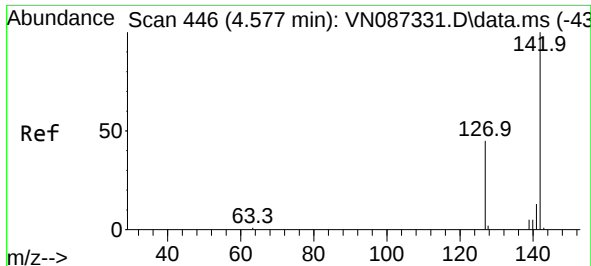
Tgt Ion:168 Resp: 236825
Ion Ratio Lower Upper
168 100
99 72.2 47.9 71.9#



#5
Bromomethane
Concen: 0.301 ug/l
RT: 2.977 min Scan# 174
Delta R.T. 0.006 min
Lab File: VN087540.D
Acq: 13 Aug 2025 17:05

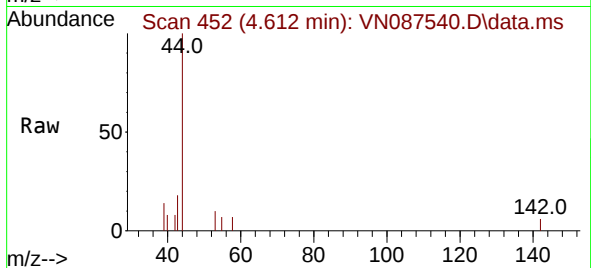
Tgt Ion: 94 Resp: 490
Ion Ratio Lower Upper
94 100
96 56.6 73.4 110.2#



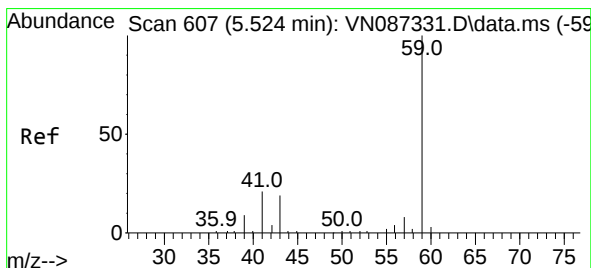
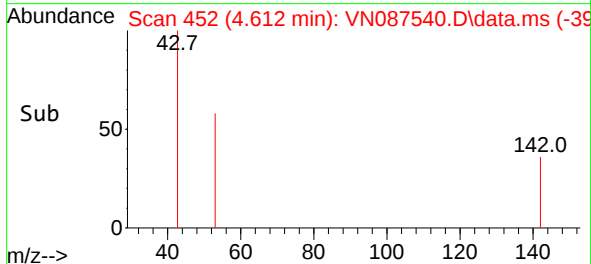
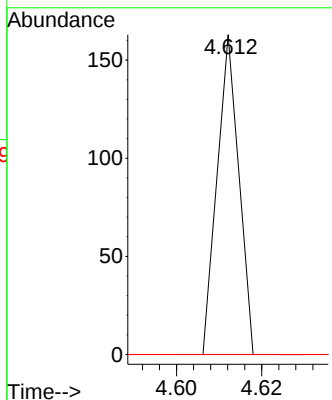


#10
Methyl Iodide
Concen: 5.652 ug/l
RT: 4.612 min Scan# 41
Delta R.T. 0.035 min
Lab File: VN087540.D
Acq: 13 Aug 2025 17:05

Instrument :
MSVOA_N
ClientSampleId :

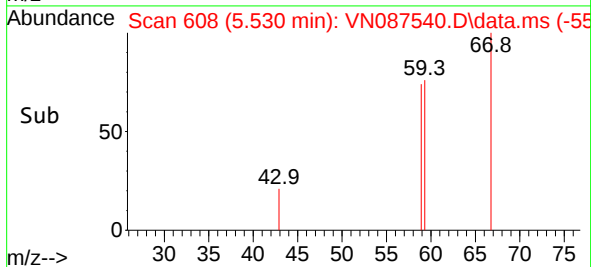
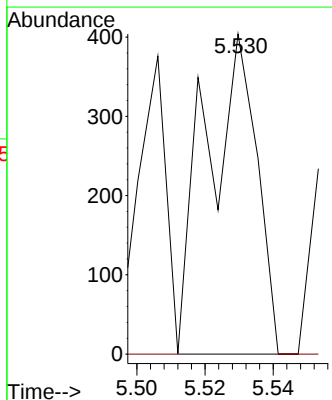
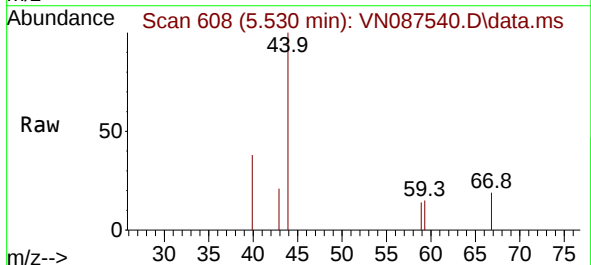


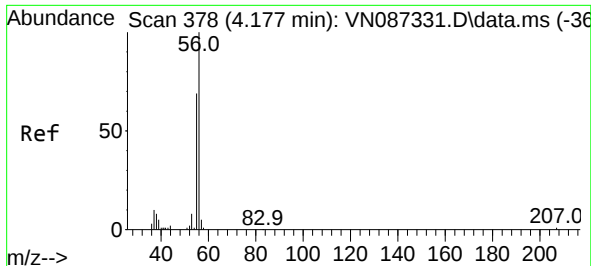
Tgt Ion:142 Resp: 58
Ion Ratio Lower Upper
142 100
127 0.0 35.7 53.5#
141 0.0 10.4 15.6#



#11
Tert butyl alcohol
Concen: 0.547 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.006 min
Lab File: VN087540.D
Acq: 13 Aug 2025 17:05

Tgt Ion: 59 Resp: 417
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

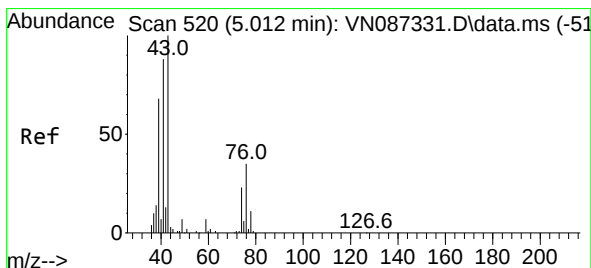
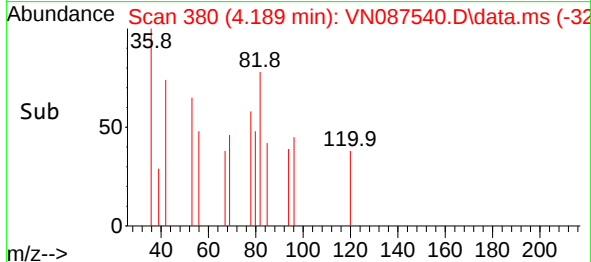
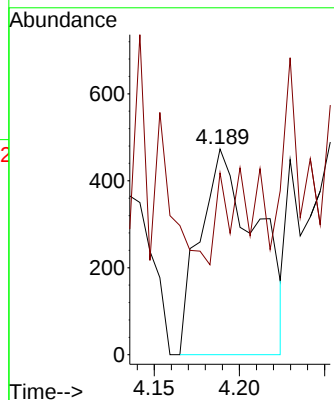
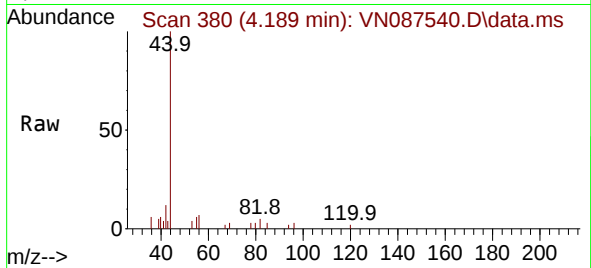




#13
Acrolein
Concen: 1.796 ug/l
RT: 4.189 min Scan# 31
Delta R.T. 0.012 min
Lab File: VN087540.D
Acq: 13 Aug 2025 17:05

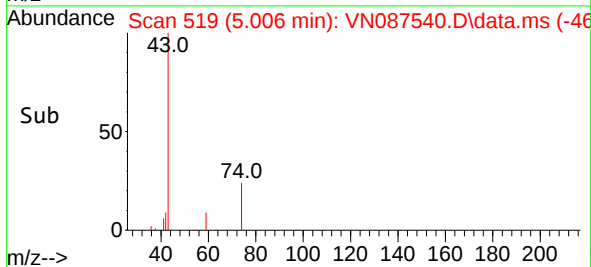
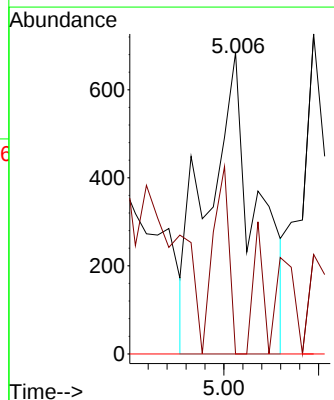
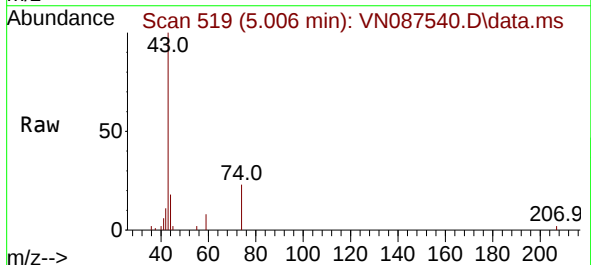
Instrument :
MSVOA_N
ClientSampleId :

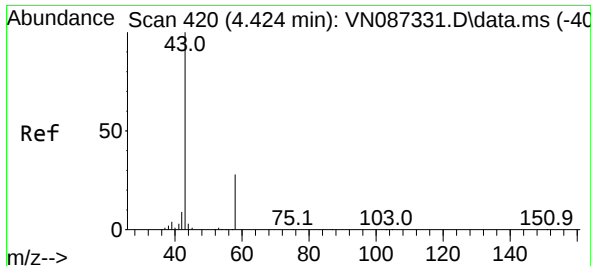
Tgt Ion: 56 Resp: 1100
Ion Ratio Lower Upper
56 100
55 18.4 56.2 84.4#



#14
Allyl chloride
Concen: 0.250 ug/l
RT: 5.006 min Scan# 519
Delta R.T. -0.006 min
Lab File: VN087540.D
Acq: 13 Aug 2025 17:05

Tgt Ion: 41 Resp: 1223
Ion Ratio Lower Upper
41 100
39 20.3 59.0 88.6#
76 0.0 28.7 43.1#

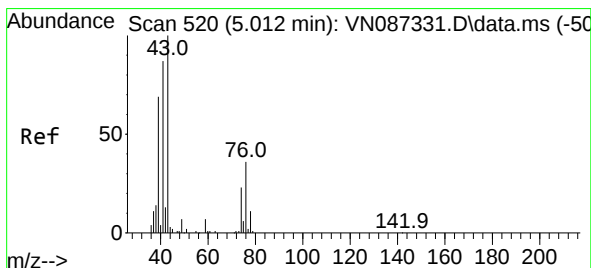
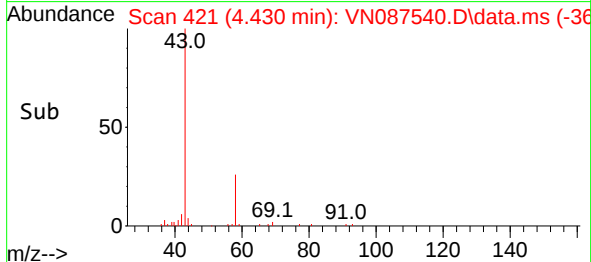
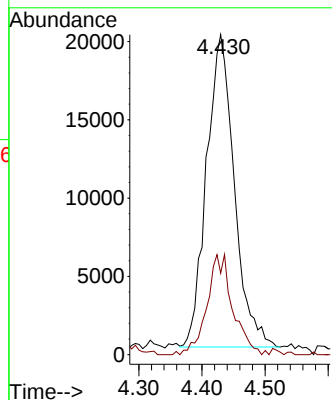
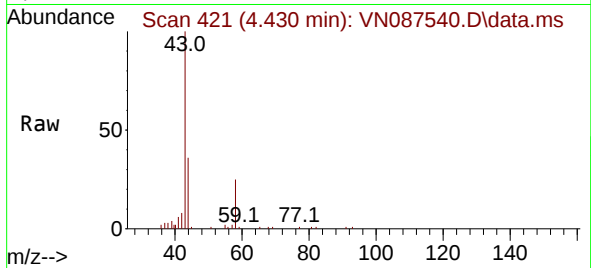




#16
Acetone
Concen: 32.388 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087540.D
Acq: 13 Aug 2025 17:05

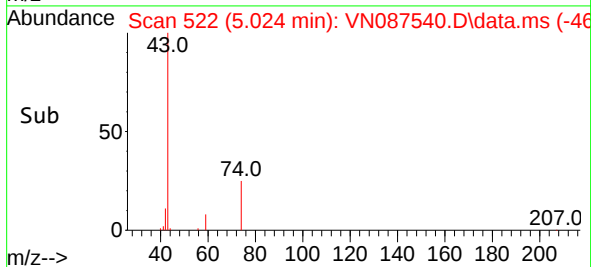
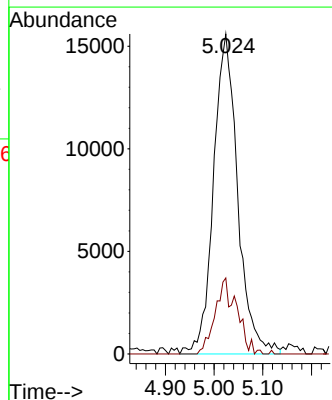
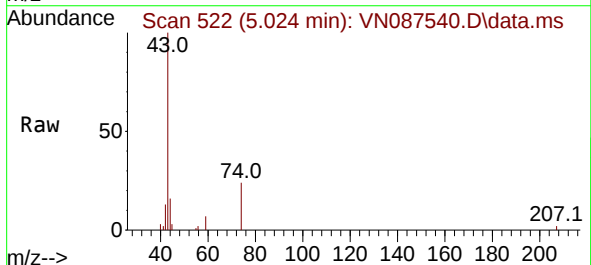
Instrument :
MSVOA_N
ClientSampleId :

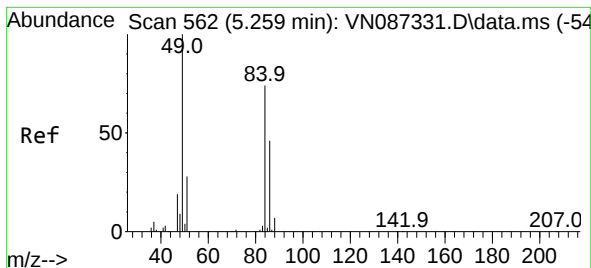
Tgt Ion: 43 Resp: 61023
Ion Ratio Lower Upper
43 100
58 26.1 22.3 33.5



#18
Methyl Acetate
Concen: 11.356 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.012 min
Lab File: VN087540.D
Acq: 13 Aug 2025 17:05

Tgt Ion: 43 Resp: 53755
Ion Ratio Lower Upper
43 100
74 21.2 17.8 26.6





#20

Methylene Chloride

Concen: 5.076 ug/l

RT: 5.265 min Scan# 5

Delta R.T. 0.006 min

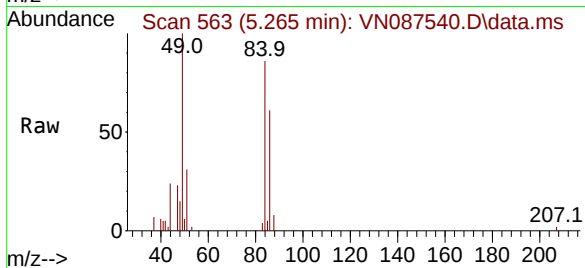
Lab File: VN087540.D

Acq: 13 Aug 2025 17:05

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 84 Resp: 18000

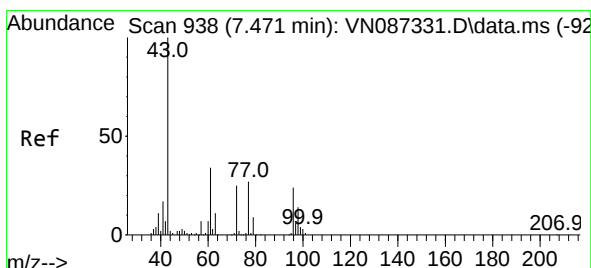
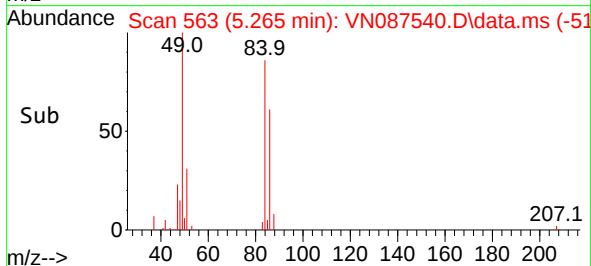
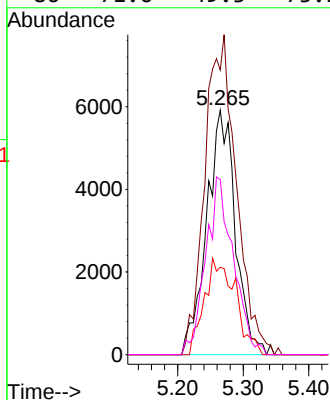
Ion Ratio Lower Upper

84 100

49 116.4 107.5 161.3

51 35.8 30.2 45.2

86 71.6 49.3 73.9



#25

2-Butanone

Concen: 4.439 ug/l

RT: 7.482 min Scan# 940

Delta R.T. 0.012 min

Lab File: VN087540.D

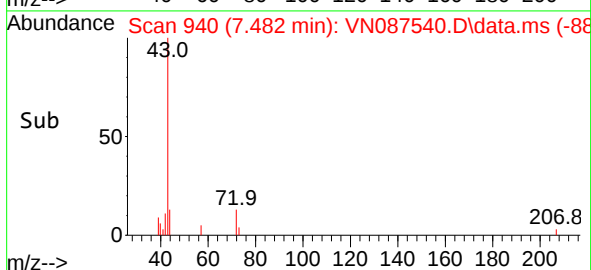
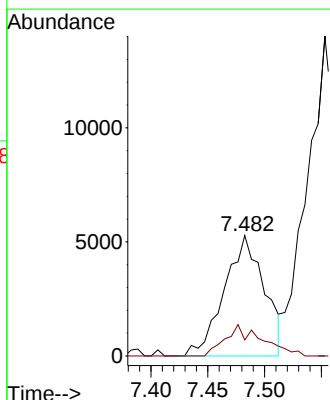
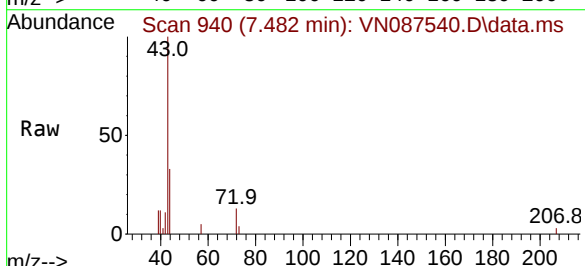
Acq: 13 Aug 2025 17:05

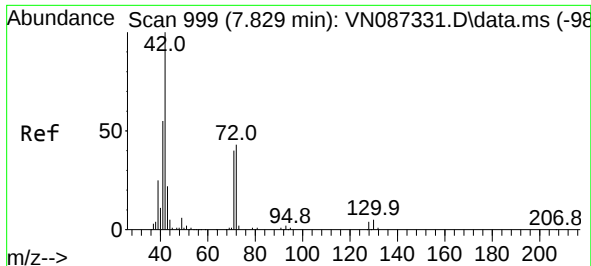
Tgt Ion: 43 Resp: 12924

Ion Ratio Lower Upper

43 100

72 13.2 19.6 29.4#





#29

Tetrahydrofuran

Concen: 2.193 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.012 min

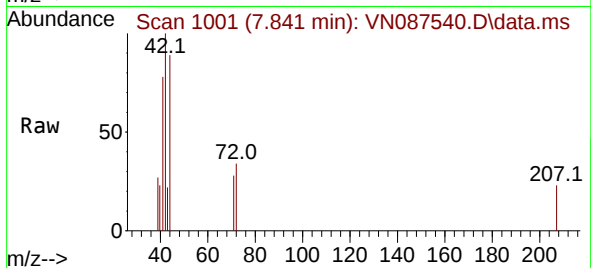
Lab File: VN087540.D

Acq: 13 Aug 2025 17:05

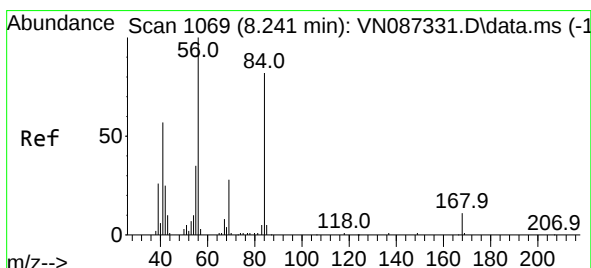
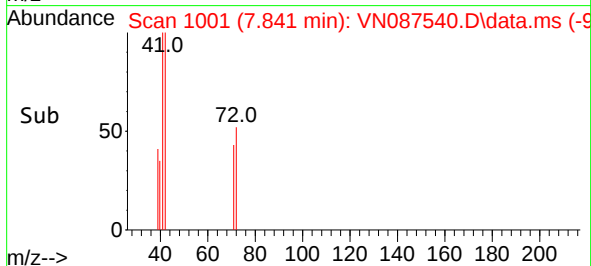
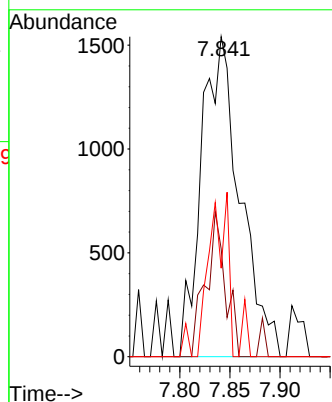
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	4147
Ion Ratio	100	Lower	Upper
42	100		
72	22.9	33.4	50.0#
71	23.7	31.2	46.8#



#31

Cyclohexane

Concen: 1.602 ug/l

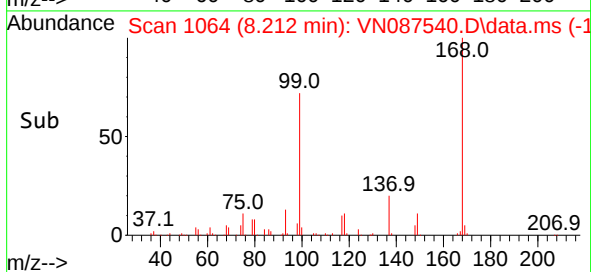
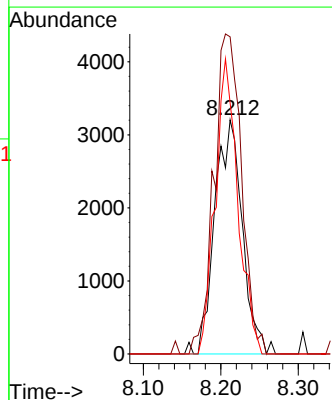
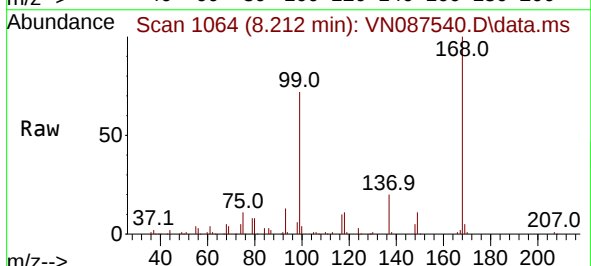
RT: 8.212 min Scan# 1064

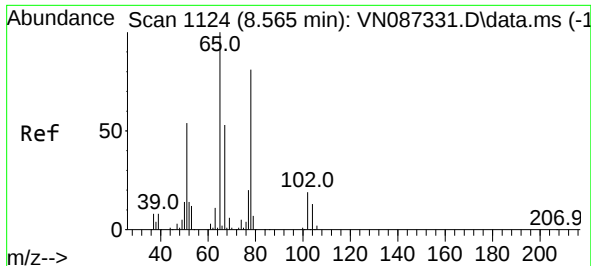
Delta R.T. -0.029 min

Lab File: VN087540.D

Acq: 13 Aug 2025 17:05

Tgt Ion:	56	Resp:	7912
Ion Ratio	100	Lower	Upper
56	100		
69	135.5	22.7	34.1#
84	107.2	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: VN087540.D

Acq: 13 Aug 2025 17:05

Instrument :

MSVOA_N

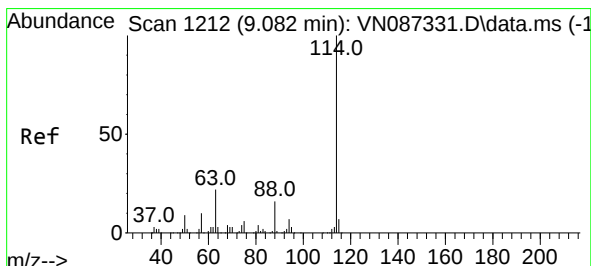
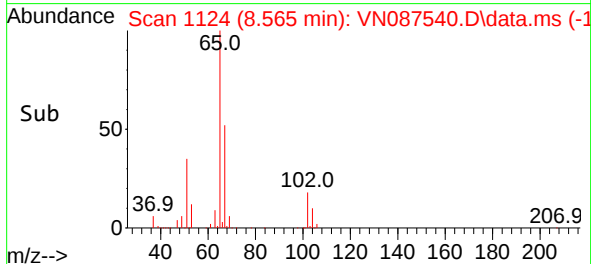
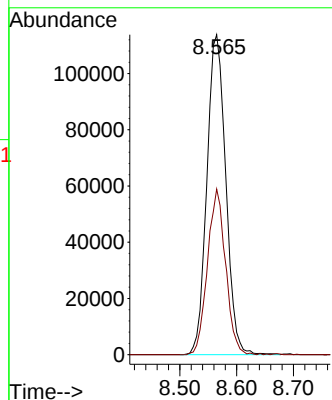
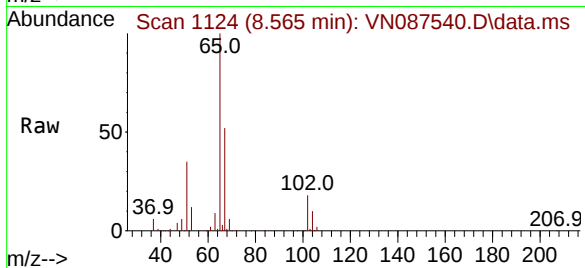
ClientSampleId :

Tgt Ion: 65 Resp: 262286

Ion Ratio Lower Upper

65 100

67 49.5 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: VN087540.D

Acq: 13 Aug 2025 17:05

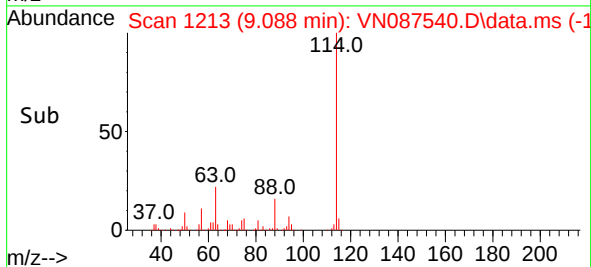
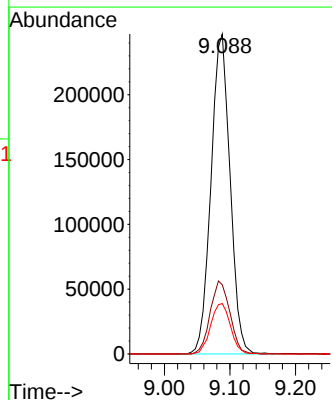
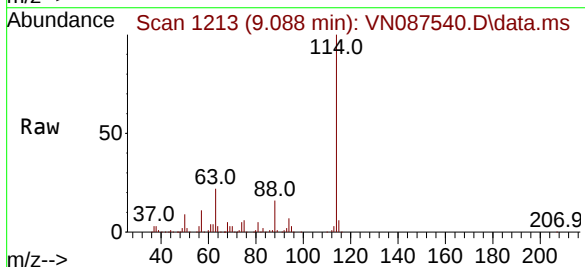
Tgt Ion: 114 Resp: 497884

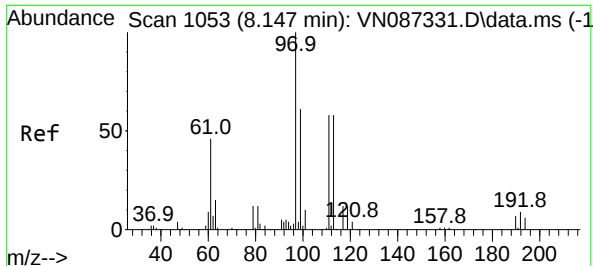
Ion Ratio Lower Upper

114 100

63 21.6 0.0 44.6

88 15.8 0.0 32.8





#35

Dibromofluoromethane

Concen: 50.440 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087540.D

Acq: 13 Aug 2025 17:05

Instrument :

MSVOA_N

ClientSampleId :

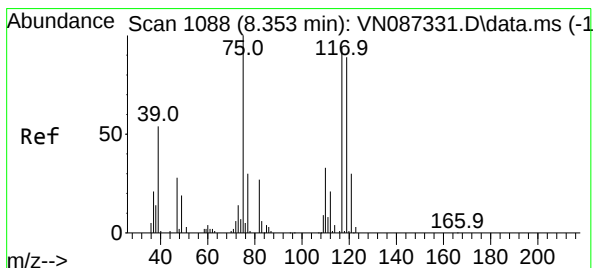
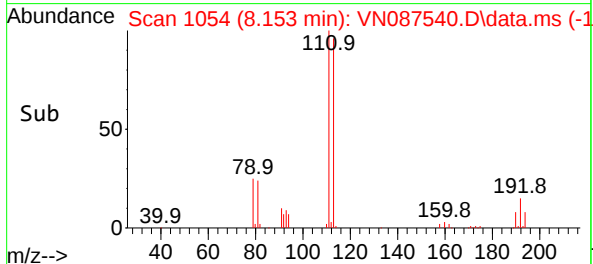
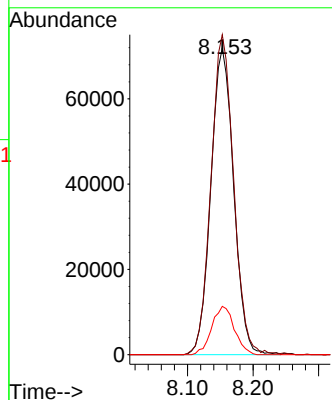
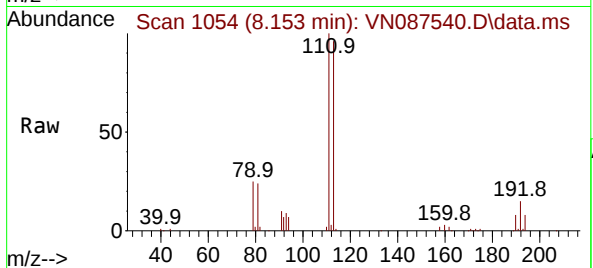
Tgt Ion:113 Resp: 173231

Ion Ratio Lower Upper

113 100

111 103.8 82.5 123.7

192 15.7 13.7 20.5



#36

1,1-Dichloropropene

Concen: 5.239 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.141 min

Lab File: VN087540.D

Acq: 13 Aug 2025 17:05

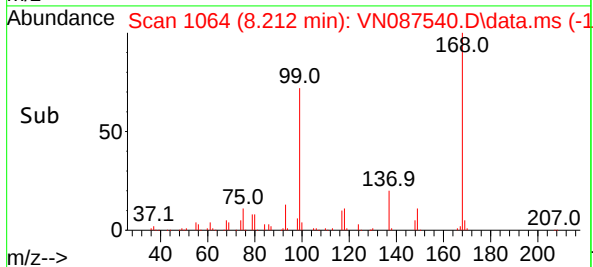
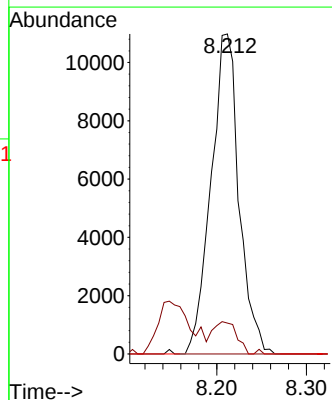
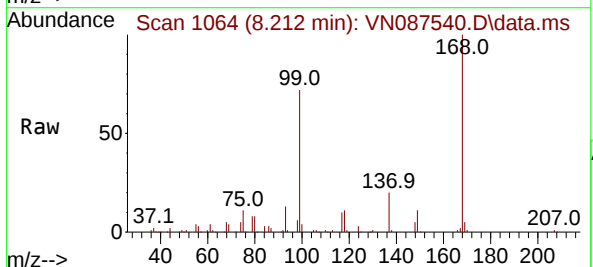
Tgt Ion: 75 Resp: 23770

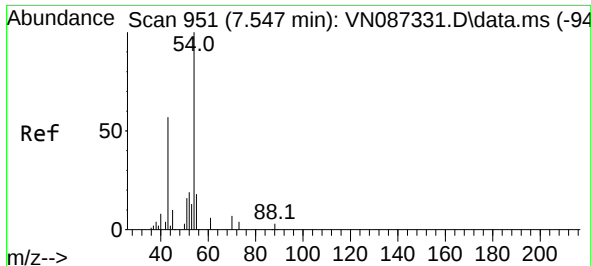
Ion Ratio Lower Upper

75 100

110 8.6 16.7 50.1#

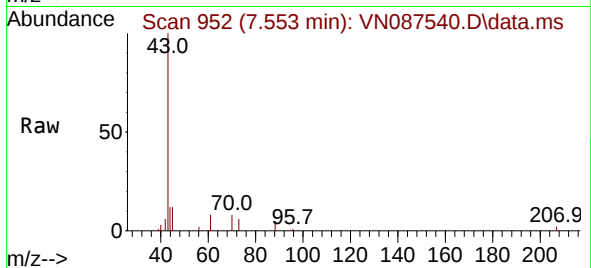
77 0.0 25.2 37.8#



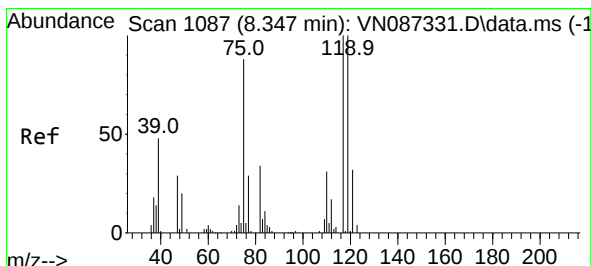
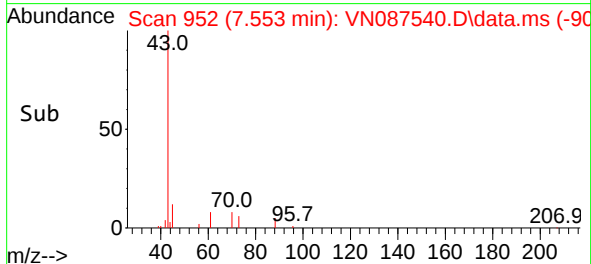
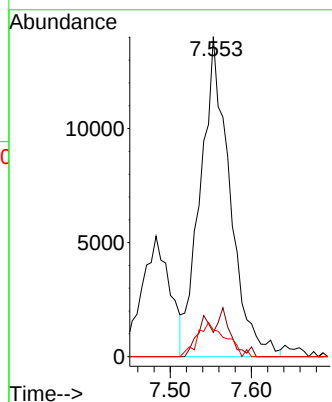


#37
Ethyl Acetate
Concen: 5.364 ug/l
RT: 7.553 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087540.D
Acq: 13 Aug 2025 17:05

Instrument :
MSVOA_N
ClientSampleId :

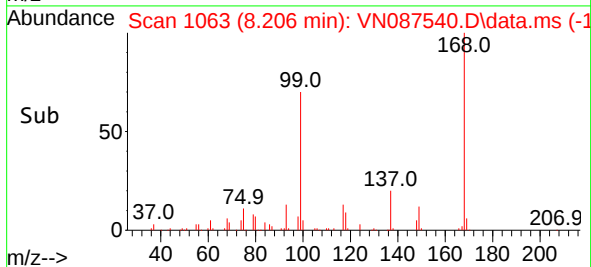
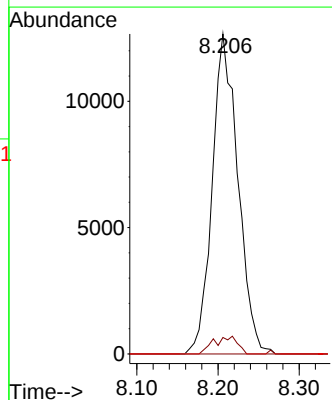
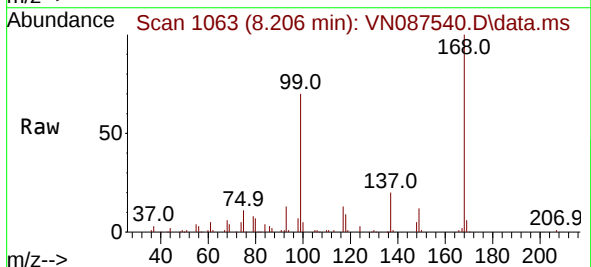


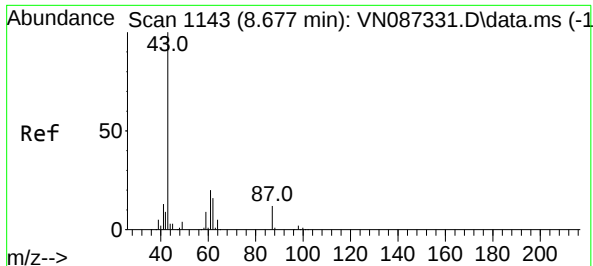
Tgt Ion: 43 Resp: 35149
Ion Ratio Lower Upper
43 100
61 6.5 10.9 16.3#
70 10.3 7.4 11.0



#38
Carbon Tetrachloride
Concen: 5.571 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.141 min
Lab File: VN087540.D
Acq: 13 Aug 2025 17:05

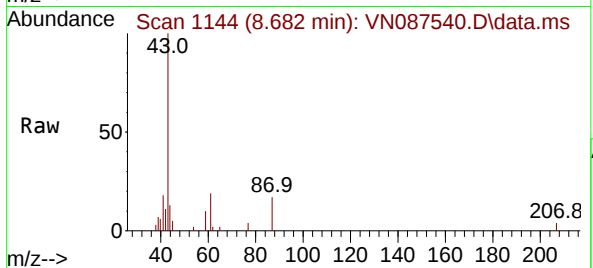
Tgt Ion: 117 Resp: 27847
Ion Ratio Lower Upper
117 100
119 5.1 80.2 120.2#
121 0.0 25.4 38.2#



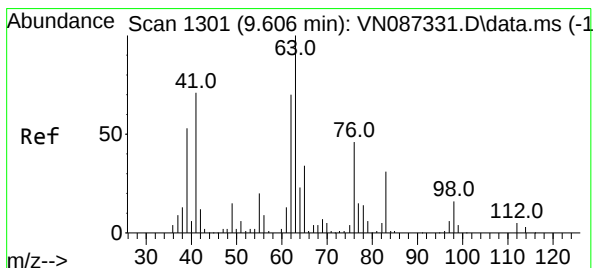
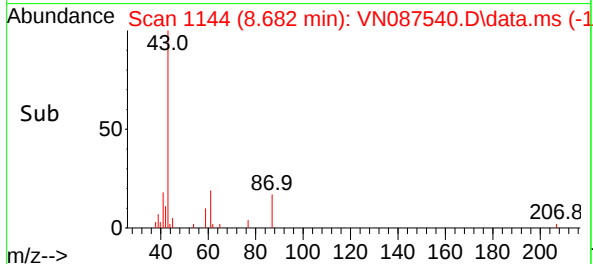
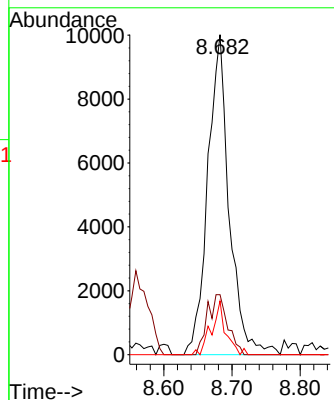


#43
Isopropyl Acetate
Concen: 2.153 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. 0.005 min
Lab File: VN087540.D
Acq: 13 Aug 2025 17:05

Instrument :
MSVOA_N
ClientSampleId :

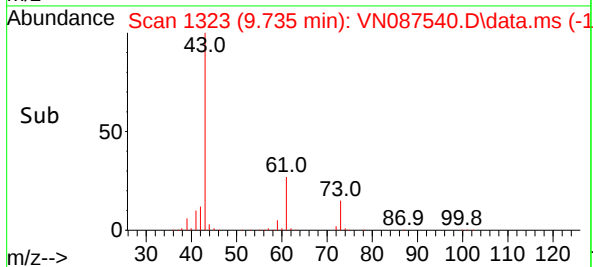
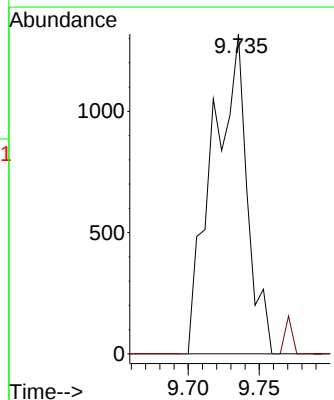
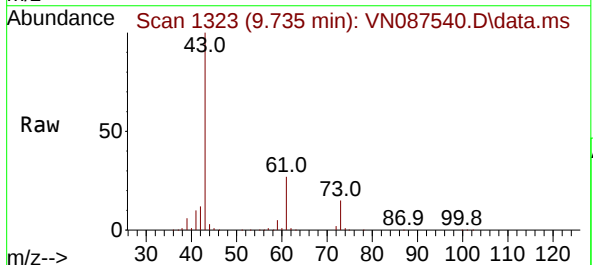


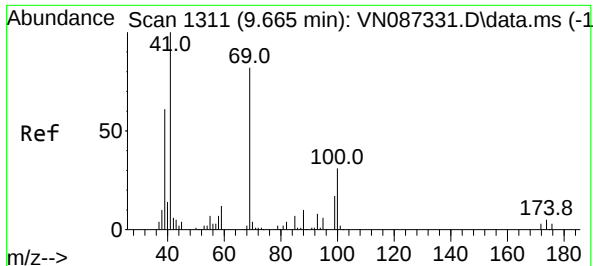
Tgt Ion: 43 Resp: 21906
Ion Ratio Lower Upper
43 100
61 17.8 19.8 29.8#
87 11.2 9.8 14.6



#45
1,2-Dichloropropane
Concen: 0.600 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.129 min
Lab File: VN087540.D
Acq: 13 Aug 2025 17:05

Tgt Ion: 63 Resp: 2235
Ion Ratio Lower Upper
63 100
65 0.0 27.0 40.4#





#48

Methyl methacrylate

Concen: 39.301 ug/l

RT: 9.729 min Scan# 1322

Delta R.T. 0.065 min

Lab File: VN087540.D

Acq: 13 Aug 2025 17:05

Instrument :

MSVOA_N

ClientSampleId :

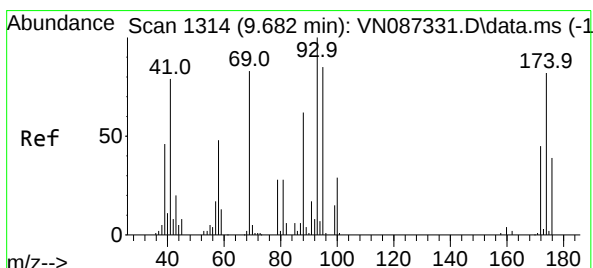
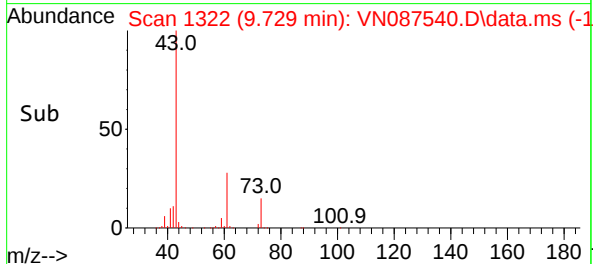
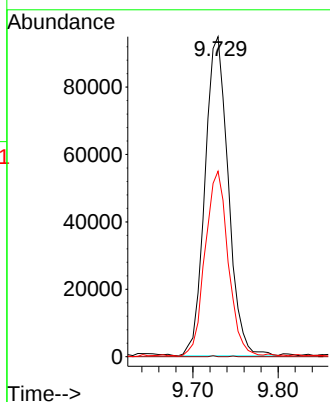
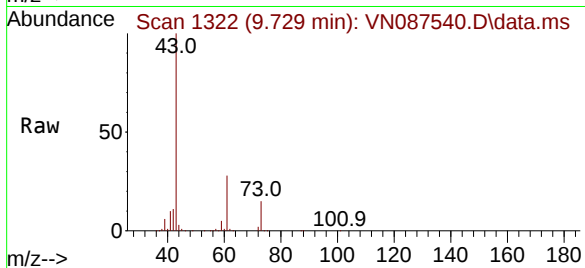
Tgt Ion: 41 Resp: 179985

Ion Ratio Lower Upper

41 100

69 0.1 64.1 96.1#

39 57.3 45.5 68.3



#49

1,4-Dioxane

Concen: 3.707 ug/l

RT: 9.729 min Scan# 1322

Delta R.T. 0.047 min

Lab File: VN087540.D

Acq: 13 Aug 2025 17:05

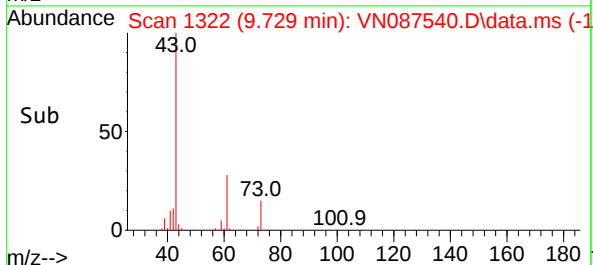
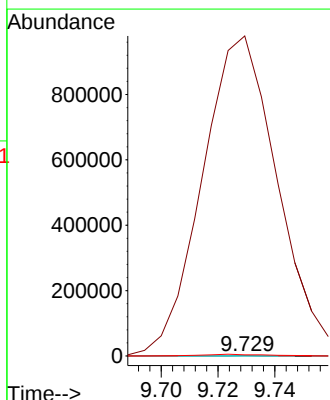
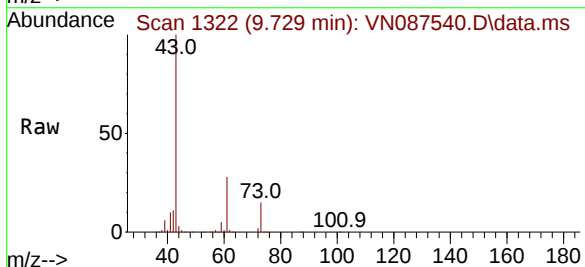
Tgt Ion: 88 Resp: 260

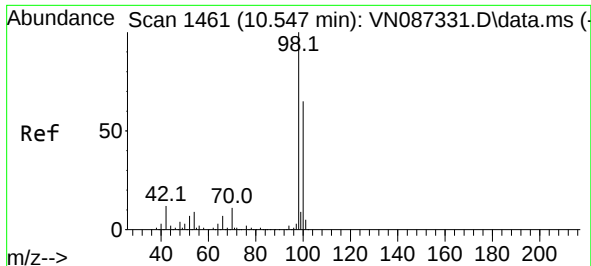
Ion Ratio Lower Upper

88 100

43 705974.2 0.0 0.0#

58 3279.2 61.1 91.7#

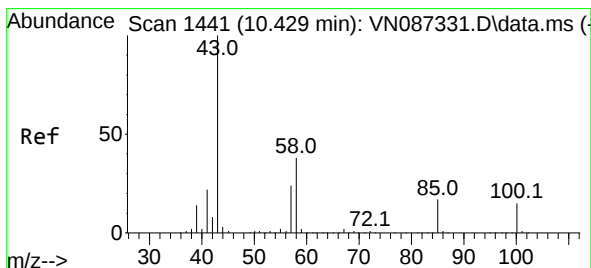
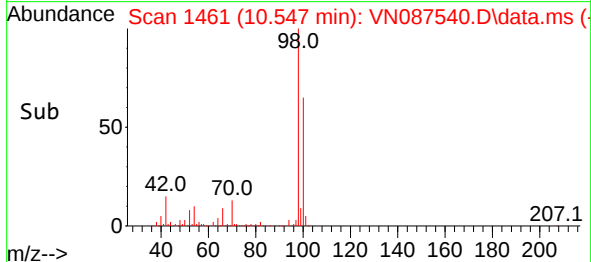
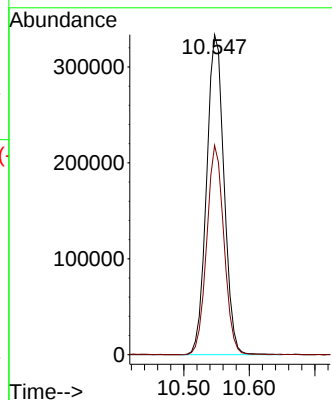
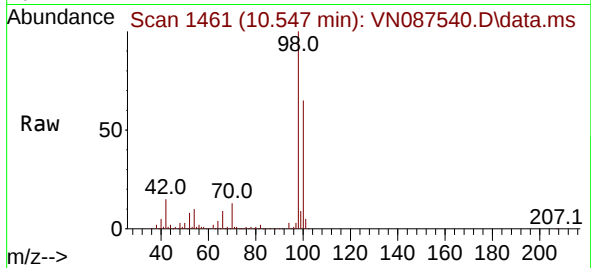




#50
Toluene-d8
Concen: 50.331 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087540.D
Acq: 13 Aug 2025 17:05

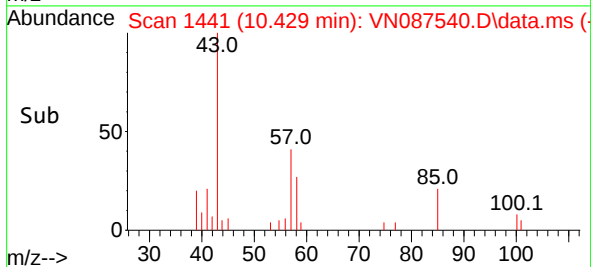
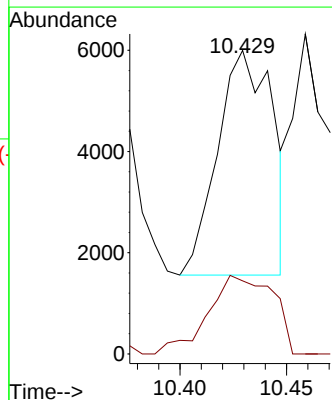
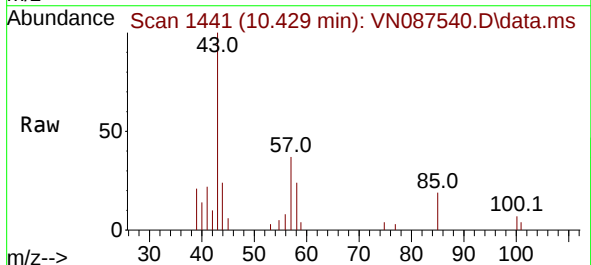
Instrument :
MSVOA_N
ClientSampleId :

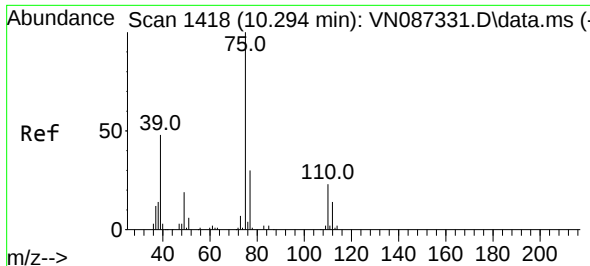
Tgt Ion: 98 Resp: 616603
Ion Ratio Lower Upper
98 100
100 64.7 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 1.242 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.000 min
Lab File: VN087540.D
Acq: 13 Aug 2025 17:05

Tgt Ion: 43 Resp: 7988
Ion Ratio Lower Upper
43 100
58 41.2 30.8 46.2

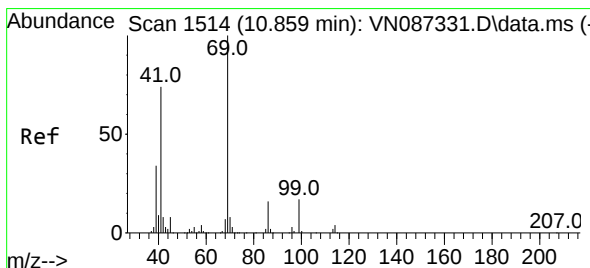
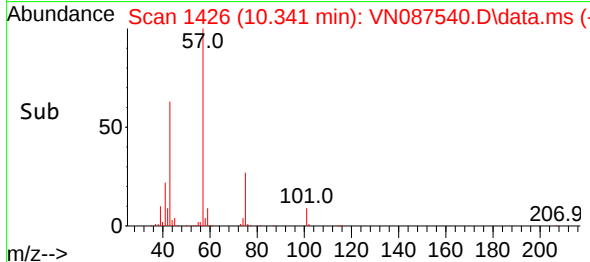
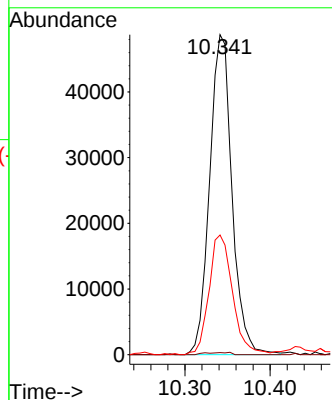
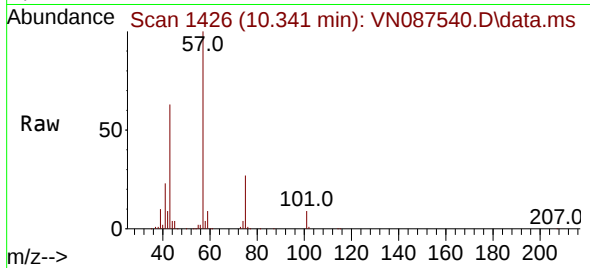




#54
 cis-1,3-Dichloropropene
 Concen: 15.162 ug/l
 RT: 10.341 min Scan# 1418
 Delta R.T. 0.047 min
 Lab File: VN087540.D
 Acq: 13 Aug 2025 17:05

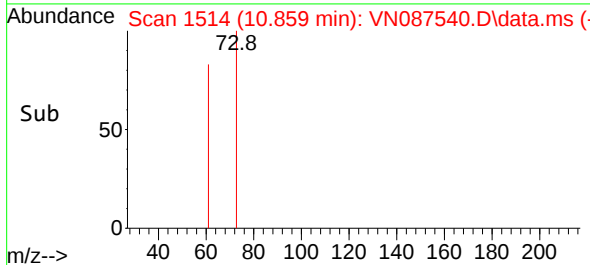
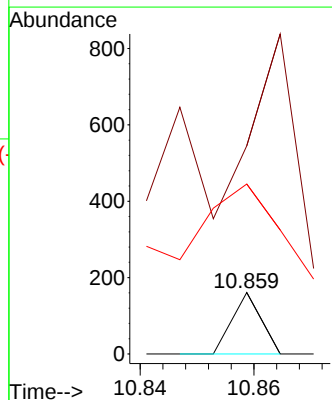
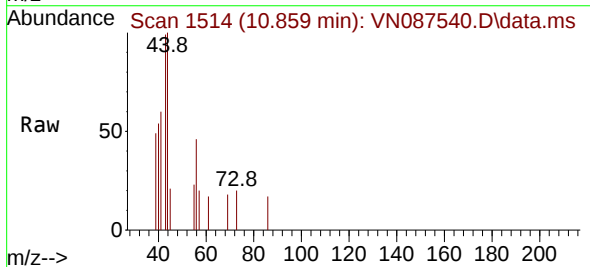
Instrument :
 MSVOA_N
 ClientSampleId :

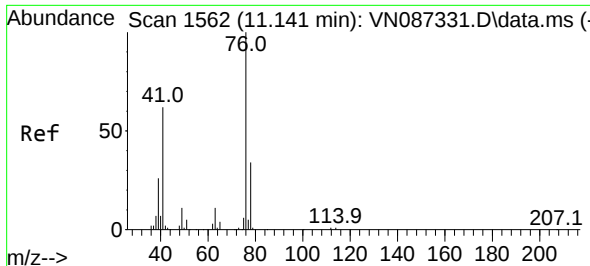
Tgt Ion: 75 Resp: 89074
 Ion Ratio Lower Upper
 75 100
 77 0.6 24.2 36.2#
 39 37.4 38.4 57.6#



#56
 Ethyl methacrylate
 Concen: 0.644 ug/l
 RT: 10.859 min Scan# 1514
 Delta R.T. -0.000 min
 Lab File: VN087540.D
 Acq: 13 Aug 2025 17:05

Tgt Ion: 69 Resp: 57
 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: 0.791 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.047 min

Lab File: VN087540.D

Acq: 13 Aug 2025 17:05

Instrument :

MSVOA_N

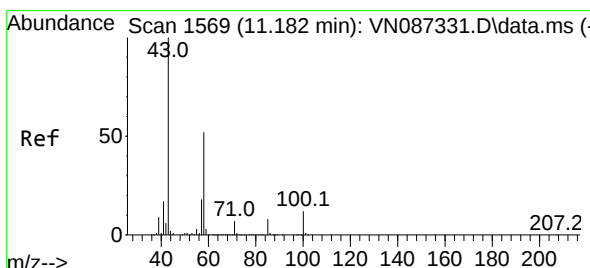
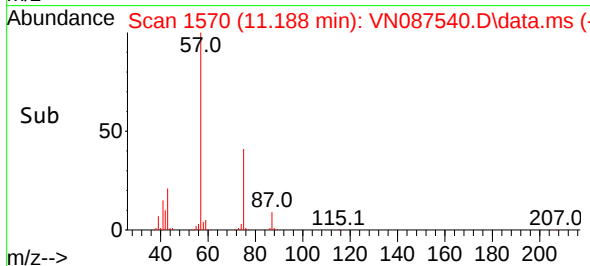
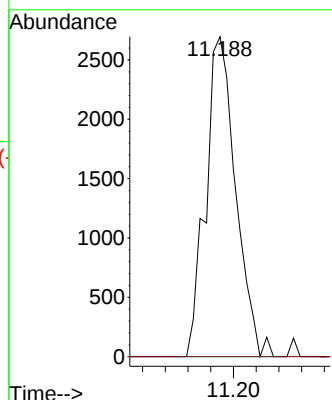
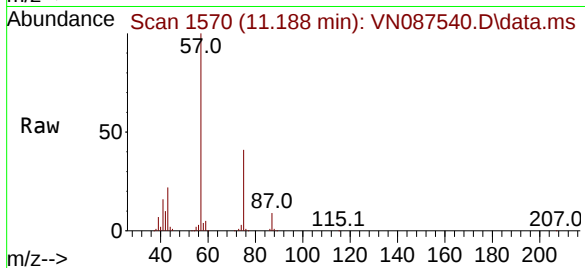
ClientSampleId :

Tgt Ion: 76 Resp: 4934

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#



#59

2-Hexanone

Concen: 23.021 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.006 min

Lab File: VN087540.D

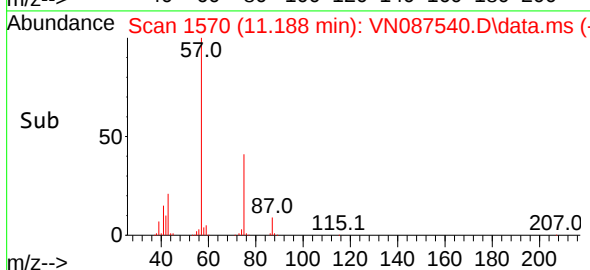
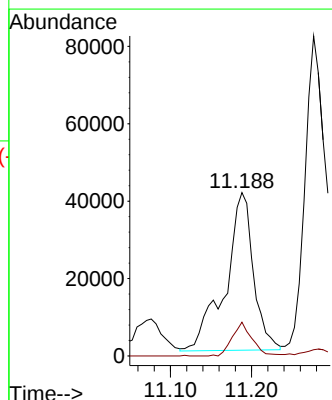
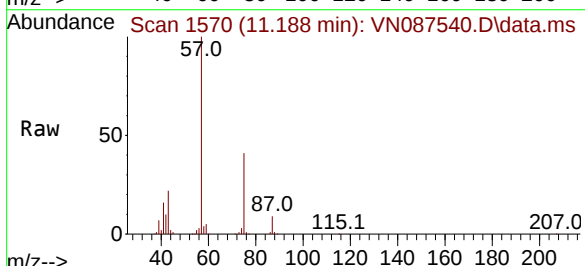
Acq: 13 Aug 2025 17:05

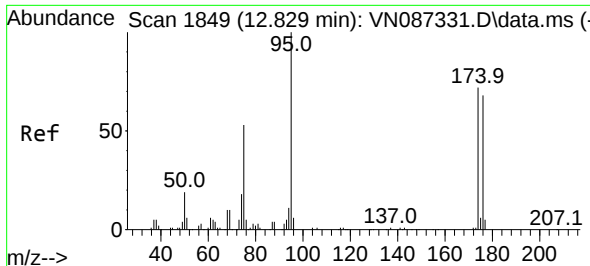
Tgt Ion: 43 Resp: 98269

Ion Ratio Lower Upper

43 100

58 15.2 26.7 80.0#

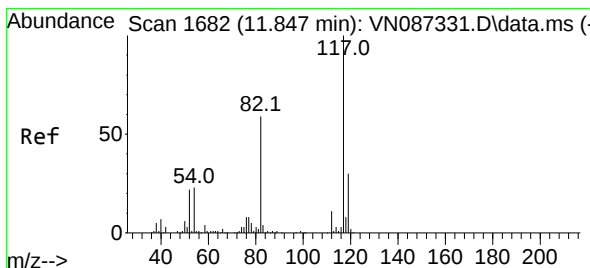
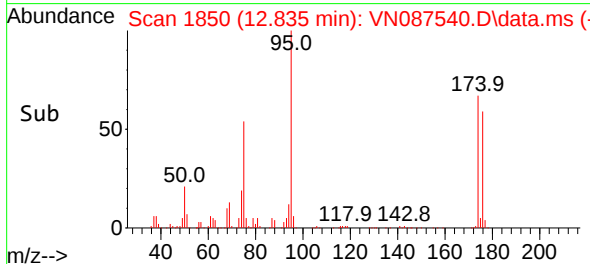
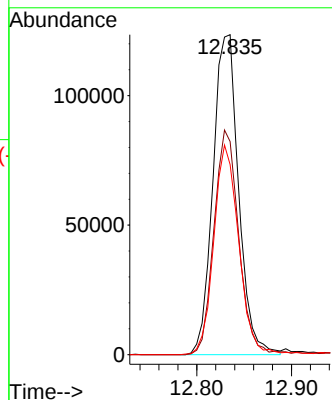
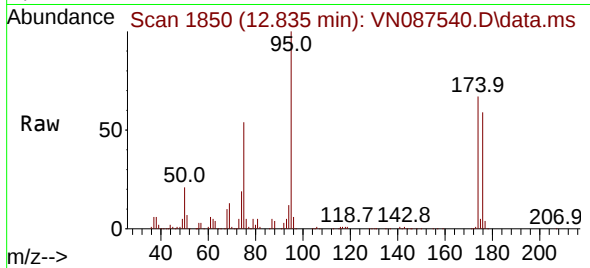




#62
4-Bromofluorobenzene
Concen: 51.398 ug/l
RT: 12.835 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087540.D
Acq: 13 Aug 2025 17:05

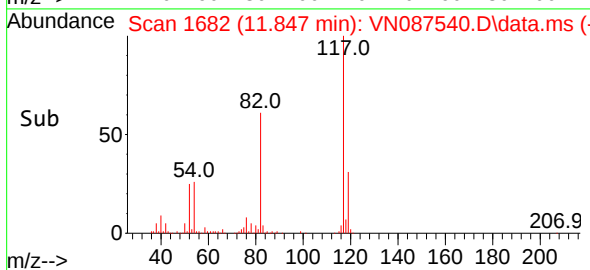
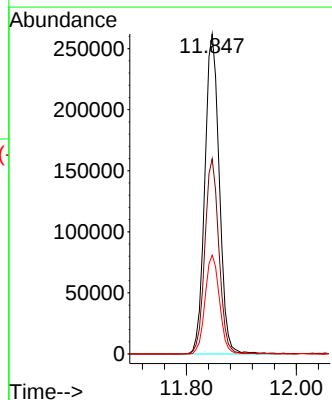
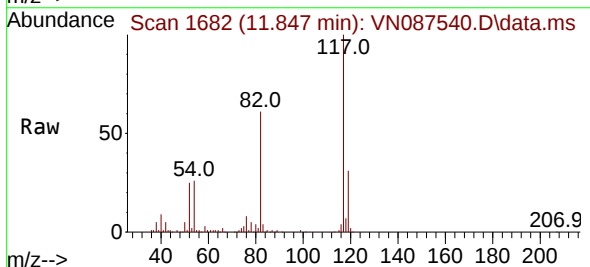
Instrument :
MSVOA_N
ClientSampleId :

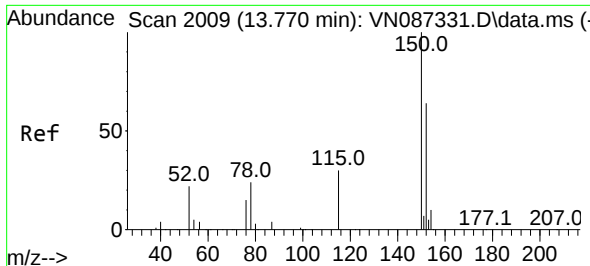
Tgt Ion: 95 Resp: 232636
Ion Ratio Lower Upper
95 100
174 68.2 0.0 149.4
176 64.0 0.0 141.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VN087540.D
Acq: 13 Aug 2025 17:05

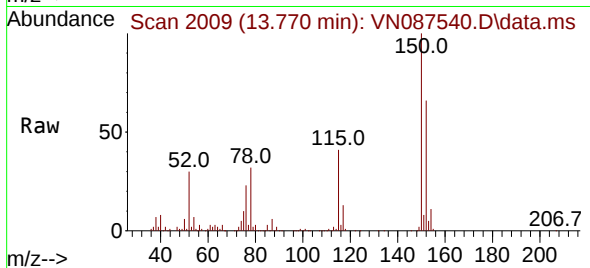
Tgt Ion: 117 Resp: 479659
Ion Ratio Lower Upper
117 100
82 61.0 47.4 71.2
119 30.9 23.8 35.8



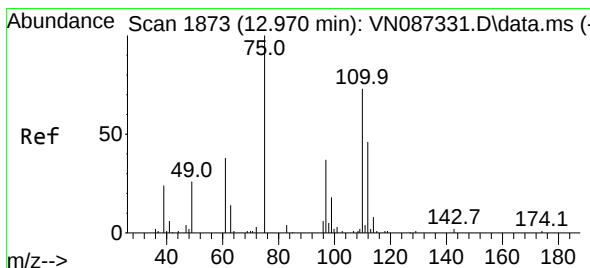
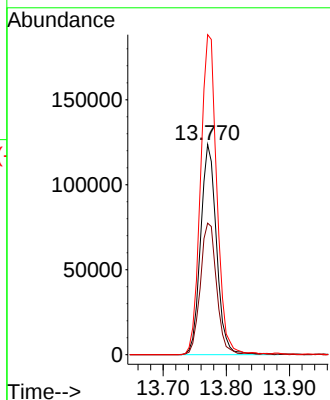
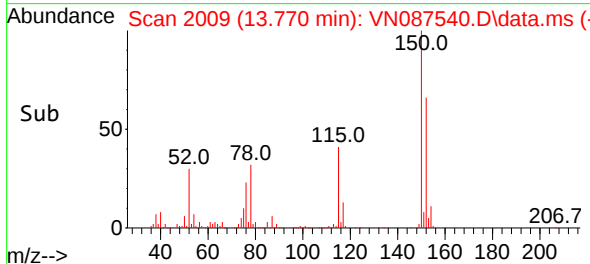


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN087540.D
Acq: 13 Aug 2025 17:05

Instrument :
MSVOA_N
ClientSampleId :

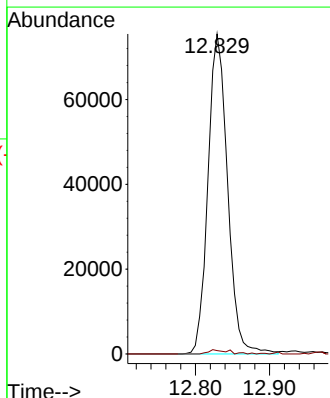
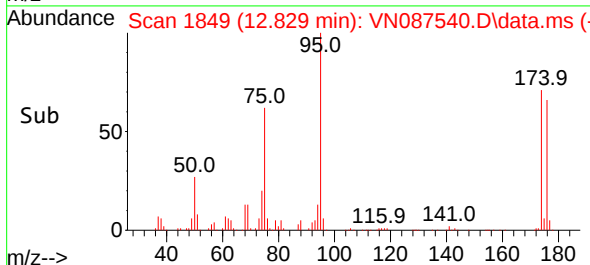
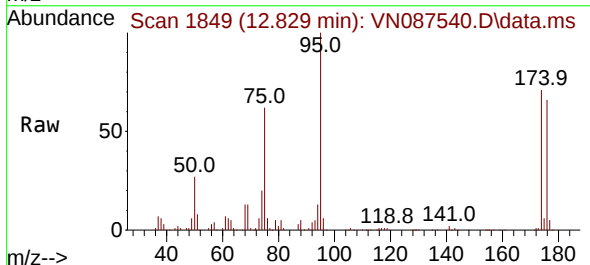


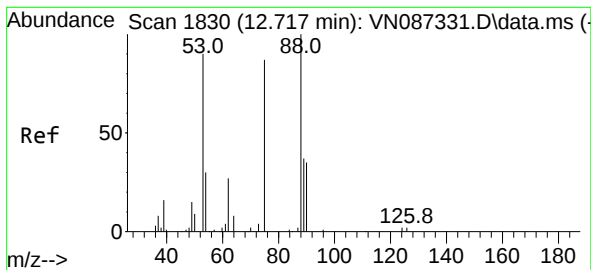
Tgt Ion:152 Resp: 216762
Ion Ratio Lower Upper
152 100
115 63.6 31.1 93.5
150 155.4 0.0 349.0



#76
1,2,3-Trichloropropane
Concen: 28.534 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087540.D
Acq: 13 Aug 2025 17:05

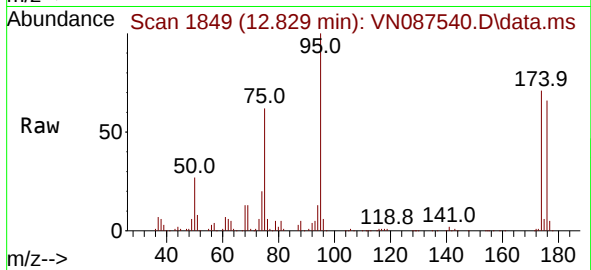
Tgt Ion: 75 Resp: 138696
Ion Ratio Lower Upper
75 100
77 1.3 94.5 283.6#





#81
trans-1,4-Dichloro-2-butene
Concen: 78.074 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN087540.D
Acq: 13 Aug 2025 17:05

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 138696
Ion Ratio Lower Upper
75 100
53 0.0 83.5 125.3#
89 0.3 38.4 57.6#

